# ARGOSY <br> HOW TO STEAL \$8,000,000 A YEAR <br> The Inside Story of the U. S. Army's Biggest Swindle 

The Complete Man's Magazine - November 25c by mike stern



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ability again" .
H.A.R.

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I. C. S., Scranton 9, Penna.

## IHTERHATIOMAL CORRESPONDENGE SGHOOLS

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I．ATHER or BRUSHLESS

## Oldopice



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## NOVEMEER， 1954 HENRY STEEGER，Publisher

ARGOSY
THE COMPLETE MAN＇S MAGAZINE

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## CONTENTS


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WOLUME 3 3

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CHANGE OF ADGRESS：PQSTMASTER－Plegse mail Farm 3579 natices io Popular Pualicotions，Inc．，20S East aznd 5t．New York 17，N．Y．
ARGOSY is putished once a monh by Popular Publications．Inc．，at MeCail stree Dayton h．Omio．Extculdve． Mcthrish．Ty easurer Entered as second－ciass matter at the post office ar Dhytum．Ohio．Authorfzed as second－
 This iskue is yublished simultaneoust in the Dominfon of Cumuda Copyrimht under Internathonal Copsright







6 WE'RE LOOKING FOR PEOPLE
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## WOOLRICH WOOLEN MILLS WOOLRICH, PENNA

# BACK TALK 

205 EAST 42nd STREET, NEW YORK 17, N. Y.

## THE CASE OF

THE HUSHED.UP BURGLAR ALARMS
Exouse my interior pemmanship but I am sall boiline over the fable in your Juty issue by Cerald Kersh. "The Immusible Rubbery," It is either a cmaplete fahrication, or Mr. Kersh has his personal wires crosed.
The story semed probalite antil II tame across hise line. "It wecurred that if I could get at the cailes hat ferd plectricity the the Jewel Rom in the Tower of tombon, all thase protective electrical gadgels would be so math old irmo. and alt that marvelossly intricate syetem of wires su mueh old rope." Fur Mr. K's information. that old iron and rope lampens la include a battery stand-by for just =uch a situattion as be dreamed uptimely, in case the nutside puwer cables were cut. Hand the anlour uadertaken lis impossible sobbery as nutlined, he would still be serving time in an English prisom.

1. E. Cumancaam. Jie.

Chicages. 111.

- Her, tho. considered jubutons this story of the impossible robbery, erem as did uthar Kersh. This is athy it was listed on the contents pane for fuly under Fiction.


## $\$ 5,000$ REWARDI

Go back to the May issue. which mily recenty got to me in Japan. "I Sailed Acruss the Athutic in 6.5 Days- Without Fuod or Water" is just a bucket of sea water. Mr. Editur.
The Frenchman whe wrote that proble ably had a leet with another Parisile shat the Americans will hey anything. Ambl he wen.
It is a finment of his imatiablan and 1 doubt if the author can luke a compase reading. murlo less fand his presitions by sextunt. The whele thing smell:-fishyand tew of us bere lielieve it whs even writen by Dr. Bemburd. Fid Ioe ylad to list my reasons fur tisbelieving sucts of viuns-bunk. but the list is tro loang for this tetter.

Stic. Lumell C. Cuftrik DPO S03. Yukahama. Japan

- This one tre offerved to thimking retedres as a fact artiche. Sarge. you ammer ws so with your stteephing doubts. miml sirice it
twould reguire so much spmee to list unr proof, we'll just anster you this way: If you ur anyone whe can disprone the hasic facts contained in Dr. Bonbard's story in the May issuc, whirh was publisherl in w Simon \& Schuster book. then ywe or the
 from the publishers of Ancosx.


## WRITER'S REYENGE

Years agy I wrote a nuvplette. pulilislued by Aucosy; in the course of the story there was a poker game wheretils Gur aces came up against a rodal hasll. This abvious impossilibity, involving tun many aces in ane teal. altheng a mirn incident in the novelette. cansed ane to hear plentifully and lengthily from warinus stulscribers.

I have heen laying far a return armgatgensut ever since. and think the Jally cuver uf Amosy gives ate sumathing: Here are thre farsomen. Ope of them silys. "He"s agoin" thataway!" And wnum at the mum. Newl une says "He"* agnin" thisaway!" Amit shonte at the Vorth Slur And the third one with life rifle plowe a chipmonk that is sueaking al Inehim? with bland in its eye. Never liave 1 -ers so much action getting nuwhere.

James M. Hexmerson
Fhorence. Ore.

- Dear Cold-Deck fine: That stalj is called Artistic Linense. Writers, ithorits. untely, hure never thought up a gimmichi to allow them to get away widh thoir immginulive crrors.


## MORE APESWEAT

I. allowed my 16 year-old sum tos sumscribe tu Abcosy. Teeling the manculime articles und gand clean sutdonir stortes to be gaod for character uphailaing. Im canceling lis subiseripum leranere of:

1. "Tukya"; Bigyest Induatry: Stex." (Jaty).

2. "Apesweat." drama of flozle \{in. 쏘옹.
The details of sex-furwiz can ertainly lee kegt in the hackground- onpocially photus showing the nearty-tuate actims nf kits. . . As a sudent of pexchathary. I know this mbly atrads the exil.


Please ennsider my appeal-for-guod, and see what you can do to improve this situatien.

Mrs. Thomas Jones Marysville. Wash.
P.S.-Dear editor, do you want to be guilty of helping to promote evil or of helping to curlu it?

- Guilty either way, eh? Madame Professor Jones, it appears you may have opportunity to upbuild a rare son. one who knoweth not the existence of sin. I/, however, you would care to substitute gambling for the more pleasant forms of sin, we will bet you at nice odds that the boy finds out somehou.

I am sick. sick. SICK of seeing articles about our bitching, mouning. griping Gls clutlering up magazines, taking space therwise used for enjoyable reading. See August issue, "They Call It Apesweat."

Before the howls of the "old-rimers" drown me out. Jet 'em know that I served my share of time in Uncle's sobbing service-four years. During which I developed an extreme dislike fur my carping. bellyaching service companions, most of them old-timers who couldn't be blastef out of the Army with dynamite. I accepted my discharge papers with such

gleeful exuberance because of a high hope that never again would I listen to or look at a seething mob of bitching boys in blue. I was in the Air Force.

Charles Collafr
Norton, Kan.

## OLD DENSINORE UNEARTHED!

In May Back Talk you answered a genleman in Minnesota by saying (as he had an ancient ouboard motor). "Shake hands . We have the oldest typewriter." This wuthd indicate to me you have an old typewriter. I own a typewriter that was used by the local banker before the year 1900. It's brand name is Densinore. On it is this inscription: Clean the Machinr Daily.
No. Rubbing the Polished Parts 1 Fith an Oiled Cloh
No other plates or maker's mark. This machine seems close to sixty years old. Thought you might lie interested in it as a collector's item. If so, yous can have itfor a ewo-year subscription to Arcosy.

Russelz R. Hanson Latimer. Ia. (Continued on page 8)

## Fastest Fighter on Four Legs!



Hindus train the cheetah to hunt antelopes-but only because cercain inborn qualities give it remarkable speed, power and fighting instinct.

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Ken Pbots. Arooss's new editor at right is well-known as an athority and writer on himh-performance rars. At left is Tom Vanghon, new pxpentive editor.

## MEET THE NEW EDITOR

## BY HARRY STEEGER

BIG, news lhis monilat Algosy Itals a new pitiol on the bridge. Kien Wi. l'urdy takte the editorial hotm wish the curven iswe. Many bl you probahly know him from his magazize asticles and books. ath well ats from this carrer as an ratitor.

Hore"s sleal Mr, P'urdy has bean duiny for the past


Afor studyine al the University of Wisomsim. 1931 易t. hr went into newelraper work. pounding as typuriter for vartots Massarhusulls and Wisconsin publishare from 1931 to 19:3s. He was aditer of The Free Press. Oshkosh. Wisconsisia in 19:30.
 He started as assorbate editor on "hadio Cuide" and in rapind staceswiun adranted to associalte *ditor" "Clirk" in 19:37. Lo mantegiag editor of "Radio Diges" in $19: 39$, to associate" "ditor uI "Lank" int 1939-11. to aditur of "Victory." Offer of War [nfomation. 1941-4.5. The cireulation of "Vichory" "as more than 1.006000 copies in nime languages, 11 was consitherd the moss surcussfal propaganda pethitation on the Allied side.

At the condusion of the war he was mide beditor of the weekfy "Parade" and duriner tue years 1916-49 helped buald on of the largest eirculation gatins ever registered by an Amprican puthlication: 2.850 .000 to $5.200,090$.

From Mareh 1949 to dater he was editor of "True."
In addition to his editorial duties, le has manaued to squewe in time for ficlion and arlictes in "Collier"s." "The American Magazine," "Scributer"s," "Liberty," "Cosmopolitan." "Reader's Digest," and many others. He is an
aulturity on I wo subjects as diverse from eath other as the caltillon and high-periormance $\{$ sports! automobilas. He has protwhly whitten more on the latter subject than any methe Amertwas author. His book on cars. "Kings of the Roall." puldished by Litlle. Brown and Company: wats the lirst book on automohiles to le issued by a gernatiat publishing company in many years. At the prosent time your "an find a Pockut Book he wrote and a new hook he has douns in confunclion with James Multon on the look stands, "Bripht Wherls Rolling." which has bern published by Mis-ras Smith.

Harold hoss the famous velitor of "The New Yorker" mugazines. oner said that Ken ipurdy was the most hriliant young editor in llis country.

$A^{1}$BCOSY also noles with pride the surcessful rulmination of is campaign to help save the famous frigate. Coustetlation. From an early and walery grave. Lats Jamary we ran on our reper a painting of the Constrdation fyhang the Fremeh l'Insurgentr. together with an artiche ahout the present diarpulable rowdition of the wesel that fought Itur fisel nawal engagement of the Lited Stales Mavy. I hard the gruat privilege of presenting our painting to Porsidernt Fismolnower and read in last weth"s paper that he had signed as law a bill assuring snug harbor and perpetwal cam for one of Amprica's most famous fighting ships. The ConsichIotion is presently docked at Boston but will eventually the herthed permanently in Baltimore where she was launched.

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## Warm Hunter Shoots Better! <br> 

Duck Hunters, read this actual test!
The Placg: Rig Leech Lake, Northern Minnemota, during cold November weather.
The Sef-up: Two equally matched markamen shoot from the same ullind. One wears heavy hunting gloves-the other, a heated Jon-e Muff buckled around his waigt.
The Reavip: 80 of the time that a "single" decoyn in, the man wearing the don-e Muf drops it frat! (During testa, hunters ware Muff and gloves on alternate days.)
Condurioma 1. Heavy gloves are not enough to keep a hunter warm in cold weather, are too curabersome, tom alow for fast, accurate shooting. 2. A don-e Muff keeps a hunter's hands and wriats warm and inatantly free for action, hin mascles relamed, his refleres faster. Beat of all, he's comfortable?
Plus Feature: After picking up wet, icy decoys. it's luxury to tuck your chilled hands back into the heasled Muff ea your boat heads for camp.
For Saturdays apent in a frigid football stadium, your wife will give three cheers for the smartly atyled Jon-e Muff, too! Sce it at your aporting goods dealers NOW.

Let JON-E PRODUCTS keep you warm in cold weather, too!


- Pack the dami thang securely againss rough handling, Mr. Hanson, ship it via Railway Express to Back Talk Editor, Argosy, 205 East 42nd Street, New York 17. Your subscription for two years to the world's finest man's magazine has been entered, effective with the October issue. Not only have we always wanted a Densinore discarded by an Iowa banker, but we need something to match somp of the handuriting found on Back Talk letters.


## BEER, FAT AND FEXANS

In yous Auguet Back Talk a gent by natue of E. E. Hudgens wrote a few nasty remarks abesut Texas and the beer here. Also something about Texans being loudmouthed.

As for Missuari (Hudgens' home) I would prefer the surriest curner of the West Texas desert to it. Instead of the so-called mixed drinks served in Missouri. I'd prefer a plass of tea: it's stronger. Texans lundmouthed? There is a geek

from Missumb who hasn't closed his mouth since his first visit to Washington. hasn't sajd anything yet. and hasn't shut up yel. Your magazine is fine.
R. F. Helumghal sex

Munahans. Tex.
Apparently sume confusion exists in the minds of your readers as to the height of bars ins the Republic of Texas. Fact is, uur bars are no taller than those in any nther nation. It is the smalliness of the people that canses our hars to appear so tall. when they step up to trink.

Let me assure Mr. Hudgens of Kansas City, Mo., that if he will step into any Texas bar and repeat his remarks published in August Back Talk he will gain a fresta perspective-from flat on his back on the bartonm flow.
C. D. (Neil) Mans Fort Worth. Tex.

In your latest April jesue was a stury rntitled "Drink Beer and Lose Weight." by Ruth West. I non"t believe Miss West is aware of the evils of achol (sio). . . Ask her to comnt the homes broken up by the main tupic of her article. . . . She must shoulder the hlame for past and future auto accidents and broken homes. It may be her fanit if a child is hit ly a car.
Ask her for me if she can sleep niglus with that in mind.

Karge M. Lawrenc.: Sulh Bend. Ind.

- We have examined Rum Wrest's shoulders and don't belierie they descrep to carry the blantp for a single auto acrident or driving anyone to drink, whough. of course, wll luthes reserve the right to brak up honses (with or withoul achol) if they wish.


## BUGGIES ARE FUN, MAN SAYS

In March you had a fine article lyy Ralph Stein on "How in Buy a tlaed Car." cleverly illustrated by him. I didn't see this article until after l'd been exposed to all the havards he described as characteristic of the freshmen converts to sports cate; last Januay I acguited two MGs one a Model TC -upercharged. Exactly as Stein wrote. I lad been a fascinated reader of the classified ads on spurts cars before laking the plunge. The main reason for my letter, though, is this coincidence: the sample advertisement reproduced as une illustration for Ralph"s article, a classified clipping captioned Dream Stuff, actually listed the twa MGs I acquired whertly before. . . This same ad. wiyinally in the Nen York Times, was what finally made me a sports-car addict! Ralph rang the bell. . . . these buggies ase 「ип!

Eaic Flemide
New branswick. N. .f.
(Continued on page 10)

Mrs. Fleming drives "Wee Beastie." hurband"s superharged 1947 MG-TC.



# Hunting and Fishing 

WI'l'H LARRY KOLLLR

DONT STICK THAT DEER: You can get ymurself into needless truble ly rusting un to a dowaed buck with your hunting knife. ready tor jompart the coup de grace. For one shing, your buck may nom be dead and he can give yon a real gring over with sharp humfs and antlers if there's a spark of life left in him. For another thing. if he"s dead-and you shouldn't approach him if he isn't - it won't da a bit "f guod to either cut his threat or stick hiten in the brisket with wan kuife. Once the heart actime ceases there's mof further beeding. so your efforts will be wasled. Furthermure, any unuecessary slashing with the huife will make the taxidermist's work tougher if you decide to munt he head. As a rule. the anmal will bleed properly from the womal which put him duwn. sn thenes nu great neerl for sticking. Yinall da a proper jul) wothe carcase if gou fieldedress it as sum an prosuille. then lang it to drain.

CHECK SHOTGUN PATTERNS: If yourge nut sure if qum have a longrange duck gun or mut. Itere's a fairly simple way to find out. Take ymur gun our tu a firing range and set ap a bieg piece nf whapping paper un a temporary tracketop-an old harn door is as gund as any. Step lack sixty yards and fire une af yonar favarite alurk loands th cover the pajer, Prepare buforehand sume cutouts of a lying duck or ponse made of siff paper or cardhoart. Lay these at random ower the pattern spread and check the momber of pellets each will cover. If the profies win't caver at least five or six shot holes consistently at his ratuge zum just don't lave a lung-range duck gurn.

NEEP YOUR EYES ON TIIE GAME: Most big game deer in particular. have the nasty labit of hending perfectly into the lack ground. due largels th nature's protective coldratinu during the hunting seasm. Thus mice you sigit that buek moving toward your sland. don't drop your eyes if your rifte action In check the safely-ur anvhing else. The alouph change in eve freus will make it difieult fur you tu pick up the deer again. Once you take your eyes off the larget. it may mut lur posible In fisd it apain espectally if von're hunting in typical eustern deer cover, It"s important th be semiliar with yar wrapme that you can check it by feel alme, without taking eyes of the game.

GET AN ASSIST ON GAME CALTS: When you luy a new duck or crow call, yet an experienced lunting pa! th check wh gour perfurmance abter your get a reasomable distance apart. Your virtmsity on the caller may sound great to your awn ears hat may sound like the cries of a benshee a lumdred yarels away. The impertant thing is la make the call semnel watual. Thiz you can da by pratrice and antjustity the tered.
 gut in the whods without natches or lighter to start in fire. If sulare humting hig game-and carrying a centrefire silip-thre isn"t much prublem in gelling a flame going. Firsh, frepare pur tinder-pine neeiles. dry leaves. liech bark-and have a suppily of small sudf al hand to keeq it gaing. Next. pry the hullet out uf a cartridge belween two rucks and dump most of the prowder on the timber. Then lewar off a small phece ol your handerchief or shirtail and stuff it into lare cartringe case. Insert this in the chamber and fire the rille. The rag will smoke. atul carelut howing will get a grool grow. This. when dringerl on the unthened funder an vane tiader, will burst imu flam".


## FILE 13-PEOPLE WHO

## WOULD LIMIT THE USE OF SEX

Have just read your article on Tokyo's sex hy Dick Tregaskis in the July issue. Thought your magazine was for men. not boys.* My husband and I have nothing against Sex. W'e have three children with a fourth on the way..** If it didn't disgust me so much (your story), I'd laugh! American men love the American Woman because she is mol and would never be a prostitute. polite or otherwise.*** All I have to say is your boy Richard is pretty hard up . . . forward this letter to him. I know we American women are pampered; my husband just bought me a fur coat and I didn't need it merely to keep warm. \# I leave you now, just a huxom, large-eyed lass, fnrgive mistakes: I'm also stupid. .

Mhs. W. T. Baueh
St. Louis. Mo.
P.S.-My husband. a MAN. agreps with me.\#\#

- He haw been abliged to annotate Mrs. Bauer's breezy letter, which we appre. ciate, to keep points in order and anstwer, respectively if not respectiully
* Boys should have all the fan?
** Congratulations.
***Never? This does not checto worth a hont with municipal, state and national police and/or uplitt societies' statistics on the number of prostitutes operating in America, as all over the world since time began. \#Are you making a point, or just bragging?
\#\#lady, we leap to your delense; your husband should not call you stupid when you are in no condition to hit him back.

Tregaskis' article is sickening. disgustingly true. But we ought to be ashamed
that such "goings on" are allowed anywhere, instead of bragging about it as he did. A sad and discouraging truth. Sex is sacred and not meant to be used so freely.

- . . .

Mary A. Husser
Minneiska, Minn.

- Stop. Far dangerous ideas that might influence public thoughi, and possibly the country's legislation, Mary is herpby forever barred and banned /rom making statements on the sacred subject of sex in Arcosy's Bach Talh.


## THAT WAR

Recalling the story "McCorkliff?'s Private War." (fanuary) and Messts. Frazee's and Bibb's letters (July Back Talk) on relative battle strength of the Lnited States and the Confederate States armies during the Civil War:

One point neither gentleman mentioned was that the Confederacy lad a different method of computation. . . Only actual combat effectives were counted in the Rebel Army. e.g., riftemen, artillerymen, cavalry, etc. But the Federal Army, as it does today, counted every man on the payroll, including clerks cooks bakers, orderlies and ofticers. . . . The comant method made the Rehels seem much weaker than they actually were. As fur the editor asking who really won the Civil War, l can only say that.

Ed Green Ruchester. N. Y.

- You, loo, may juin Miss Husset in silence, although your ban will not be permanent.


## GAFF FOR HEMINGWAY

I seen this puem in a magazine called "Atlantic Monthly" in a dentist's ufice while I was waiting to have a tholt pulled.


It made me forget the touth, for twenty minutes, trying to figure out if this fellow Archibald is for or against Hemingway. (See June Argosy). I decided he is nesIral, but has been smitten with the fisherman's bug-like Hemingway himself and a lot of other good men. I'd like to know of I'm wrong. . . . Here it is:

## POEMS*

by Ancimbad MacLeish
POET
Fur Ernest Memingway
There must be
Moments when we see right through Although we say we can't. I hnewt A fisker who could lean and look Blind into dazzle on the sed And strike into that fire his hook, Far under, and lean hach and laugh And let the line run out, and reet What rod could weigh nor line could jeel-
The heavy silver of his wish, And when the reel-spool fattered,
hneel
And with a jumbling hand that shook, Boat, all bloody from the gafi, A shivering fish.

IIomer Blakeston
Pittsburg, Kan.

- Homer, we don't know of a better time to be neutral than right now.


## MORE APESWEAT

Reference to "Apewweat on Tluale," I feel as sorry as you do lior those guys ap there, but what abrut the futgotten men -like us, who also serean "I late this goddarn place!" Many peopte bemoan the terribte Greenland winters but who ever cries over the Kansas summers? . Just as bad in a different way. You can"t even buy a decent beer here.

Ev, R.J.. fi.f.. Dave. Othal Forbes AFB. Tupetha. Kan.

- Well, we conld just scream, tou

We thank you with all the agesweat we can muster liese on The Ruck where frank Harvey gut his story. His enthatyiastic, eye-uptning article was by far the mosi-interesting and trublul-ver read by we Thuleites... Therefore we await your return engagenent with a promise of hot Crations and skilled Honey dippers. Respectfully:

A/le Leon Royee, A/G Cumater Hiatt APO 23. Thule,

## SURVEYOR'S MYSTERY

Enjoyed Jerome Elison"s "The Green Tower Mystery" very much . . . but he injected anuther mystery. Where did the hero get a surveyor's rod gradsated in 1 /100ths inches? A surveyor uses a rod graduated in feet and $1 / 100 \mathrm{~h}$ s of a foot.

Wm. A. Johnson
Tuesun. Ariz.
Leaye it to Argosy editors to find authors with a new twist . . . "Green Tower Mystery" .. . the hero is a man with a head the same thickness as your magazine. Why? So he could stick that head in be:ween the compass and eye*From Athatice Monthly, July '54.


SEND YOUR NAME and address with \$1 to Calvert, Box 5088-AR, Chicago, Ill., for four de luxe "Lo-Ball" Glasses hand-carved with your last-name initial. (Print Plainly.)
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## Compare... and you'll switen to Calvert

[^0]"All that oil in Texas . . . and not a drop in my crankcase!"


## Doctor drives over 200 miles with NO OIL in crankcase!

*Before driving from San Antanio, 'Texas to Nash. ville, Tenn." writes Dr. W. F. Burkley of Mati*
 grease joh. That nighr. I drowe hatd ma Dillas, over 200 miles away. My dashlights wete off and, since the motor didn" overhear. I did not check my oil pressure. Imagine my sutprige when found the station attendant in San Antonio had drained all the ald ail. but had nal added amy were' My car had hecn lubricared for 200 milus only by the rhim. protective Pyrail film which had emained in the enginc. And 1 sar truthfully say that my engine engine. And san touthithy say tar my engio

This was a freak siruation . . . is all probability. your engine will never have to undergo such aै grueling rest. Yet Dr. Buckley's expericnce does Elueling rest. Yet Dr. Buckieys expeticnce does cmphasize the fact thar, herculean task of normal
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piece ust a transit ant take a reading straight "p (pare 70. Angust). Mighy landy. Ihem wafer-lieads.

Bup Kımes
Kansas City. Kan.

- Thanl you.


## PIGGYBACK

Letter of Cpl. David F. Jones. Far Hast (August Back Talk) comes to my attention. The practice of turk trailers being loaded the mondifed railruat flatcars fur the long haul has becn successfully sried nut by a lot mare thas the iwo ruats he mentioned: at leas half a thay lines. with the list growing. . . Anel if the rumers and railratalo can get tugelluer on mplitting the swag-with ICC same-tion-ynu may shout hatletitjab.

This compromise solution and not-Inn well-knuwn impervement in the midel of a bitter banle will surdy sulve ransi uf the problem of truckers running rulbertired livennanives an our hiyhways. The arguthonl pros and con gets fairly senseless at limes. huth the trueks and sailruats luting here tu sias. . . . Cuntio mercialism aside. ank the military if they want to disuense with either. The idea. of conses. Hat truck- bay in taxes mure than a fraction of the fotal enst af pavement they destroy will their angodly loats fere axie. is ridientums.
The new llatears truck trailets Preight has been wristened "jiggybach" service. some year ago. The entry of General Motors into this felua the very buys whe shaved the diesel down many a die-hard railreader's throat. merans if is no pasing fancy, if the pablice (anme of your Ahcosy letter writers. for instance) will Lwist the ICC": tail in Washingtum, D.C.,
as well as that of either party obstructing the general spread of this new rail-highway system. wherein each accuses the other of wanting to grab an undue share of money. we would quickly get the monkey off our backs in the national highway dilemma.

Cr.jus Carley
Bruken Arow. Okla.

## EDITOR'S NOTE:

Archie Fioberlant. aulthor wf "Werth's Wackiest Fixla" (Seplmber) widues tu chill the following beef: On sering proul (len late to corsect) an the Siamene finla stury. mite that the byline piviny mu* credit for the phome is wrung. The loוleft nicture (fagem 50) was by Gene Woflshtimer of Washingtun, D.C., whers h: Sufalum Bunnag of Bangkok. lakers expmially firt hais article, In the cumplete rewriting apparemty dhe orn my story ar Antosy. a charminer linle fish was thescribad as "a shmok, ur . . . the Eald lygle of lawer Shohlovia." and is then. with inteffable ermsequencers. compared direcoly th the farbal expresompors of the siamee prosple... The Humal Security Ageney was incurrectly called part of the L.N. Furd \& Agriculture Oreanization: actually, nuw titled Fureign Operatims Adiniticitatima, it is part of the [1.S. gov. eromemo. . . The whole stary in rewrite was hammed u] and loaded with stor notrex and jurer taste which I mever put Horte. . . it used tid bee a nice story.

Abghef Fomemtion
Brasklyn. N. Y.

- Editar's L^ Envai (French for Vaya con Diss): "r prim frchie's letter that h" may kep his record straight aith read. ets, not as crificism of previous editors in

charge of the September issue. To the Siamese people who might take offense where none was intended, please be reminded that the shmoo is loved in America as a symbol of goodness and lots of it.


## FIGHT IN ALASKA

Big thrill with nostalyic memuriea to read Larry Kuller's story. "Alaska's Gentleman Scrapper." in August. I was with the 18th Engineer Combat Fiegiment assigned to construction of the Alcan Highway. arrived at Whithorse. Yukon Territury in March, 1942. Surprised to learn we would work arat of Witehorse as far north as the Donjek River. Fished one virgin strean after another
streams near sur camps with grayliny by the hundreds. One wash-back lake off a small river had grayling actuatly jumping out of the water by the humdreds. hungry . . unbelievahle to see. A freshwater fishernan. I dum"t hesitate to say that I'd jutst as sonto lie iutu a mediumsize grayling as a large tomul of the stuck


A portrait of a satisfied fistherman
sariety found armund lhilademphia lete. No better description than Larry's. tu call them "gentlemen."

Enclosed is a picture l sent fo my wife which she still reluses to believe. She hasn't read your article yet. su 1 still lonpe to convince her even afyer twelve years. l'm guing lack for a vacalion sume day with the "gentlumen fish."

Sam Mickie
Philadelphia, $\mathrm{Pa}_{\mathrm{a}}$.

- Mrs. Michles will kindly takic our turd for it that this smapshot of Som and the polite fish is as whthentic us ever we sau. and that the look on Sam's face cominces us (old experts on fishermen's mins) that nobody else but Sinn had unything to do with the catch.


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# how to steal \$8,000,000 a year <br> BYMICHAELSTERN 



Maybe GIs in Europe could keep nway from Texas insurance, overpriced liquor and slot machines in their service clubs. But they couldn't very well stay out of the PX, and there the little band of crooks called The Combination was rooking them with the biggest suindle of all

NOT' [ong ago Mr. Davia Sokolow. memhandising director of the U. S. armed services* lituropean Exchange System; found himself in the lappy prosition of having nore stuff on hand than his customers could buy. The EES is, of course, purveyor to our troops in Europe of a vast variety of things from chewing gum to automobiles-including, for service men and women and their families who do not eat in GI mess halls, food.

Un this oceasiun it was food that Mr. Sokulow had too much of-food likes sugar and cofters. He had too much of it. in fact, to the exient of some $\$ 1.500 .000$, wholesale.

Now, to any ordinary merdiant an overstock of this magnitude would be cause for concern, if not for alarm. But Mr. Sokolow is no ordinary merchant. Besides being merchantising director for EES he was its chief legal officer, widely regarded as having one of the brightest
legal minds in the System, and he had been largely instrumental in establishing the European PX setup. The EES is no ordinary business, either. It enjoys virtually a captive clientele in the hundreds of thousands of American service personnel stationed in Europe. In Germany, where most of its establishments are, it also enjoys the presence of a citizenry around its stores eager to take off its hands any overslocked items that can be had at a reasonable price, particularly such items as sugar and coffee. Nohody knew better than Mr. Sokolow that any time he had too much food in stock, plenty of local businessmen stood ready to help him get rid of it.

Shortly after the existence of this surplus became allpareat, therefore, according to testimony later given before the U. S. High Commissioner's Court, Mr. Henry deVarinay, a Cormer employe of the Army"s Criminal Investigation Division, conferred with a wealthy businessman named Friedrich Bohne aboul disposing of it. DeVarinay, according to the Court record, told Herr Bohne that he could have the stuff. all right, provided he would pay to Mr. Sokolow and Nelson Bretts, Sokolow's assistant, a lee equal to ten per cent of the sales price. They setted on the amount of $\$ 140,000$. Нerr Bohne, however, was a very correct German man of business. He had no objections to paying a bribe but he was unhappy at the thought that if he tried to deduct this considerable sum on his tax statements as a business txpense, the tax authorities would disallow it. To proted himelf against this distressing eventuality, therefore be caded a meeting at his home of a seleet group of Cer. man oficials, including a tax commissioner.

At this meeting it was agreed that bribe is an ugly word, and further, that a bribe is not a deductible item under German tax law. By common consent it was decided, therefore, that Bohne's fee to Sokolow and Bretts and company should be written ofl as "damages." So Herr Bohne bought $\$ 1.500,000$ worth of foodstuffs, paid Sokolow and Bretts their $\$ 140,000$ and wrote it off as "damages," and everybody was happy.

Everybody, that is, except the German tax authorities, who must have been at least a little uneasy about the whole deal. for they eventually reneged on it. This. in turn. caused Mr. Bohne to yell to high heaven, and then
to tell his story in the U. S. High Commissioners Court. In doing so he described probably the biggest single hunk of graft that has so far come to light out of the devious doings of our armed services' European Exchange System, but by no means the only one. The Bohne deal is just one of the more conspicuous rotten apples to come out of a barrel that's loaded with them.

Rackets? Consider liquor. The best way to find out about the whiskey business. I decicted, was to talk to Floyd Oliphant, an ex-Army colonel who heads the U.S. Army in Europe's Class VI (liquor) supplies. I knew that the price structure left ample room in which grafters could maneuver. The Armys procurement offeers were paying, roughly, a dollar a bottle for whiskeythe price was low because it was tax free-but were selling it to the boys al $\$ 3.25$ a hottle. Now a markup of 225 per cent didn't seem quite fair, evem if the profits did go to a worthy organization known as the Welfare Fund. I knew also that certain commission merchants were drawing as much as a dollar a hothe for commission and warehousing on sales of 35.000 cases a month. I wanted to find out how much such commissions raised the retail price.

Oliphant's office is an a railroad siding about one mile from the headquarters building in Heidelberg. A dapper, brisk man of about fifty. he greeted me with an effusiveness that would have done credit to a cemetery-plot salesman. "What can! do for you?" he beamed, as though nothing would give him greater pleasure than to fulfill my every desire.

I told him that I would like to have some information about his liquor business. I wanted to know, for example, the European Command's dollar volume of busjness, the prices paid for the various brands, how much was written off for expenses, how much for commissions. who the commission men were. and how much was turned over to the Welfare Fund.

Oliphant"s cheerful face dropped like a mask. "Hold on a minute, friend." he said severely. "You"ll get no information from me:"
"And why not?"
"Because all information regarding liquor sales in the Army is classified."
(Conimued on page 18)


At left: Nekon Bretts, on leaving the PX system, got a medal. Right, David Sokolow, ex-PX legal eagle.

## 'round the calendar ...

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Gify calds he read from.

1 enclese $\$$ $\qquad$
For eddilional names, list on separale sheat.

I pointed out that as an accredited correspordent I was cleared hy the Department of Defense to recoive such classified information. Well. now it seemed it wasn't exactly because the information was classified that he refused to talk; really. it was more because he did not want prople back hume to know that liytur was made available to the tronps.
"You mean." I said with some astonish. ment, "that if I were to write about soldiers drinking whiskey it would come as a surprise to the penple back home?"

This was exactly what he meant. It mitghe even bring a flood of letters from the Women's Christian Temperance Unkat and crackpost like them.

He finally decided that if a representative of the Army's public information office and one from the supply section were present, he would be more inclined tor 1 alk. The supply section sent a colmel. The pullic information office was represented by a civilian employe. The simple interview was how a stately conference. My first question was. "Where are you frotu in the states. Mr. Oliphant?"
"Nout so fast." he replied. "I'm not required to give you any more than my name, rank and serial number."

The lwo Army representatives boked pained. The press efficer said that his oufice had no abjection to Mr. Oliphant being interviewed: in fact. they stood seady to assist the press in gathering facts. whether these facts were complimentary or nut. They had nu authority, however, tor order Mr. Oliphant tu proceed with the interview.
"I'm nol afraid of being interviewed by you." Mr. Oliphant said boldly. "I don't mind telling the whole world that I run the must honest operation in this man's Army."

As 1 made notes 1 read aloud fur Mr. Oliphant's benefit: "He claims to rum the most herest aperation in the Army, but he"s afraid to let the public look at it."
"1 never said that." he fairly screamed.
-l was merely noting down your actions as well as your words."

TTHAT ended the interview. I do mot know whether the information I later uncuvered from a suarce in the Criminal Investigation Divistion of the Army had anything to flo with Mr. Oliphant's nervousness. I was informed that the lady who is now Mr. Olenhant's wife had buen a highly successful liguor-company representative. She was so. apparently, until about two months before she and Oliphant were married.
But pay-offs on surplite sales and a 225 per cent markup on liquar, althungh they take a corsiderable bite each year out of the unsuspecting 61 , are unly minor facets of the clipping he has been getting from the PX. There is an infinite variety of methods by which the GI is taken to the cleaner's here. For example. take a simple item like milk. The man who holds the monopoly on the sale of this product to the European PX system is a perwonable young ex-CI from Maynard,

Massachusetts. named Robert T. McLane. By his own admission he has made an awful lot of money in this bush-ness-enough to keep a stable uf race horstes ruming at the leading European tracks. His major accornt is Sterovita. largest dairy in Holland. Althugh he has a glib tongue and pleasing personality. I would hazard a guess that it was the $\$ 200.000$ he slipped to just one of the purchasing agents for the PX—— sum representing five per cent of the volune of busintes-that really clinched the deal for him.

MCJ.ANE'S business background is athout average for the PX crowd. Shortly after the war he noted with interest that diamonds could be bough cheap in Belgion and sold dear in the Linited States and his attempt to caslt in on this economic phemonenon finally brought him a conviotion in the United States Frederal Courl in Massachusets for smaggling.

White delivering milk to the PX he used specially designed vacuum-tank trucks. The milk compartment, lowever, was spralt hecause all the space armund it was stuffed with back-markey coffee that he bought in Belpiam at sixty exals a pround and that sold on the black market in Germany for eleven dollars a pound. A single truck could carry. in addition to its load of milk. 5.000 puands of coffee bean. He got these loads across the butder by using form FiCgy, an Allied export-inupora cerificate that the PX gave him stacks of in hlank.
While the profits in this enterprise were enarmous, there were also sume risks itvolved. The German customs police findity caught up with him. But the head of the legal department of the Anerican High Commissioner's stalI was so moved hy the plight of this fellow American, who also happemed to he a poker-playing pal of his, that be wrote a letter to the German D.A. demanding Mclane's release. (This legal bleeding hearl is a C.I.A. agent in Germany now. The Germans cunvicted MoLane anyway and sentenced him to seven months inprisummen. Whereupon the master salesman slipped acruss the border.

One of the cute deals pulled by McLane was his sale of chuculate milk to the PX srack bars at 21.5 ceats puer quart. The cartons in which the milk was supplied were labeled: "Seven times tested-pastearized chocolde milk-minimum butier-fal content 2.6 per cent." "The sale of this chocolate milk was al the rate of 250.000 guarts a month. After the milk had been on sale for scveral monthes, independent tests of it were made in several German laboratories. The tests showed that the butter-fat con tent in the chocolate milk was actually 0.4 per ceat-it was skim milk, obtainable in the market at the time for 6 cents a quart. It cost Sterovita an additional 4 cents fur chucolate flavoring, packaging and handiing. It doesn't take an arithmetic giant to figure that Sterovita was making 11.5 cents a quart profit--before,
that is, subtracting the cut for McLane's friends in the PX.

When the reswits of the laboratory tests were made pullic, the embarrassed $P \lambda$ authorities made a new agreement with Sterovita, through McLane, so that they paid 7 cents less a quars on futkre orders (the PX price to the G1 drupped 5 cents a quart]. No effort was made by the $\mathrm{P}^{\mathrm{X}}$ to recover the overclarges already paid. As thie is written Mclane is still one of the PX 's leading salesmen, with a standing order for 900,000 quarts of milk a mouth; and Sterovita. a company that freely admits the payment of bribes to PX execulives, is still the leading dary supplier.

Welane"s payaffs wete hardled in the firnest intemational tradition. He had a number accoum in the Bank Für Anlager Werte of 7arich. For the benefit of the uniaitiated this is the system used by international crouks, spies, Commanist ayents aned the like, tu cloak their tranoactionts. The bank does noz know the name of the depositor; it has only a mumber. The person holting the account writea out the number in his own distinetive way, thus furnishing a handwriting sample as easy to enmare as a signature. McLane"s mamber was 198126. His fuads fitnnelted through shiss account and frosn there through a Basel. Switzerland, agency called Popasaris Tones, to the eventual receiver. As a tourist agency. Populatis ranks as one of the wouders of Swiss banking. McLane, for example, might telephone them to deliver 10.000 English pounds to a given persan al a given address in England. At the proper time, at the proper place. a doorbell would ring and a man world hand an envelope to the proper purson. It would cuntain the money. There would he no conversation, now receiphs signed. This exceptional toerist agency furnishes this service in all commtries on the face of the globe and. what is mare, enjoys and deserves an excellent reputation for prompt and honest delivery. If any ordinary lusrist ever tried to use this part of Popularis" service. he would probably be thrown out on his par.

The sample racket is used by the directors of the Post Exchange for what is known as homest graft. Suppose the wife of one of the directors wants a Mersian lamb coat-as the wife of one uf them did, recently. The PX ordered six $\$ 800$ coats as eamples to see whether the line would sell. This was so expensive an item that it didn't move, so after two weeks the price was cut sharply and the coats were sold at a heavy toss. The wife of the director picked up her bargain at the cut rate. The loss was just some nure money that didn't go to the Welfare Fund.

THE Rolne case gut an end to the PX racketeering of Sokolow and Bretts. but it didn't do much more than that. When Herr Bohne fell the painful bite of the tax authorities and began singing, Sokolow took off across the border, out of the furisdiction of U.S. courts in Germany. Bretts was already in Switzerland,
and stayed there. DeVarinay stuck around tow long and was tried, convicted and sentenced to a year and a half in jail. Said the prosecutor, at the conclusion of the trial: "I have only one regret and that is that the eorrupt Americans, Sokolow and Bretts, are not in the defendant's dock with deVarinay. Permit me to assure the court and the community that these men. wherever they are. will be diligentiy pursued and bronglt to justice."

These are brave words. but it's douldt fal if they put any fear inta Suknlow and Bretts, who know that bribery is not an extraditable offense and that the Justice Department takes the wiew that criminal malversation of public funds. which is an extraditable offense. dues not cover PX cases.

In the palmy days of Soknluw and Bretts the "Hake." wr tigorish, as the New York gangster calls it. was a daily af. fair. Instead of hit-uml-ran means of snagging the illicit dollar. the top civilian heads of the European Exclange Systen set up a smoothly functioning buainess organization. called by thenselves, in fact. the Crmbination. Soknlaw was the lurains. As the system teveluped. Bretts left-he was, incidenally. given a medal for lits rood work in the PX-to become the outside man. setting up the Progressive Marketing Asucfation of Vaduz. Liechtenstein, and the Vura Corpuration of Zurich, Switzerland. su that he coult do business with his pals from the uther side of the fence. Bribes were put in a central pot, divided and syphroned uf into naraber acconnts in Switzerland. Ten of these have ulready been tracel, but the Swiss banke refuse to certify them so they can be used in eriminal trials.

An ex-ufficial in the PX setup told me, "I was making my own graft and was pretty hajpy at it when une of the bie operaturs came to me and asked if I cared fin juin the emmbination. He said I would have to kick is to the common pot what I was making but that they would open a number account for me in Swizzerland. My starting cut was to be two hundreel and fifty a week. The reasom I didn't aceept was because I was doing better than that on my own. Besides, I always felt that this particular guy was something uf a wrak sister and if the shoe ever pinelted him he would Equawk."

The combine"s take las heen estimated as ten per cent of the tutal value uf the goods they landled. mathing their inconse roughly $\$ 8.000 .000$ a year. This was confirmed by their mode of living: perblunse suites at he Genrge $V$ in Paris, yachts on the Riviera, aul racing stables.

The combination inperated with the smonth efficiency of big lmsiness. They had three companies guing so that when me experienced difticulties in anagging a big deal, or happened to lee in a particalarly lyad odur at the moment. another was substituted to wrals off the contract. The companies were Nura Limited. Ocean Export Limited. and Progressive Marketing Company. Nura Limited. located at 10 Usteristrasse. Zürich, was an inactive compuny when it was picked up by Brets. Bretts became its managing director and he sold mountains of food-
stufts, ratios. spidise lizaters sum dumer products to the PX. These sales avecounted for 99.9 per cent of Nura's lusiness. A single meat sale was for $\$ 640,000$. Nura bas made so much money that its proceeds lave built the first two skyserapers in Switzerland.

I drive duwn to Zürich to speak with one of Nura's sales representatives who has loroken with lhe company. An ingratiating Swiss who was eager to give me alf gussible infurmation, he was also a nervons informant. Swiss law holds data if anyome disetrses details about Huese ernoked lransactions to a news. paper man. be can be sent to a jail for having violated the Commercial Intelligence Law. a statute that has made Switzerland a haven for apies. black marketeers and slady operators, This man said that. as Nura's agent, he made his firct visil to PX Headquarters in Nitentieng where lie was personally received with great homor. Buyers were called and placed at his disposition. Orders were signed withous any fuss. He was amazed at this fine reception and atriluted it to the furce of his own personality. Only later did he learn that his personality was a consideration distinctly vecontary to Nura's pecaliarly effective setup. Almost every week end a directur of the Frankfurt Post Exchange. biggest in Fiurope. wnuld come to Zürich and stay at Bretts' apartment. The sale:man overheard them making many deals in the cury confort of the living ruma. This director later left his penst to beconse a sales representative of Bretts" Progressive Marketing. The combine alidst only jrofit on direct P X business, my man said. One of the members angmented hisis inconve hy smuggling 4.000000 packs of American cigarettes a menth into Germany through the use of PX import certificates, much in the manner in which Mclane was able to rum his coffee
smupurling business. This highly profitable racket lasted for several years.
That the PX is a breeding ground for eronks is not surprising. A reeent check of its German civilian employes disclosed that filty per cent of them lad police records, mainly for prostiturion and black markeseering. Aside from the loose lont lying around practically begging peesple with liglu-fingered teadencies to help themselves, the entire PX operates under a minimum of control from outside agencies. It is nut an individtal. nor is it a partnerahip nor is it a corporation. It is sometimes described as an instrumentality of the Army, Jut this is not quite so. PX executives regularly ignore the rules which bind government agencies in buying and selling. They are not bound by goverament regulations. they say. because the PX receives no money appropriated by Congress and therefore is not subjees to the laws which Congress has set up to saleguard public fonds.
Cun the lowting that is now going on in the PX be stopped? My answer, based on dozens of interviews over a four-week stzelch with PX thieves who are now on the outside and with some still on the inside, as well as with honest members of the PX, is that it cannot. Even with the top members of the Combination wut of their jobs, it will not be hard for He lithe grafter of today to become the big one of tomorrow. All it takes is a little brains, a little larceny and poor comtrol. And there's no shortage of those in the PX.
And then there's insurance. The companies sclling life insurance to GIs in Eurupe operate willin the law, but may well be found hiding belinul same technicality when pay-ofI day semes around. What makes the Gls' deal worse is that the Army authorities themselves have set him up as a pigeon.


In osder to make char whel the (:l is up against, it is neces-ary tu ant forth a short lesson in insurance. Tevas has the most lax insurance laws in the Uaited States: companies there spring up like weeds in a garbage dump. Sume of thern are capitalized for as little as $\$ 25.000$. Others, which liss more imposing assets, may have taken a $\$ 10,000$ piter of real estate and arbitrarily given it a value on their books of $\$ 500,000$. These things are not uncommen in Texas. The weakness of many companies in that state is such that any disaster. or even a litule bad Iuck, kills them of like flies in a culd snap. There are more failures of life-insurance companies in Texas than in all the rest of the fortyeeight states combined.

HERES a sample of the way some of these outfits do lusiness. The National Educatnss Life fnsurance Company, of Fort Worth, sold Robure L. Jeffrey, then a 17 -year-old recruit in Camp Stonemam, California. a $\$ 5.000$ policy. The young soldier paid his premiums regularly. He went off to war in Kirma. There lie was killed in action. The insurance company, notified of his death by the Defense Department. immediately issued a diselaimer of responsibility on the gromand that the application for the policy had nut been received by its home office, even thepugh the company had been regularly cashing in the premiums. 'J'o show how really fair it was, the compony sent Jeffrey's premiums back to Army anthorities. Jeffrey's father, a farmer of Hamilton. Texas. refused to accept this as proper settlement, whereupon a vice president of the company visited him and offered him $\$ 1,000$ to setsle his clains in full. after which the elder leffrey bronglt suit in the 17th District Comsl in Texas. A jury handed down a verdict in his favor. That was one claim the National Educators Life Insurance Company paid. But it is interesting to note that if the senior Jeffrey had been a larmer in Maine his case might never even have come to trial. You can sue these contpanies orly in Texas.

The name of Texas figures very largely in CI insurance in Europe. LSAREUK Headquarters has permitted an orgasizatien of Texas companies kmown an the Earopean Association of Life Underwriters to become the virtual arbiters of the soldier-life-insurance business. The presideat of the organization is Bill T. Turner. military agent for--believe it or not-the National Educators Life Inewrance Company, of Fort Worth. Texas. The real power behind the organization is Wałter T. OHaire, an athorney from Pittston. Pennsylvania. who is its founder and executive secretary, and who is hired on a monthly retainer basis by the very same National Educators Life Insurance Coms pany and four other Texas concerns. Texas companies sell ninety per cent of all life insurance sold to soldjers in Europe. The soldiers are herded into classrooms in their "Infortnation and Education" lectures, to make it easier for the so-called salesmen from Texas to

Makh Heir pitch at them. The so-called is used adrisedly. Just aboust the only qutalificalion anybody needs to be licensed as a Texas insurance salemman is to heve a certificate of residence in that state. And if you think "certificate of resjdence" means what it says, think again. So long a line of salesmen for Texas comithanies were showing up at the US Cunsulate in Frankfurt. asking for ceptificales of residence in Texas that the vice-consul became suspicitus. The accents of some of thera werent even as close to Texas as Brooklyar. When the vice-consul asked are "salewnan" whether he lad ever resited in the United States, Let alone in Tpxas, the man answered lrankly, nus. Shortly afterward Mr. OHaire teleploned the consulate and protested that this was not sufficient reason to deny the applicant a certificate of Texas residence; the State of Texas. he -aid. helds that for licensing purposes the tore intent in hecome a resident of the State of Texas is cnough. The statements made by snome of these characters under Army anspices to soldiers of very limited insurance experiener contd get them jailed under the laws of New Yurk or Californial where insurance laws are strich. Texas law lets them say almast anything they like.

ASIDE interest of this same Mr. O'Haire. ineidentally. is stot machines. The firm be renresents. Autumata GM13H. L55 Hananer landsurase. Frankfurt. owned by another American. has conered the slot-machine market. They wore able to do this Jy convincing a grous commander at the Phthen-Main Airport that it was in the military interest for him to issue them a U.S. transportation form 69 to permit them to import 116 machines into Geamany without a licerse or payment of customs duty. The Rlein-Main requirements did not cume tu mure than furty, leaving these modern evangelixis about seventy instruments with which to spreac joy among the heathen Germatns. Colonel Mikes W. Brewster, the Wiesbaden armchair eagle by whese orders the slot machines were athowed intn airmen's clubs. says he permitted this because it is a painless way of producizg revenue. That is true. as Frank Costello and Iot Adonis discuvered lung ago.

How much does the ninety per cent that the Texas companies sell to the GIs amount tu? The Army professes to keep nuin records of such sales, but a ennservative guess is that they hold at least $\$ 50$. 000.000 worth or policies. What buthered me was not only the staky nature uf some of these investments, bat the disturbing report that other companies could ant get Army approval to operate in the arca at all unless they joined the Texasdominated Association.
So I went to the office of Lieutenant Colonel Lewis V. Smith, the officer in charge of insurance, and had an interview with him. He was very glad, he said, to tell me all he could about the business. I asked if he was aware of the insecure nature of many of the Texas life-insur-
ance firms. He sanl than wis monem of his berause these compunips hart heen cleared by the Pentagon. Dial he know that some of the companies selfing millions of dollars worth of poliries to GIs had assets of no more than $\$ 25.000$ ? He wasn't aware of this, he replied. thet even if they were small compranies. they in thrn re-insured with large firms.
Now the word "re-insure" has a salid ring to it and 1 asked whether or not it was true that the re-insured policy sumbetimes was not a complete coverage of the ariginal me. For exarnple. if a small company wanted tu be able to advertise that all its policies were re-instared yet also wanted to keep the major portion of the premiums for itseln, it couid conditionally re-insure the original policy folder so that the re-inswrance firm would be liable only if the insured were stanting un lus left foot, facing the risings sun and was trod on loy a stampading herd of elephants on an odd day of the week. Unter these special condjtions the re-insurance fee would be a few pennies a year.
"I dun't know that much about insurance." Colonel Smith said frankly. "I'm an Army ufficer."
"Have you ever seen a re-insurance comtact?"
"I never saw a re-insurance policy in my life." he said. "That"s not part of my job."
"Is it 1rue that the European AssiciaLion of Life Underwriters is the dictator of CI life insurance in Europe?"
"That's not true at all. I am the final authority."
"I am told that it is impossible for an agent to do business in Europe unless he joins this Asseriation."
"That is not correct. Only I have the authority to license an agent."
[ asked if there were any agents ]: censed to operate who were not members of the Assuciation. Colonel Smith confessed that there weren't. It so happened that an afrem from a large American company incorporated in the states of Washington and California who did not want to be tarred by association with the Texas grouju had told me he could nent Eet accredited by the Army because Culonel Smith was putting all sorts of difficulties, in his path in an effort to force him into joining. The colonel didn't think this was quite accurate. but on clorset questioning he admitted that if anyone brought in a letter from the Assuciation giving thim clearance as an agent. the man would get his license to gell to the troops by return mail. If an agent tried to get the colonel's clearance without joining the Assoctation, however. the colonel would have to make an independent investigation of him.
"And how would you investigate him?" I asked.
"Why, I'd write a letter to the Assto ciation and ask thera to make an investigation."
"How do you police the insurance business in Europe?"
"Only through the Association."
That seemed to take care of thak. God have mercy on the poor GI.

# ARGONOTES 

about argosy authors

T- HADMEUS V. Tuleja. whose dramalie account of one of the grealest sea stories of WW II "The Kill af the Graf Spee" appears on page 28. has had practically a lifetime interest in uceangoing vessels. "It all started," he tells us, "when I was six years old. My mother took me to see the feet anchored in the Hudson River, but she gol in the wrong line and soon we were churning out to a gray battleship in a motor launch." The experience evidently inluenced Mr. Tuleja more than be thrught because in 1942 he enlisted is the Naval Reserve. and in 1943 found himself putsing out to sea ahoard a 110 -frool sub chaser.
"That first sea experience wifl always live with me in grim horror." he says. "For three solid months I was seasick and 1 lust thirty pronds in the bargain." Fortunately by the time he'd served as liasson officer and navigator sor suli chasers. PCs, DEs and trope ships from the Pacific to the Mediterranean, the mal de mer had gone.

WEVE GOT a fiction author this mauth who is also sumewhat sea-strtck. lut he gets his kicks thirly feer or so under the surface where therets less danger of hecoming seasick. His name is Arthur C Clarke and his holby is taking maderwater picttres. Tn addition th having pubiinlied more than a hundred articles and shart stories, six novels and two nonfiction looks. he can always get by with his swim-fins, snorkel and 35 -mm. camera.

Clarke started his prodific writitus career fairly quietly. During WW 11. when he was an RAF radar specialist. the published a number of technical payers on electronics, Writing un ralar exprimemation appears to have been just a protus away from writing science

The tools of the trade, for Tuleja, are sea lefs, a sextan, a typewriter.


NOVEMBER. 1954
fictiom. lar in the time at all hered hit min the furmula which has kept him at his typewriter ever since. See: page 34 to discover why $i$ (imaginationl plus BS (Kings Cullege, blyysics and mathonatics) equal whe helluva stury.

WE HAVEN"r met a phothgrajther yet whan started oul as it photographer. Mike Ehrenberg. for instance. whan tonk the Tracerlat pictures un jages 32 and 3 . used to be a newspaper writer. Then une year in his wanderings around Europe lie pricked ul a Leica and that was it.
THE OTHER for insiance who lears out our findings is Joe Coustert ("1) "reasant Where You Want Thern." page 501, one. time private eye, Jowe did Intelligence work during the war. and when he font out of service a friend in Connecticut started him on the way to becuming a shamus. Then lue surt uf Iriftel into legal photugraphy and from there it was more or less inevitable that le'd evenbally focols his lens on more than a corpse or a set of prints. How he gol th be a racing-car driver is sumelhing we tan't explain as logically. All that we know about thal phase of Mr. Coudert':s career is that he drowe half-ruile-sprint cars. copped himself a New England championship in 1918. and after several stays in the horpital. Ifeided it was safer to take pictures.

We're not sit sure he'e right. Hanught berause some of the Nilan were taken from a pheasart'seve view-within bultweeye distance of the ginners. We pointed his oul to himb but he reftused to ste anything much to get excited alnut. "Jusi a nurnal uccupational liazard." he cutnoterel. With his uccupations, who could argue?

Sprint care and a shoulder holster brough Coudert. mamera tuether.



Top: Lee Overalls and blonket-lined or unlined Lee Jackets. Belaw: Lee Dungarees. All made of tough Lee Jelt Denim, offer you many "extras."

> How Lee tailored fit lightens your work

Don't let tight or poorly fitted clothing handcuff your movements, slow down your work! Lee Overalls and Dungarees fit right for comfort and freedom of action because they're tailored to your exact size, Sanforized to stay your size. Alk Lee garments, Union Made Union Labeled!
the H. D. LeE CO., Kansas City, Mo.


# man with the ANSWERS 

BY HOMER CROY


AhGOSY has asked me to take over this department and try to answer the questions. I'll do the luest I can. If I dun't know the answer. F'll get un my sconter and go to somebody who does. (I get traveling expenses.)

Where can 1 sell live rattlesnakes? John E. Cooke, Dunhar, Pa.

Our snake editor is in the hospital from snakebite (he tried to sell a live ratter). so I will undertake to answer you. Write to the nearest zou. Ask the reptile man if he's got all the rattlesnakes he yearns for and if he will give you the name of a drag-manufacturing company that buys rattlessake venom. Also write to Russ Allen, Silver Springs. Flurida. who thas a snake sthow. Don't bring any of your samples to our office. We know that yomr snakes are just what the market wants.

## Where can I go prospecting for uranium in Canada: E.F.D.

Write to A. C. DuFresne, deputy minister, mining department, Quebec City, Quebec, Canada. He knows more aboul where to find uranium than a Geiger cuturter.

When I go camping, I have a great deal of trouble keeping ants out of my sleeping hag. How can 1 Keep them oul? George P. Foster, Jr., La Grange, III.

A sleeping bag sprayed with DDT will keep out ants.

## To C. Kichardson, Bullimore, Md.:

So you are planning a foldboat trip duwn the Inland Waterway! You will be encouraged to know shat about twentyfive yeara agu a Cerman sea captain got fed up with big ships, buik hinself a foldboat. and sailed the darn thing clear across the Atlantic Occan. Not only that,
but as muth as: fifty years ago mae character in a paper karak (yes. praper haydel made the trip from New York to Florida by padulling all the way. And only a comple of years ago, a pair of buat-sizup operaturs set some kind of speed record by making the trip in about a week when you use an outhoard-powered runalunat.

In reply tu your question about where to ublain navigation information, I would suggest you write to the following: Yaching, 205 East 42 nd Street, N. Y. 17. N. Y.; Ifofor Boating, 572 Madison Avenue, N. Y. 22, N. Y. and The Rudder, 9 Murray Street, New lotk 7, N. Y., and ask for their eatalogues of buating books. 1 mm quite sure that they have guide books to the Inland Waterway especially prepared for the use of small-boat owners making the trip. You might. at the same tine, ask then if during recent years they have published articles un this cruise- ['m pretty sure they have. You will no doubt gain much valuable infor. mation from such articles even though the trips they describe might have been made in metur buats. I would also suggest that you write to the Folbnt Corporafiun, Stark Industrial Park, Charlestun. South Carolina, and ask them if they still lave a cony of a bouk called "Foldboat Holidays."
You say you expect to hug the shore all the way down. That is a lung way tu hug anything, especially alung an unknown waterway.

## Has a fair loall ever been knocked out of your Yankee Stadium? Richard Baker, Fort Collins, Colo.

No. The Stadium has buen open thirtyone years and the looys have been trying all diss time, but ne one has clonted one unt. Some day some player will and he"ll becume a Basolvall lmmortal. Ty producers will fight for his signature; lovely girls will call up and say they are lonesome and ask hims to come and talk to them. There's sut a baseball player ins
the land whe won"t know what to duthat is, abusut the 'TV producers.

Where can I pan for gold in New York fitate" When 1 get on a man"a land, is there any danger of legal cumplications? Walter 0. Mosher, Binghamton, $\mathbf{N} . \mathbf{Y}$.

Ahcosy ran an article called "How tu Pan for Gold." The piece showed that gold can be panned out in ahout thirtyfive states. Sew lork included. You don's get much, but you get a few flakes and this seems to excite people. CaliCornia. Arizonal. Nevada are best places in the United States, and many peuple who know. What they are doing can actuatly earn themselves their vacation by panning out a few unnces in a week or two. Yes, there is danger of legal complications. Beware of anyhudy carrying a shotgon. He has not come out there to salt a mine. He intends to salt some. thing else, unless you take it away fast.

## When did Carry Nation die? Al. hert Highton, Guinesville, Fla.

Thank grodmess, you spelled her firsi nume right. When she was horn, her father-who wasn"t too well educatedwrote it in the family Dible as Carry. She used that spelling all her life. She died in 1911 and is lruried. not in Kansas, as you might thisk, but at Behton. Missourj. It was just seventern years from the time she chopped up her first saloon with her hatchet that prohibition was enacted in the United States.

## Who was Baby Doe Tabor? Paul Wing, West Southport, Me.

Don't ever ask that question in Colorado. or they'll throw yuu into the Royal Gorge. She was the wife of the tremenduasly rich H. A. W. Tabor and was the most glamorous woman Colorado ever protuced. They had a daughter named Mary Rose Echo Silver Dollar Tabor. A
mution picture was made of the bife of the girl and was called "Silver Dillar." Baby Doe herself died dramatically in 1935-as any native of Colorado will tell yout at length.

Where can we gel information ahout nighterawlera? Danny Allen and Bruce Mendini, Iron Meuntain, Mich.

Write to the Department of Agricul. lure. Washingtom. D. C. Go to spe ynur Cutnty Agenty. Write to the Zoology Department of your state university, at Ann Arhor. They erawl with information. both night and day.

My liral dogg lites her front legs unlil they are red. I have tried changing her diet from one dog food in another, but she still keeps it up. What is the cause and what is a gooll remedy? E. D. Sweeney, Seattle, Wash.

It may be a nervous disnorder which will pass. A temporary remedy is to smear her forelegs with tar, then bring her into the house and see if she comlinues to bite her legs. If she does, it will be nothing to what your wife will do.

Intead of a question, here's a letter with information. I don't have to, look up a thing. Blens her heart. It's from Mrs. Peter Vroknen, Westridge, N. J.

I want to tell you a story about my wonderful dog Chuck. a mungrel terrier. It's how the pitted his brains against a woodchuck. with the wnodehuck wiming. Once Chuck worked out something the wordchuck never thought of. Chuck watched untib ane of nur cows lay duwn near the woodchuck"s hole, then Chuck slipped up and lay down behinal her. Out came Mr. Woodchuck for a stroll. Chack preeked around from behind the cuw-['l] swear he did-and when the wordchuck was far enough away from Ite hole. our doye came not from belimil the cuw and nableed the umazed and astunished woutchuck.

If I had a dog that smart l'd be afraid to let himin the house.

The other day, in an argument with my friend, he said that Ziesfelfl did not dip a rich man. What is the truth? Arthur R. Pastore, Jr., Brooklyn, N. Y.

The truth is that you lost. Ziegeld died a pauper. He did not leave enough money for his own burial. Will Rugers puid his funeral expenses.

Personal: Each month I'm going to sive a prize for what I consider The Question of the Month. It will be an autographed copy of my book, "Jesss" James Fas My Meighbor." This momh it goes to B. C. S. Richardson, who will get the book about the time he does his magazine. I hope he likes borh. H. C.-


Packed lighty over the powder in a Super Speed shotshell, the exelusive Power-Sealing Cup Wad has a pleated "skirl" that expands when the shell is fired. This pleated skist hugs the barrel wall all the way to the muzzle and completely seals the powder gas behind the shot. You get more power, no shol deformed by hot gas, and a full, game-getting patiern. The base Cup Wad eliminates swelling-makes extraction much, much faster. Shoot Super Speed for all your long range shooting. You'll get better results time after time. All Wincherter priming is rust-proal, non-fouling and non-corrasive.


WINCHESTER SUPER SPEED

SHOTGUN SHELRE


Power Seding Cup Wad puts oll the power behind the pellets.
 DLIM Morilesp chimical colf. REN HATEM A, conn.

Recenti. I was slunding around a tackle shop in New
 l'd had on a foshing trip. when a stanger whod been listening in interrupled to invite me across the street for a cup of coffer. Since he seemed to have something on his mind, 1 weul with him. and when we were seated he said:
"This last Fourth of July was al theteday week pord at the oflice where I work, and so when Charley. an old salmonfishing sidedick of mine, telephoned to sugnest that we drive to New Brunswick and have a whark al the Northwest Miramichi-a distance of roughly seven hundred and fifty miles from New York, or fiftem hurdred miles round lrip-l maturally told him 10 go soak his heid. It would have meant driving like crazy for eight een or twenty hours, fashing about ten or twelve hours, then driving armother eightern or twenty hours to get hark home. He said okay. it was flusi an idera and he was will. ing to forget it.
"When I gol home that evening 1 told my wife atout Charley's call, and she said I was quite riyht to larn lim down. Thal kind of geoly stunt is all right when you're young. she said. hul not for anylondy your aget, I said. 'That's right. dear," but the more I thought alvut the unnecessary inflection she'd jut on that 'your' the madder $t$ yol, and dinally I picked up the: phone and cealled Charley and told him I'd go to the Miramichi with him over the Fourth. Charley said he'd call a guide he knew ups there and make the reserevations, and although my wife howled like a harnshee and predieled forty-seven kinds of disaster. we left late Friday night to avoid the trafte and drove straight through to Newastle, then up the river to the guide"s plane. which was right on the riverfront. The traffic had been so heravy that it was too late to sel up rods when we got sutuled. espectially since our combination host and guide said there were no fish in this streteh of the river at thit time of year. So we lurned in and grot a good night's sleep.
"In the morning the guide said he"d been thinking it over, and since wed come such a lone way for a single day of fishing he di decided to show us somphing suscial. He said there was a tributary river that was moslly ownd by a club, but that one part of the river, wilh sornce exceptionally good peols, was so inacerssible that it wasn"t fished more thap onte or two days a season. However, he said, tast year heid diseovered a way to drive in on an old logging road to within a milt or so of the river, and had hazed a fairly easy trail through the woods to the pools, and had been sort of saving this water for a special occasion. The prols should be absolutely crawlitig with salmon and grilse. he said. since the strean always gow a good early-July run, and be had the truck all ready to go.
"We finished breakfast, piled our gear in the truck and


Look off - down the main road for six or eight miles. then ott on a back road and finally down a harely passable trail through the bush. After a while the guider stopered the frum and we look off on fool through the woods. I have trouble with my arches and was weating a pair of specially made shoes that had set me back a cool sixty dollars. but the yuide had assured me it was an easy. dry trail and couldn"t damare the shoes.
"It was about eight oclock when we started walking of what the guide said would be all easy twonty-minute stroll 1o the river. We wern down along a low ridge, atid I kepl feeling we were on the wrong side of it. hal you don't question a professional guide ant woodsman who's lived sixty years in the country and whe couldn't possibly get lost in what is almosl literally his own back yard, Except that this hird not only could hut did.
"Six hours and mayhe ten or Iwelve miles later we were slogging throuph a muskerg in swamp water up to our knees. and it had long since berome appurent that my shoes, if mot actually water-soluhin. ware at besk mever meanl for skin. divitg. Ott cluthing was almost as latherd as our lempers and when we rested on a hummotk and got into a lairly bitter disclusion as to which way was north I varuely remembered a Boy Scout trick in which you use a watch and a matehatick for a compass. So I took off the wrist watch my wife had givell me for our tenth anniversary and fiddled with in for at while but couldn't recall how the stunt worked. and it wamn'। until several miles of muskeg and an hour later that I dis. covered l'd lost the waleh. I was also minus a Hardy St. George reel and a brand-new HDF line and a hundred yards of silk backing that must have fallen out of the packbasket I was toting, and I can't say I was disappointed when we stumbled out onto the same road we'd come it on late that afternoon, hecause I'd sprained my wrist in falling off a beaver dam and couldn't have held a rod anyway.
"When we got to the guide"s house, his wife told us that a man had how fishing right in from of the house while we were gones, and had killed four grilse and two salmon and had hat a congle of reatly huge salmon on, but had lost them. lieing al rank novices.
-We stagerered into leed and the next morning we gol ti]. paid-the guide and drove stemo handred and fify miles hatk to New York, arriving in Imme to get to work on Thas day morning. If you hear of anyone who's anxious to luy a pair of waterlogged. custom-made, sixty-dollar arch-preserver shoes, or who has a good wrist watch for sale cheap. I wish you"d let nue know."

I said I would and he said he was Jate for an aphointment and went, leaving me sluck with the chack for the coffer. I suppose that's what comos of lalking to strangers.

## it's news to men

HERES still another bue for vilamins. A stmanary uf 74 recem sudies showed that viamin deficiency is amony the causes of at lease 11 nervous ior mental disorders. The paper was witten by Dr. Rubert A. Peterman of J. B. Rurrig and Compary, and Dr. Koluest S. Goodhart of the National Vitamin Fenndation 10 a ad practicing physicians in recomnizing the sighs and symptums of stech nerbuts or mental disorders so that the needed vitamines may be supplied.

FOR OFFICE workers who want to brusli their teeth after lunch, or before heading for an appointment after work, Alere"s a toothbrush available now which resembles a pen and contains its own supply of paste. All you do is take aff the cup, exposing the brush, then twish and push the handle, and paste appearn between the hrimtlea. It coats a buck, and is sull hy The Williame Company, P.O. Bux 6l4, Oakland 23, California.

THE FIHST repori on cost comparisuns using the new "piggy-back" railway cars,
which carry Imadied truckn, rpeata that handing costs between fihicago find (Grepn Bay, Wisempin, are $\frac{10}{6}$ a ton less. An armexpertod additional saving: in the first three months of the truek-om-atrain operatan, not a single elaim for dormagen was jited.

DISCOVERIES uf uramium in Canada during the last year were so numerous Huat it may pases the Linton of South Africa and the Betgium Congo as the chief prulucer uf atomic ore in the world.

A MAN applying for a job as a riveler, or any wherer naiby uccupation, can now take a test which will tell whether his eare are sumerptihle to damake as the result of lowd nuises. Develuped by two University uf Michiman resararchers, the test determines the point at which the sulnjewh's ears herobine "overloanded," willout using naund interne enough to result in damage.

IF YOU unam color prints of pame birds which are nuitable for framing. you ran get a dozern 12 by 14 paintings by Louts Agassiz Furtes for $\$ 2$ frum The Stachpole Company, Telegraph Press Ruildimg, Harrishurg, Pennsyleania.

INCIDENTAL ITEMS OF LITTLE USE TO ANYONE: American men will spend one hillion dollars in barher shops this year; the imcisor teeth of the fucke: gropher grow at the rate of 46 inches a ycar. bua his constant gnawing keeps
them worn thwn; the world's first regular passenper helicopter service was intraduced between Cardif. Wales, and Liverpmul. Figiand, in June of 1950.

A E(ND) for do-it-ywarsels repairs, is an interesling new wallpaper that lian juat been pall on the warket. It is called Squares by Wall-Der, Inatead of having to work with those cumbersome rolle, you get bowen of fourleen-ineh squares of the pattern you prick, you have a choice of fifty-furr, pluts glue. All you do is apply the patse to the back of at bquare and carefully plare it ir position. If your local dealer dopsn't rarry them, or if you want more information, wite to M. J. Galloway, Foter Kolean Associateq, 42 W. 57th St. New York 19, N.Y.

A NEW fumd sreum, first developed in Englumd during the lnst war to combut Labor absenteeism, has now been released in the Luited States. Colled Kerodex, it forms a strong, invisible film uhich protents the Junds-and face-from hundreds of Hazards to the shin, even including poison ivy.

IF YOURE maraing some fall painting arourd the howse, we have a booklet that will give yot all the information abont paints. brushes, methods, etc., that yon will tever need. Just drup a line. enclosing your address to Arcosy Home Workshop. Dept. 4, 205 E. 42 nd St, New York 17, N.Y., and ask for your free copy of the Arcosy Home Paint Chart. * -

# WIN A"MILLIONAIRE'S VACATION" - -". - Shoot Chiof "white christmas" contest inspired by Irving Berlin's "White Christmas" color ay techncolor - a paramount picture <br> There's nothing to buy or try! Just drop <br> into your local men's wear retail store or department store, pick up a contest blank and write 25 words or less on where you'd like to spend a "Millionaire's Vacation." We'd also like you to see those really MAN MADE Sport Chief Jackets. Your retailer has a complete line ready for youand your son too! See him today. 




Cooking With Charcoal Indoors

## BY JIM BEARD

VOST people seem to think of thamal cookery as samething to be done mothoors. So it is. But lite lexture of meat cooked over coals and flavored with smake in sin sumeriar that the prement 1 remd is th devise ways to rook indoors hy ouldomer methods.

Many newly designed houses have spate for built-in charcoal tmits. Then, 100. there are outdour charcoal units that can eanily be moved to the living-roon fireplate during the winter. It's also possible to rig up grills and motor-driven spits in mosi fireplaces. For ilsose who hawe neither buill. in rharcoal unils rater fireplaces, the cher trif rotissarie is a near approximalion of ontdour meihorls.
Not lonez ang in the modern home of the Grath Dahbatroms in Pasadena. I saw a thiti-jn charcoal unit that impressed me as ideal for the man who is interested in roukery. This umit was installed wais- Jigha in ent alrove aff the kithen. It had its own minumey, adjuatable firehox, and clentrirally driven suit. On the wall has a niche is hold spits. grills and wher conking gear. [laderneall was a hin to hemith charrual ou hrictuets, and nearby a rarving lable. This unit was specially desipned by an archilent In hring ouldnor cooking induats hut in could probably be duplicuted ly a man who has a well-equipped home workahop.

Less anditions men can readily adan fireplures to the outdone cookinus tecls. niques. [t's jnportanl, of course. Ihat the fireplace be large enough to adeommodate a motordriven spil. The settop requires a dripping pan to "atch juives and fat. Fireplare cooking can be done surerestiflly with coals from a wood fire, provided the wood is not resinous. The more satisfiacters method is to build a fire of eharoud or briquets. Some types of outdoor grills. buch ath the fine ones diesigned and mude by General Farold Bartron of Riverside. California, can casily the anoved inside far winter cookerg. The legs of the Barton grilf ran be unsrrewed. and the firehox can be lifted into a fireglace along with the motordriven spits.

Witls ane of these indoor erilling ar.
rangements you can have a realls old-fasibl ismed Thatskiviny timmer turkey-onthesipil in trie early Amerinatu wle Oum fore falluer: simply hung the lurkey from the spit in fzent of a good bed of roals. put a dripping pan ander the bird and let it rook, turniag is alowly, unill it was golaten aricpl. Some of the spits were turneal hy land and others, more elahorate, were medhanially turned by clonkworks.

Whether you use some primitive duwire similar to this. ar mowe your entire gril! ints the fireplace, or have a roisserte, the method of pireparing and woking the thor key is the sames. Clean lae hird and urusa it well so it will stay firmily in patae on the spit. Do not stulf it. If youl like stulf. ing, wok it separately in a conserole and thavar it with the chopperd tiblets, withle of the turkey fat and some of the pata drippings, sprinkle the ouside of the turkey with salt and pepper. Some peopit leel you shosultmet season a hird untal it is canta:d, but I find hatat the sall roated righo inato the wian gives it a gond ernachy Havar. Ruh the lurkey all over with some satit. heribed huster foulder mixed with rosemary. tarragon of thyme, whinluever you prefert and spil it so that it balances evenly, Sith a meal themmonter intu the thinkest part of the breasit and be vertain that it doennil toubla the hone. Stat turning near a mediom thot fire and latate during the racking process will lierbed butter mixed with a litte dry white wine. This will give it a beautiful ghaze and make the sikin tastier than ever.

Ignore the advied of mosi mammerdial thermanmers or you will have overdone tutkey. When the internal heat ul hle lied reacher 1 īs to 180 degrees, it is done. Re. move the turkey from the upil atad let it stand ate a hoo plattes or cutting batad for lifteen 10 iwenty minates before you unve it. This mukes it even juivier and more Alavorfal.

Weamwhile. bake some of the driptings fram the dripuing pan and skim off most of the fath. You will want aboul al cupful of licguid. Combine this with a cup of heavy cream and at hali ent of toasted
arumbe. Let this heat logether and thicken. Tiste for keasoning and adr salt and pepper if necessary. Just before you serve, add d dexth or two of eognac to the satere.
Serve this spitted torkey with potatoes mashed up with plenty of ereamand batter and ropped with chopped parsley and paprikil. Add somet haked ar hoiled anions dresed with butter and good igrated wheese and phas some cranberry satuce. if you like.

Some prople are anti-turkey types, and insist on huving a big liunk of beef for Thankeqiving. This. toon is superb ngited and roasted to a rare juicy pirnkness in the renter and a prisp brown autside. Thege is botining like warcoal for enhuming the unique liavor aif good aged heef. If yau have a large mpil. buy five or six ribs of beef and have the huther anl them short. Save the whor ribs for barbacong ar
 and the excess fal renoved. No sense in having more drippings than mecesmary. Ruh the beef well with salt, pepper, rosetuary.
Now tor spition the heel. This is mot ath easy joh ans it musi balamee evendy. Hold it in yumer hamals firs and 1 ry to determine the exenter of its weight. Then spit it right flrough that area. Ralance il in your hands on the spit 10 see if the weight seens even dy dientributed. The beter it is balanced, the belter blo spit will revolve and the move even the rassinag.
If you ate using an eleatit rolideric, nosit mandela will nol take a large rib ronts. In lhal case have your butulher hone and goll the romst lor you so it will dit ynur model. And don't lea hime keep the rith bunes. Have him leave a lithe matat attached 10 then and cook thesu separately at another tinue, Jhas lifush thern with a litle butter, Worrestershire satue and mastard and broil like spareribs. They are delicious.
If you wie a meal therimbtiteter in wook. ing your roast bed. Jet it register abun 130 degrees for doneness. This will give you good rare beef. If you like it couked longer, let it go a little higher.
Yorknhire pudding was life standard dish will spited roust meals in the old days and it"\& Hatl the best wrunpaniment fur roast leef. to my way of thinking. It used to be cooked in the dripping patm under the meat. but it is far simpier to do it separately in the oven. To make it. beal four eqga until they are light and lemonrutored. Then atd a puine of milk and " half eup of liwer and blesud these with the beaten egge unal they are iboratighy mised. Seasom with a hall leaspoon earls af sath and pepper and let the mixture stand for about a half hour. P'ut some bi the beel drippings [rom the drippeing pan nonder the roist intu a that baking dima and heal the dish with the drippiagi for a few minutey. Then pour the hatter into *ite pan and bake in a bithergree oven for about fifteen minutes. Then reducte the heat to 3 in regrees attod finish rook ing attil the puddinat is bruwn and pulty Cul it in squares and xerve it with the roast beef, and potatoes which have been tried in the bepf dripangs antil they are brown and rrisp.

Onte yon get your indaur spiting aro lanqement rigued ut you*ll find yourseld drine all your roasting 1lks way. Bonedi. rolleal leg of lamb or thathon makes a deli -amas morsel dune uver hot coals, and of conrse any kind of poultry is belter suitted than coshed any wilher way. * *

## OPEN A NEW WORLD OF WHISKEY ENJOYMENT...

## Say <br> and be



# THE KILL OF 

## Captain Langsdorff was a cautious commander, but he couldn't resist trying to smash the convoy he thought the three small British ships were guarding. It was the biggest mistake he ever made-and one of the last

0N THE twenty-first of August. 1939. more than a week before Hiller's armies sperarheaded auross Poland. a Cerman porket battleships. bearing the name Admiral Cra/ Spee, quietly pulled away from her berth it Wilhelms. haver. Her taut bow nudged through the oily waters of the harhor. pushed down the buoyed channel and then burrowed defiantly into the broad gray swells rolling in from the North Sta.

She was under the command of Capuain Hans Langsdorff, a forty-five-year-old career olficer, with a trim mustache and wisp of beard. who slood. hands clasped behind him on the Spee's bridge. which jutted out from the ship's massive comrol tower.
To the fishermen who watched her cut through the sta from their hoats hobbing offshore, the Gira/ Spee might have been outbound ior a peacetime Irainity cruise. But Langedortl's secret orders from lhi German Naval High Command told a different story. He was to set his rourses and sipereds so that he could enter the South Atlantic unobserved just as war was deelitued. At that moment the Admirul Gra/ Spee was to become a raider. roving across the southern trade routes like a killer shark. ready to pounce on British merchantmen and strangle enemy shipping.
The Spee was wetl cut out for the jold of a raider.

Her six eleven-inch guns could fire more than 4.600 pounds of singing steel across the wide sea al a targel fifteen miles away. And her eight sets of diesel engines, gemerating 54.000 horsepower. gave her a speed of twenty-six knots, enough to outrun most heavier-gunned British men-of-war. Moreover, Langsdorft's fuel tanks were to be replanished at prearranged times and positions al sea by a Cerman tanker. the Altmark. which had sailed two days earlier from Port Arthur, Texas, with more thas 9.000 tons of oil. and was headed for the South Alantic with her well decks awash.

If Langsdorff turned south immediately and passed through the Fanglish Channel. his move. ments would have been spolted long before he could clear Bishop Rock off the southwest tip of England. So he turned instead to the north. and. two days later. to the west. Then he set the Spee on a southerly course which headed her sleadily for the warm waters of the south.

By the twenty-ninth of August he had his ship some 400 miles due west of the Azores. On the navigational chart spread out before him he ping pricked a position 1,000 miles further to the south, his first meeling place with the Alkmarh.

Three days passed. Then. on the first of September. the buzzing staccato of the ship's radio brought nuws that sent a wave of excitement through the

# THE GRAF SPEE 

BY LT. COMDR. THADDEUS V. TULEJA, USNR

ship. The war had started. At the same time the chuaky, black-hulled, oilladen Altmark hove into yiew on the southern horizon. The shijs apr proached earh other, thert steered jarallel courses. Cradled futl hoses were swung from the German tanker and connected up. Diesel oil gurgled into the Spee"s tanks. Atler lopping olt, all lines were returned rafidily to the Altmark.

Although at fiftern knots the Spee's eruising range was 10.000 miles, Landsedorf wanted to keep his tanks filled to capacity as long as it was possible to do so. The sudden appearance of a British warship might force him to race away al full speed. And at full speed the Spee"s furd consumption was quadrupled. So the Almurk, after dropplitg below the horizon, followed the raider southward.

On the twentieth of September. after the Spue was refueled for the fourth time. Langsdorff looked over his charls. He was now well in the South Allanlic. 2.0106 miles due east of tho de Jarneiro. Since the war began almos three werks hefore the German bauleship had steamed 3.500 sea miles withoul sighting an enemy merchanman. Langsdorff reasoned that the eargo ships. feartul of Cerman submarines and raiders, were burging the coasts before pushing into the open sea off Pernamhuco. Convinced that this was the case, he put the Spee on a westerly course and headed for the
coast of South America in the vicinty of Recife,
The days were warm and the skies remained clear, Visibility was urlimited. A telltale Irace of stack smoke: would not be missed by the lookouts. Yet day foltowed day withoul the appearance of king posts or masts. The month of Seplember was running out and Langsdorff began to wonder if lirilish trave had ceased altogether.

When be approached the Brazilian coust to with. in a hundred miles he got impalient. "Prepare to launch aircraft," he shouted. In a few minutes the pilot climbed into the seaplane. which rested on its catapult abalt the stack. He gunned the motor a few times and then signaled that he was ready. The catapult snapped and the plane shot out, and winged toward the west.

A cluster of gray clouds lay transfixed against the morning sky. The forenoon watch was set. Langedorff waited. Thers the phate returned with an electrifying message. There was a freighter moving along the coast of Brazil ahout fifty miles of Bahia.

The plane skimmed along the water and taxied close to the Spee While it was being recovered, lansedorff went to thee charr house. He pieked up a sel of dividers and measured the distance bee tween the Spee"s position and the Sreighter, which he estimated to be about fifly miles. By increasing


The Spee sent a las harrage of heavy whells, unleashed a swirling sereen of smoke, and turned her bow south.
his speed and adjusting the raider's nourse a lew de. grees, he would intercepl the target in two hours.

At elven odock a lookout spolted a vague column of smoke in the distance. Instanly langsorft gave a crisp order to sound pentral quarters. All rotutime work stopped. Cooks and shewats seramiled oul from llu galley to take ap their hatte stations in the sick hay. Others stood by as stretcher bearers. Thec ammunition hotsts were made ready for aetion and the damage control parties connected semtions of fire hose in cuse of an unexpected emergency. Offeera and men climbed into
the Spee's turrets. Doors and hatches whre closed tight. In a few minutes the ship was ready for her first engagemeral with the rnemy.

The Gruf Spee, operting the seal before her with a foaming fow wave rolled toward the enemy ship. Through his powerful glasses Lanasdorlf sturlierd the lines of his target. She was a tramp sleamer, about 5.000 Ions Hying the British Hag.

Turning to his sionalman, Langedorff said. "Tell utem to stop thuir rapines and do not use their wireless or we will opien fire."


Masifated by Churles Fters

The message was promply flashed to the British steamer, and just as promplly her speed slackened. When she was dead in the water the Craf Spee sulung about ant pointed her guns menacingly. Langstorf read her name. S.S. Clement, on the stern. Then harallecil another orde': "Boarding pasty away,"

As lines squealed through the blorks. Lhe froat was lowered. It bueked its way to the side of the captured ship, and the hoarding party. an officer and several saitors, clambered on hoard.

A hasty search was made for contidemial papers, but
these had long since heen thrown over the side in a weighted bag. Then the German boarding aflicer told the British master that his ship was to be sunk. The rrew was put in two lifehoats and given directions to the nearest point of land along the Braztian coast. The captain and his dhef empinetr were ordered to return to the Cerman batleship.

The British master was brouqht to lamsedorff who stood ereet on his hridge, neatly dressed in a white uniform. The German capain saluterl smarly and said in a disarming tone. "] ann sorry, (Continued on page (4)


Traserlat, technician, behind shield, handles hot stulf by remote-control levice.


Tracerlab ylass blower fanhions highly intricate tube comhination which will be used in Catbon-l4 work.

Top man Bill Barbour, 4 , 2 was old marn of eroup. Key men (far right) are Brinker. hoff, Hadley and Peatock.


Radioactive wate is suffed in leatl botules, embedded in cement and sunk at sea.

## HOW TO MAKE HAY WITH AN ATOM

Eight years ago a couple of young Bostonians thought it would be a good idea to put split atoms to work, and six months later they were flat broke. But today they run a $\$ 14$ million business selling radioactivity for everything from treating cancer to tagging mosquitoes

BY ANDREW HECHT

THE DUST of the A-hombis had bartly settled over Japan when a group of young scientists gathered in a Howard Johnson rustatrant in Cambridge, Massachusetts: to find some way to capitalize on this new and highly startling source of energy.

Most of them were young and most of then lad spent the war years working in nuclear research or ratar tevelopment for the government. All of them were graduates of nearby Massuchuselts Institute of Techuology. As a group they were long on experience but dreadfully short on prospects. The war was over and, as far as they could see at the moment, the world had singularly little use for boys who knew how to make a big bomb or assomble a complicated antisubmarine device. Their most exciting option semed to be to get a joh in some commereial or college laboratory and work al finding a mothod of waterproofing chitdren's mittens, adding a new yimmick to soap, or some equally exhilarating project. (Continued on prge 68)


at the time, hut I can't rumember any of them now.
"Prolessor-ah-Julian was an experimental physiologist at one of the smaller, bus less impecunious. French universities. Some of you may remember that rather untikely tale we beard here the other week from that tellow Hinckelberg, about his colleague who'd learned how to control the hehavior of animals through feeding the correct currents into their nervous systems. Well. if there was any truth in that story-and frankly I doubt il-the whole project was probahly jusprited by Jutian"s papers in "Comptes Rendus."
"Professor Julian, however. never jublishned his most remarkable results. When you stumble on something which is really terifire you don't rush it into print. You wait until you have overwhelming evidence, unless you"re afrad thal sommone else is hot on the track. Thern you may issue an ambiquous report that will matablish your priarity at a later date, without giving too much away at the momenl. like the famous cryptogram that Huygrans jul out when he detected the rings of Saturn.

$\gamma$OU may well wonder what Julian"s discovery was so l wont keep you in suspense. It was simply the natural extension of what man has heern doing for the last hundred years. First, the camera gave us the power to capture scenes. Then Edison invented the phonograph, and sound was mastered. 'Today. in the talking Gim. we have a kiud of mechanical memory which would be inconerivalbe to our Corefathers. Bua surely the matter camot rest there. Eventually science must be able to catch and store thoughts and sensations themselves. and freed thum bark into the mind so that. whenever it wishes, it can repeat any experience in life."
"That's an old idea!" sommone snorted. "See the "Feplies' in 'Brave New W'orld.' "
"All good ideas have been thought of by somehody before they are realized." said Purvis stverely. "The point is that what Iuxley and others had talked ahoul. Julian actually did. My goodness, theres a pun there: Aldous-Julian. Oh, let it pass!
"It was done electronically, of course. You all know how the encephalograph can record the minule electrical impulses in the living brain, the so-called "brain waves," as the popular press calls them. Julian's device was a much subter elaboratimer of this well-known instrumeth. And, having recorded erephral impulses, he could play them beck again. It sounds simple, doesn't it? So was the phonograph, but it took the genius of Edison to think of it.
"And, now, enter the villain. Well. perhaps that"s too strong a word for Professor Julian's assistant. Georges - Creorges Dupin-is really quite a sympathetic character. It was just that. being a lirenchman of a more practical turn of mind than the Professor. he saw al one that there were some miltiards of francs insolned in this lahoratory toy.
"The first thing was to net it out of the laboratory. The French have an undouhted Hair for plegant enginpering. and after some weeks of work. with the full co-operation of the Professor. Georges had managed to park the "playback" side of the apparatus into a cablat: not larger ilaun a television set.
"Then Georges was ready to make his first experiment. It would involve considerable expense, but as someone
so rightly remarked, you cannot make omelets without breaking eggy, And the analogy is exceedingly apt.
"For Georger went to see the foremost gourmet int France, and made an inleresting propusition. It was one that the great man could not refuse, because it was so unique a trihute to his eminence. Georges explained patiently that he had invented a device for registering (he said nothing about storing) sensations. In the cause of science. and for the honor of the French cuisinte, could he lep privileged to analyze the emotions, the subtle muances of gustatory discrimination that took place in Monsieur le Raronss mind when he employed his unsurpassed talents? Monsieur could name the restaurant, the chel and the menu. Everything would be arranged for his convenicace. Of course, if he was too busy, no douh that well-known epicure, Le Comple de-
"The Baron. who was in some resperets a surprisingly coarse man, uttered a word not to be found in most French dictionaries. "Thal crefin!" he exploderd. "He would be happy on English cooking! No. $/$ shall do it,' And forthwith he sat down to compose the menu, while (Georges anxiously estimaled the cost of the items and wontered if his bank Lalance could stand the strain.
"It would be intereating to know what the chef and the waiters thought about the whole business. There was the Baron, seated at his favorite table and doing full justice to his favorite dishes, nol in the least inconvenienced by the tangle of wires that trailed from his head to that diaholical-looking machine in the corner. The restaurant was empty of all other ocrupants, for the last thing Georges wanted was premature publicity. This had added very considerably to the already distressing cost of the experiment. He could only hope that the results would le worlh it.
"They were. The only way of prosing that of cousse. would be to play back Georges" "recording.' We have to take his word for it. since the utter inadequacy of words it sueth maters is all too well-known. The Baron was a genuine connoisseur, nol one of those who merely pre tend to powers of diserimination they do not possess. You know Thurber's 'Only a naive domestic Burgundy, but I think you'll admire its presumption." The Baron would have known at the first sniff whether it was domestic or not, and if it had been juresumptuous he'd hate smarked it down.

GATHER that Georges had his money's worth out of that recording, even though he had not intended it merely for personal use. It opened up new worids to hine and clarified the ideas that had been forming in his ingenious brain. There was no doubt about it: all the exquisite sensations that had passed through the Baron's mind during the consumption of that Lumal?an repast had heen raptured. so that anyome else, howeser me trained they might be in sudh mallerss, could sithor them to the full. For, you see, the recording dealt purely with emotions; intelligence did nol cone into the picture at all. The Baron needed a lifetime of knowledge and training before the could experience these sensations. But once they were down on tape anyone, even if in real life they had no sense of taste at all, could take over from there.
"Think of the glowing vistas that opened up before

Ceorges' eyes! There were other meals, other gourmets. There were the collected impressions of all the vintages of Europe. What would connoisseurs not pay for them? When the last bottle of a rare wine had been broached, its incorporeal essence could be preserved, as the voice of Melba can travel down the centuries. For, after all, it was not the wine itself that mattered, but the sensations it evoked.
"So mused Georges. But this, he knew, was only a beginning. The French claim to logic I have often disputed, but in Georges" case it cannot be denied. He thought the matter over for a few days. Then he went to see his petite amie.
"'Yyonne, ma cherie,' he said, 'I have a somewhat unusual request to make of you. . . ."

IIARRY PURVIS knew when to break off in a story. He turned to the bar and called. "Another Scotch. Drew," No one said a word while it was provided.
"To continue," said Purvis at length. "The experiment, unusual though it was, even in France, was successfully carried out. As both discretion and custom demanded. all was arranged in the lonely hours of the night. You will have gathered already that Georges was a persuasive person, though I doubt if mamselle needed much persuading.
"Stifling her curiosity with a sincere but hasty kiss, Georges saw Yvorne out of the lab and rushed back to his apparatus. Breathlessly. he ran through the playback. It worked - not that he had ever had any real doubts. Moreover-do please remember I have only my informant"s word for this-it was indistinguishable from the real thing. At that moment something approaching religious awe overcame Georges. This was, without a doubt, the greatest invention in history. He would be immortal as well as wealthy, for he had achieved something of which all mers had dreamed, and had robbed old age of one of its terrors.
"He also realized that he could now dispense with Yvonne, if he so wished. This raised implications that would require further thought. Wuch further thought.
"You will, of course, appreciate that I am giving you a highly condensed account of events. While all this was going on, Georges was still working as a loyal employe of the Professor, who suspected nothing. As yet, indeed, Ceorges had done little more than any research worker might have in similar circumstances. His performances had been somewhat beyond the call of duty, but could all be explained away if need be.
"The next step would involve some very delicate negotiations and the expenditure of further hard-won francs, Georges now had all the material he needed to prove, beyond a shadow of doubt, that he was handling a very valuable commercial property. There were shrewd businessmen in Paris who would jump at the opportunity. Yet a certain delicacy, for which we must give him full credit, resirained Georges from using his second-er-recording as a sample of the wares his machine could purvey. There was no way of disguising the personalities involved, and Georges was a modest man. 'Besides,' he argued. again with great good sense, 'when the gramophone company wishes to make a disque, it does not enlist the performance of some amateur musician. That is a matter for professionals.

And so, ma foi, is this." Whereupon, after a lurther call at his bank, he set forth again for Paris.
"He did not go anywhere near the Place Pigalle, because that was full of Americans and prices were accordingly exorbitant. Instead. a few discrect inquiries and some understanding cab drivers took him to an almost oppressively respectable suburb, where he presently found himself in a pleasant waiting room.
"And there, somewhat embarrassed, Ceorges explained his mission to a formidable lady whose age one could no more have guessed than her profession. Used as she was to unorthodox requests, this was something she had never encountered in all her considerable experience. But the customer was always right, as long as he had the cash. and so in due course everything was arranged. One of the young ladies and her boy friend, an apache of somewhat overwhelming masculinity, traveled back with Ceorges to the provinces. At first they were, naturally, somewhat suspicious, but as Georges had already found, no expert can ever resist flattery. Soon they were all on excellent terms; and Hercule and Suzette promised Georges that they would give him every cause for satisfaction.
"No doubt some of you would be glad to have further details, but you can scarcely expect me to supply them. All I can say is that Georges-or rather his instrument —was kept very busy, and that by morning little of the recording material was unused.
"When this piquant episode was finished, Georges had very little money left, but he did possess two recordings that were quite beyond price. Once more he set off to Paris where, with practically no trouble, he came to terms with some businessmen who were so astonished that they gave him a very generous contract before coming to their senses. I am pleased to report this, because so often the scientist emerges second best in his dealings with the world of finance. I am equally pleased to report that Georges had made provision for Professor Julian in the contract. You may say cynically that it was, after all, the (Continued on page 85)


Photographs for Argosy by Hy Peskin


Competition to determine accuracy of the Kentucky rifle (front) as opposed to standard morlern job.

## daniel oone's favorite shooting iron

## BY PETE KUHLHOFF



Loading operation: Dowder charge measured, poured into harrel hefore hall and pately wo into muzale. . .


#### Abstract

The Kentucky rifle was born of necessity and ruled the American frontier for a hundred years. Good as it was, there have been more lies told about it than about any other weapon ever made




HE chances are rood that when Daniol boons and his romades-in-ams were forming into the wilderness west of the Cumberland Monentains they might not have been quite so successful if it hadn't heer for a slender. grateful. delicalely carved weapon popukarly known as the Kerfurky rifle. The Kentucky rilln was the Ameriran piouress meat petter. his protector and fire lighter. It was flu most famous gran of ils lime. We have hoard it praised in thistory, in story. in fabte and in downight falsehood.
 ville. I hase traveled pyerywhere jus la examine line sampies. I hase suwd money to buy stray speximens. I have also fired many a round through them. That is why it pains me to read fanalasic tates about this sweed wetpon. The thiny is. the kentucky rifle didn't need any (ambroidery. It sood on its own merits as a slundy compumion to Armericas exarly frontermen.

Yet the lies kerp roming. Supural years ago while poring oner vornc whe matueripte in the Now York
 diary. of daily life amone the warly setulors, On one of the fapes here was at stament of how ont. 7ablariah Nigele, spotimg an Indian lurking armand a tree at :hon praces picked af Ghe Jhelsw and shot the redskin cleanly Hrough the head. I cortainly wontt say that no sum Shom was evel made. Once I watcond a friend ofme a window of his gut room and shool a crow with an in-
remensine 22 rilla at 502 medsured yards. A what like the one dewritend in the diary could happen perlapas once in a filetime. But al 300 yards the drop of the . 45 -calber round ball is more than six fert. making atscurate shootine with nermal sights highly problematieal, Lo say the lrasi. However. an animal the size of a dorse could sometimes be hit. and hull could be raiserd with a large hody of troops in close formation.

The Kenturky rille gave its mos impressive military demonstration during the last hatte of the War of 1812. the fighn for New Orjeans on January 8. 1815. General Andrew Jackson had an arny of abon! $1.000 \mathrm{~mm}^{2}$. Approximately 1.000 were armed with smoohlore nuls. krts. 606 werp Jean Lafitte's pirates. armed with cutdatsers and pistols. 300 were without firearms hat would Ine used in hand-to-hand lighting if the pomemy made the hrastworks. The remainine 2.100 were miliziamen [rom Kentucky. Tennesser and Louisiana-practically all sadsond frombiersmen-and all samping Kentucky riflas.

Against this foree the British mumbered 10000 velarans. ted by competrit officers under the command of General leakemlam. an able and experienced leader.

Crmeral Packenham did the attacking, but fomeral Jankon"s rillemens did the shootiag that counted. The: Datilu' atated thror hours. Jackson reported that he had lost sis men killed and seven wounded. The British lessess were approximately 2.100 killed and wounded. The Amerians operad lire (Conthued on page a


Excess patching monerl, patehed ball seated on powder charec, priming with fine powles-rifle is ready.


Off the foothall field, Ratterman runa a prospering investment firm.

# football's richest faker 

Nobody can make magic with a football like George Ratterman of the Cleveland
Brouns, who sometimes gets so deceptive that he even fools his own teammates.
But that's only one reason why he gets $\$ 15,000$ a season for sitting on the bench
by Bob Deindorfer

NOBODY in professional [ootball today trakes the money that a solid T-formation quarlerhack can earn in a season's play. Nobody, it might be added, has an easier job. And nobody, but nobody, choes as well as George Ratterman, a second-string T-formation quarterback.

Hatterman plays a warm Number Two fiddle to Otto Craham, the Cleveland Browns" peerless and indestructible T-man. It is an indignity the cocky, encentric and highly articulate twentyetight-yearold moneybags bears with unustal equanimity-at $\$ 15.000$ a year.

The reason the Browns pay Ratherman fiftern
grand for his superfluous role is that they want insurance agairst the day the thirty-three-year-old Graham retires-and Ratterman is about the best insurance they could have.
"Paul Brown [Cleveland coach] knows Hatterman is the best ball-handling quarterback in the business." says Red Strader, ex-coach of the San Prancisco Forty-Niners. "Evert with Graham, Brownie đidn"t want to let Raterman go some place else and beat Cleveland's brains out once or twice a year."

One reason Graham still dominates the quarterback play is because the name Graham means hig

"I won't call him the best," Ratterman says modestly of himself, "but then, do you know anyone better?"
business. When Cleveland comes to lown the attration is usually billied as Otto Gratam and company. It is hard to wrike oft mine years of publicity buikl up. As long as he can toddle. Graham will continue to draw lans to the ball park. But sitting on the sidelines drawing a healthy salary will also be Raterman.
"The Rat" looks like almost anything but a professional athlete. Sway-backed and round-shouldred, with long gentle hands and blond. curly hair, he has most of the features of a prettyboy. What keeps the 178 -pound quarterhack in husiness are the sly skills of the finest pair of hands in the game. Ratterman is an enormously effective passer. but he also does one thing no one else can do. Handling the ball from quarterback, he can fake his own teammates right off their feet, even wher they know what to expect.

Ratterman's tricks with the ball have a way of setting up a momentum all their own. What he does is domoralize the opposition. At first they feel fooled, then stung, and finally completely humiliated. When that stage is reached the score begins to mount out of all proportion to the lootball being played.

That his wizardry can move the ball and win games is shown by one example from last season. Ratterman's second with the Browns. With Graham playing all the way. Cleveland managed to squeeze out a $7-0$ decision over the tough New York Giants, Later in the season. with Ratterman running the squad, Cleveland creamed the same Giants, 62-14.
"Ratterman is the sweetest faker football has ever seen." one prolessional coach told me. "We all know he's the best, too. But if you print that, I'll send two of my biggest tackles over to get you. We have to sell the public the idea that our quarterback is the best in the business."

Anong numerous other observers who regard Ratter-


Currenlly, Ratterman is overshadowed by brilliant quarterhack Otto Graham. But Otto is 33, George, 28.
man as the slickest operator since Willte Suton is, characteristically, Ratterman himself.
"Look at it this way." Ratterman says. "Finks, Graham. Conerly, Van Brocklin, Thomason, Layne. Rat-terman-they all throw with roughly the same accuracy. Then look at hall handling. A lot of quarterbacks hand it eff without fumbling but they don't even fool the popcorll math. Now Ratterman. . ." He pansed with a pions look on his features.
"liatterman has been known to fool himself. I won"t adl hinn the best. But then, do you know anyone hetter?"

It was, as they say, a good question. It took hed Grange less than three-quarters of play to come to the same conclusion. In August, 1947, playing with a pickup team of college all-stars, Ratterman bamhoozled the Chicago Bears to a $16-0$ defeat. Grange reached for the nearest microphone. "This kid," the famous Gallozing Ghost declared, "is the best I ever saw."

Ratterman was not awed by his success. After the game he reacted in typical fashion. As admirers trooped into the dressing room to congratulate him, he aecepted the outstretched hands gracefully. His own was covered with itching powder.

Thiree days later Ratterman turned professional, and football hasn't heen quite the same since. Along with two bunco hauds and an active imagination that never stops working, Ratterman has broughl freshness into a sport that sometimes is inclined toward stodginess.

Amost immediately he was typed as the biggest screwball to hit the big leagues since Frank Sinkwich bent in huddles yodeling hillbilly songs. Before Rattermans first pro season had ended, one of the most frequent comments about him was simply: "Where the hell dops this guy come from?"

No one, it seemed, had ever heard of him before. It wats ohvious to everyone, however. that anyone who handled the ball as he did must have been one hell of a balfolayer some place.

That some place was Notre Dame, and Ratterman matrictalated there simply hecause the seat of All-American Angelo Bertelli's pants happened to look clean one Saturday afternoon in 1943. What might seem like an odd lurch of logic for anyone else made sense for Ratterman. It the time, he was playing quatterback for Xavier High in Cincinmati and playing well enough to get propositioncel by both Michigan and Notre Dame.

To choose between the two. Rallerman drove up to South Bend for the Notre Dame-Michigan game. At the trat of sixly minutes of black-and-blue football, he carefully focused his field glasses and surveyed the backsides of thrce vital participants. Bertelli's satin pants still looked bright gold, while the two Michigan quarterhacks britches matched the dull green Stadiun turf. Quarterback Ratterman. a reflective young fellow. had seen the advantage of a Notre Dane education.

In his freshman year Ceorge broke a collarbone over the padded skull of a varsity limeman during a friendly intersquad scrimmage. In his sophomore year, although he became one of Notre Dame"s three four-lettermen, he did litte to distinguish himself from other hank-faced scrubs riding the bench most of the fall.
"I completed four passes that season." he recalis now. "Two for us and two for the opposition."

Even in his junior year. 1946. when he had learned to feed the ball to backfield mates with the agility of a Iry-cook. Ratterman still started every game from the sidelines. Peace was wonderful, all right, but it cost
 varsities.

Anong three tons of rough. prewar talent shipped back to Notre Dame by the military was Johnny Lujack. an excellent quarkerbaek. Playing only a few minutes a game, Ratternarı revertheless managed to engineer Iwrlve of the last sixteen touchdowns the Irish stored and suffer only one pass interception all season.

Pass interceptions never hothered George much. In the final game of the 1946 season. alter driving the trish to all four touchlowns against Southern California. Ratterman decided to try for one last score. A USC defensive back leaped high in the air, spreared the hall and raced up the sidelines for fifteen yards. Out came: Ratterman.
"Why it heavens name did you throw the ball away to that SC back?" asked Moose Krause. who was handling the team during Frank Leahy's illness.

Ratterman pulled off his helmet and brushed a hand through his long blond taair. "Why?" he said dryly. "Hell, soach. he was the ouly man open."

Toward the middee of his junior year. it looked as if the eternal stbstitute would finally graduate to the starting team alter all. Frank Leahy decided that Ratuerman would open the 1947 season at quarterback. and Lujack. who could run. would move over to halrbark. The arrangement might have beett an idral ote except that Ratterman never gave it a chance.

Every few weeks Crorge and a lew other scholare look it upon themselves to visit a local pleasure dome known as Sweeny's Bar and Grill. The first time Ratterman missed his nightly dormitory check. his pernalty was a polite warning. Two weeks later he again made damp circles on Sweenys mahogany: For every minute after midnight a student relurned to the dorm he was kept on the campus for one full week. It was then almost twelyethirty, which meant six strafght weeks of confinment. Ratterman decided to stay out the rest of the night and hope nobody missed him. But he was caught coming in for breakias! and banished from ND for one semester.

By that lime Notre Dame atherities might have known their nimeteen-ytar-old star could pull his chestmuts out of the fire al a considerable advantage. Years before, Kinte Rockne had described a similar talent on the part of the legentary George Gippp. "Any time Gipp sits betwetr two students who score forty and filty on an examination," Rock said. "you can het he will some out with a ninety."

At the time of his suspension. all Ratterman needed 10 marry a beatiful home-town girl named Anme Hengelbrok was cash-and he knew where to find it. Professional foothall teams had all sorts of money. George signed with Bulfalo of the old Alt-America Conference. A mewspaperman later asked Ratterman what he got out of that first contract. "Two children." replied George.

Since that first contract signing, Ratlerman has piled up the experience necessary to stay in business for a long time to come. Twice in his first three years of pro ball his slick play carried a shabby squad of used-up old gaffers anel rawhoned rookies to the championships
of the old All-America Conference. In 1950 he pushed the last-place Yanks to third. Ahout 1951. the year he jumped to Canada. he would rather forget , but in the last two years with Cleweland. the Browns woll two additional division titles.

Now in his eighth scason of commercial foothall. Ratterman has been known coolly to veto any instructions passed down from on high. In one whopying showdown, when he was wilh Buftalo. the serond guessing on Ratterman's part got so bad that the Buffalo management hitd to decide between George and the coarh. The coach was fired.
"The owners givelh." diatterman told newspapermen at the lime. "and the owners laketh away."

Fver since that furga husiruess, associates have given Hatterman a wide berth. Even the front office has learned to tolerate Ceorge*s excmitricities.

One day late in August 1950, a sectetary sat in the New York Yank home office nervously wating for the late mail. All day long an angry job printer had been telephoning to ask for the last of the player information sherts, long antobiographical sarveys calculated to bring out the hest in a hired hand's background.
Two hours hefore the printing deadline the oaly one of more than sixty questionnaires still outstanding beloured to the new club gerarterbark. name of Ratterman. In his only other Iransaction with the team. Ratternan had belaved according to form, by filting in a player contract for \$20,000.

At therethisty the late mail arrived. A moment later the serretary hurricd in toward the executive's oflice. The manaqer's face soured as he read Rallerman's questionnaire.
"Question: What Forld Wer II battles did you take parl in?"?
(Continued on prge 79)


Fellow pro Ed Sharkey says of Georye, "Only a sport like Katterman can afford four children today."



# TRait END 

## He had traveled a thousand miles

 to kill, and he meant to do the job alone. But there were people who didn't want to see him die trying
# BY MOBGA LEWIS 

Mustrated by John McDermote

aLL morning he rode north with a atyong wind pushing him along, fanning the bay's tail into a caseade of back silk. Other than cloud shanows and wind stirrings in the brush there was no movement in this flat, gray stretch of sage and grass that ran to the far edge of the world.

At nooratime he stopped beside a pudkle in a stream bed, loosened the cinch and removed the bit so the horsc could graze. There was drift stuff for a tire and he made coffee in the lee of the bank. settled it with a shot of cold water ausi drank it from the pol white he had his smoke. A half-hour later he was in the sadde drifting steatily morth. Dusk was seeping over this gray land when the spot ist the distance began to rise out of the tarth and take the shape of a town.
He rode down the main street of Ordway, the weary bay kicking up dust pults in pook of lamplight. and turned in at the livery-stable rinway where a lantern hung on a poss llarved (Continted on page 90 )

Guz liere there: was mo sliplier, no way to extape Iter erone fire libill wiould come.


# WHAT'S COMING UP FOR YOUR WORKSHOP? 

Now that Do-It-Yourselfis big business, manufacturers are really out to make things easy for you, with all sorts of things from a carport-patio kit to wood that comes in rolls

BY ROBERT SCHARFF<br>Illustrated by Ralph Stein

LAS" year I did a colanm on all the nuw materials. tools and gadgels manufacturers wert planaing to pat ou the markel this yrar and which I thought would prove to lip good bets for home workshop fanaties lo investigalr. Since I got only a handful of letters tellin世 mar that I was a urarkpot and a lout in my advice | Fistitor"s Nole: At lase monn. Seharlf hat rectived only Fous viluperative letlers. Hape from one woman who clazms ibal Scharff has ruitued her life since lier hashand is now marrind to a sanding marhine. | I arcided it mish be a good idea to
 and preved tuts enough hashling machine shopos and faclopies to gee blearyeyed. which I did. In the course of all this I sume up with some fastinating nen desices and two grmeral olservations.

The liret is that the "fo-ityouself" lousiness hate dhe. cidedly left its squaky adoleseenes hehaind and is blos. soming into a man-sized operation. 「atsi war I found nany manfaturnss who were still fainly alraid that

Whe delightful bublule they laced latehed onto was in imminent danger of bursting in their faces. The prospect of lraving several thousand Handee Home Buzz. Saws rusting on the shelves lelt them nervous indeed. This year, however, almost everyone has finally come to realize that the do-it-yourself is mo passing fad or craze; it is a way of life. Once mers are hillen hy the idea that they can hoolv fis and huild things themselyes better and rhaper than they oftern cat bey them. Hey serm to slay bitten for good.

The other observation is that buyers are lereming sophisticated. Manufacturers have been quick to learn they no longe's wan gul by, producing latge. elaborate pheces of chromed-up tooling that have all the driving power of a squirrel racting on a tresadmiti. Thae buyer has become aware. As far as I could find out in my wanderings the trend is desidedly for theaper machints with greater versatifly.

If this sems liku a swecpibg perneralization lel's take



Carport-patio kit can the set up ly two men in just four hours.
a leok at a few of the belter new items that will be on the market shortly.

While in Minneapolis 1 had a chance to operale Shopmaster's new floor model, eipht-inch. lilting arbor circular saw. The heart of this tool is the builtin ${ }^{3} 4$ horsepower torque motor which nfeds no V belt and no pulleys.

The advantages of the huilt-in motor are numerous. For one thing. the mutur arrangement means more salety; for another, it means greater speed of operation. Lastly, because of the cheapmess of materials and engineering, it means less cost to the huyer. It's hard to beat an arrangement like that. Complete with stand, table extension, built-in motor, cord, stop, rip fence, saw blade and guard. the saw retails for under a hundred dollars. The next time you are in the market for a good saw it would be a wise thing to take a hard look at the eight-inch Shopmaster model.

Two other saws I had tested were the Dremel jiysaw and the Burgess bandsaw. The Dremel has a built-in motor which drives the blade directly through a rockerarm mechanism. Without getting technical. the so-called "rocker action" will put an end to excessive blade wear and helps to eliminate blade buckle and whip. One feature I particularly liked was the four-way blade holder which allowed me to set the blade to cut in any direction without interference from the frame when sawing long stock. The saw cut $1 / \frac{1}{2}$-inch softwoods without diffecuty but balked when it was used on hardwood stock over an inch.

The advantage the light-weight Burgess handsaw has over similar types is its portability. It can be easily carried anywhere and simply plugged in for on-the-job cutting. This feature is especially important for you apartment-house woodworking enthusiasts. The saw's built-in motor has a three-wheel blade drive arrangement. that gives the small units the prower to cut wood up to $35 / 8$ inches thick. The jissaw sells for under $\$ 25$ while the bandsaw can be had for $\$ 34.50$.

In Pittsburgh, I had a sneak jreview of the new Delta scroll saw. This tool is actually an attachment for an
eight-inch tiling arbor circular saw. With it, in addition to straight-line sawing, you can perform curved cutting opralions. Since a tilling arbor circular can saw up to forty-five degrees. the scroll saw attachment also lets you cut angle curves. To my surprise, [ found it would do everything else a standard scroll saw would do-saw. file and sand wood. metal or plastic-yet it costs less than half the price. The complete attachment will retail for $\$ 14.95$.

To add to the versatility of their tools. several manufacturers have designed special attachments that provide all the advantages of portalle power equipment plas the added value of a stationary setup. Skil Tools and Porter Cable. for instance have a rig in which a portable saw can he easily converted into a precision titing arbor model.

To complet your portable-slationary workshop, they have a drill press utilizing a portable drill. a mounting bracket that ronverts a portable sander into a bench type, and a horizontal stand which makes a portable router into an excellent shaper.

Black and Decker have added a couple of new attachments to their drill line. With their new screw. driving attachment, you can drive \#5 to \#9 slotted or Phillips Head wood screws with ease. The other attachment is a hole cutter that culs holes up to $1 \frac{1}{2}$ inches in diameter with a $1 / 4$-inch drill, $21 / 2$ inches in diameter with a $1 / 2$-inch drill, in any materiul a hacksaw will cut. The screw-driver attachment sells for aroutd \$10. The hole cutter starts at seventy-five cents, and price increases with size.

Of all manufacturers. the Mall Tool Company of Chicago has the greatest number of attachments for your $1 / 4$-inch electric drill-Lwenty one in all. Among the nower ones are a belt sander, an angle head. a slitting saw, a hedge trimmer, speed-control clutch and a reciprocating or portable jigsaw.

Duro Metal Products Company has introduced a new, unique motorizing workshop principle. The heart of this idea is a new patented "quick-change" motor-mount attachment which permits one (Continued on page 86)


Sandpaper lakes a new form. Residue won't clog mesh, which has an abrasive coating on both sides.


Hi-fi fans now have their pick of pre-fab unite Hat house latest sound equipment. Kit here is for bafle.


Most attachments fit all stanlard mokes ant mortels. Orbit sumder adapte to any $1 / 4$-ineh eledtric drill.


Scroll saw here fits tilting arbor circular saw, cuts angle curves; also saws, files, sands metal, plastic.


Speciulized shop operations are made easy with lowpriced power-tool attachments like this angle head.


Drill stand moantis on wall or bench, eonverts $1 / 4$-ineh drill to home drill press; assemhles for southiaws.


Gun expert Kuhlhoff and the author flush a springy pheasant from the protective cover offered at Nilo Farms.

# pheasant where you want them 

Hunting pressure is so great these days that it often takes a man longer to find out where pheasant are than it does to go and get them. That's the very problem Nilo Game Farm was set up to lick

BY LARRY KOLLER<br>Photographs for Argosy by Joe Coudert

AGOOD part of the upland gumer's year is spent not in shooling game birds. In's spent first in looking for birds to shoot and then in finding an arca where unsympathetic landowners won"t rut him out before he gels a chance to load his scaltergun. In the past few years. there just haven't been enough birde to go around, and the amount of available land
has shrunk almost as fasl. As a resull, public shootius is rapidly bevoming passe in many areas of the country.

But the pieture is not all black, Lhanks to a couple of promising innovations. One is the private shooting preserve, where for some $\$ 5$ a bird the price varies according to locality! a huntur can spend a day in excellent cover withoul competilion, and (Turn page)


Above, left: Old multicolored John Pheasant himself. Above, right: Keeper rounda up birds for the day's humt.
Betow, left: Nilo Farms sprawls over some 500 acres. Belor, right: A Nilo huntiny doy stalke his quarry



Kuhlhoff and Koller pick out guns for day's shoot.
with the assurance that he will get his money's wortlo. For shooters who can afford the comparative luxury of such preserves, there is nothing better, But for less privileged ducks like you and me, the problem is lougher.

However, a less costly and thoroughly attractive alternative was discovered by Gun Editor Pele Kuhlhoff and myself, thanks to John Olin, president of Olin Industries. One day last Februasy he loaded us into the huge Olin DC-4 and whisked us to his new experimental farm near East Alton, Illinois. There, we had our eyes opened.

When we arrived we lound a lovely sight, a larm of normal size, a bil over 500 acres, in the llat heart of typical Illinois corn and bean country. But Nilo Farms (Nilo spelled backward is Olin) is as untypical as any you will find in the entire midwest. It is a larm, trae; but it is also a haven [or birds-meaning old John Pheasant-to live, feed. hide and do whatever these foreigners like best to do.

The primary function of the Nilo experiment is to show fellow farmers how to improve their finances hy adding this new crop to their land-a crop that will not interfere with regular production and one that can be harvested during the normal ofl-season. The Nilo people have undertaken the project with the hope that their experience may show the way to a new concept of hunting, beneficial to farmer and hunter alike.

For two days Pete and I walked the covers of Nilo Farm. We tramped waist deep in standing kallir corn, millet and other farm grains that pheasants love both for food and for their protective value. And even though we were hunting at the tail end of the season there was enough cover to make the birds diffieult finding for the pointers. We worked hard to fill our two-day limit.

The well-trained dogs were a pleasure to observe, Like all pheasants, these Nilo Farm birds soon learned the safety of staying on the ground, skulking and running through the tight cover, making the dogs really sweat to pick up and hold scent. But the cover was cleverly "strip-cropped" so that it alternaled with open ground at about 100 -foot intervals; thus the birds were unable to gel too lar before hitling an opening which forced them to fly.

From the viewpoint of the shooler who values goon dog work as much as wing-shootirg, this was an ideal selup. presenting a vivid contrast to the methods used in the corn country of the Dakotas and other western states where a dog never has a chance to corner or pin his bird in a tight point. Cornfield shooting means driv-


Tractor-trailer hustles hunters to place of business.
ing-taking half of your big group of hunters and posiing them at one end of a big strip of corn, then sending the other half to the far end and driving the birds back. The pheasant. wise ground-hugger that he is, will sum down the rows for the full length of the fied before be is forced into the air at the end of the long strip. Naturally, the shooters stationed at the end get some fast action for a few minutes and usually net plenty of birds, But upland gunners are pretty much in agreement that pheasana hunting under conditions which permit skillful dog work gives much more kick to the day's gunning.

The emphasis at Nilo is on the use of dogs in all gunning. I doubt if any shooter will disagree that having a good retriever along is an important conservation measure in tracking down and recovering cripples. The sportsman is obliged to recover every bird that's hit, but without the sensitive nose of an able retriever, pheasanl losses can ofter be as high as fifty per cent.

We did plenty of hunting, but we also did a bit of fistering, and we learned how the Nilo Farm experiment worked and how it can be carried on by other farmers. The Nilo people, in fact, have prepared a Nilo Builetin, sort of a blueprint of their operation, for the use of any farmer interested in stocking his own preserve. Here basically, is the system.

Two farmers with adjoining property will agree to devote some part of their joint acreage to establishing pheasant cover. Under Illinois law the minimum requirement for controlled shooting areas is 230 acres; so in some instances an individual [andowner wontt lave enough property to meet this minimum.

To begin their joint operation, the partners must first decide how they want to obtain their stock of birds. It can be done ifs lhree ways: (1) by rearing day-old chicks, (2) by starting with hall-grown biods, (3) by the purchase of adult birds. Using adult birds is questionable policy. The cost is high and there is no opportunity for the farmers to utilize their own labor and facilities for profit. Some farmers, without the experience of raising chicks, decide to purchase half-grown birds, but the best plan is to start with chicks, following the details listed in Nilo's luolletin. Then, when harvest time is over, the shooting season begins and the farmers can devote a large part of their time to such things as guiding parties, planting birds, and handing dogs-all at a profit and under amicalle terms with hunters.

The pheasants may be raised by one of two methods. One is by putting them in a wite entosure open at the

"The General," a rare domesticated birt, eat: lunch.
top. Here, the birds are frought up cardilly, like chickens. When the hunting season arrives. the farmer will take the birds into the woods. They will of course, have the instincts of wild hirds, bul they will be unable to Ay well because of fragile wing muscles.

The otker method, used widely in the East and really We preferable one, is to enclose the pheasants in the pen with wire over the lop. The farmer then brings dogs into the enclosure every now and then. The birds. frightened by the dogs' presence, flap around trying to fly, and develop their wings. Thus, when these birds are set loose, they will give the hunter a better time.

Figures show that a two-man leam of farmers can carn $\$ 3.150$ by Lurning over patt of their land and time during the slack scason on the farm. Charges consist of a unit price per bird or a daily fee, with a guarantee of shooting at a minimum number ol bieds. In Illinois, as in mosl states, the shooting period in controlled areas is fairly long, usually from October through February. This gives a farmer ample opporlunity for success.

First concern of the farmer is how to hold the birds in his land withoul having to build a costly bird-tight Ience. Present experience shows that planting the kind of cover that offers food and protection at the same time is a proper safeguard. However, for added insurance a strip hedge called Sericeu Lespedeza, planted around the boundaries, makes an effective barrier and at the same time affords additional cover.

The basic idea in "strip-cropping" the cover throughoul the farm is, of course, to provide exactly the right type of cover to take advantage of the pheasant"s matural instincts to skulk and hide from his natural enemiessay, the fox, coyote or just plain outlaw housecat. If the birds find any great area of unbroken cover--tali grass, weeds or domestic crops--it takes the services of a mighly good dog to nail one lightly enough for a staunch point. In a 100 -acre field of unbroken cover it isn" unusual for a hird to keep ahead of a pointing dog for an hour or more before finally taking wing-if ever!
"Stripping" make's practical hunting grounds out of cover that normally would be wasted time for a humer. Millet, kaffir corn or some olher heavy-slalked crop, planted in a 109 -foot wide strip, will give the birds food and protection. The strips are then alternated with a short grass crop such as alfalfa or clover, whith the farmer normally keeps closely cropped - [orming relatively opeat areas that the birds are reluctan to cross with a dog on their heels. These open areas then become

Identifying lay is removed from dearl phearant's leg.

"Elopping stips" which will hold John Pheasant in check at the edge until the dog makes a firm find and the gunner comes up to flush.

Another protlem-present to some degree on Nilo Farms-is the tendency of the pen-reared birds to pick at each other until there is a noticeable loss of piumare, particularly the tail Ceathers. None of this helps to make strong-flying birds, or an atractive bag. Eastarn farmers combal these cannibalistic tendencies in two ways. One is to nip off a bil of the upper mandible of the beak. just enough to permit the bird to eat, yel impair his nipping habils. Anolker method is to "ring" the bird by passing a U -shaped staple between the two halves of the beak, then forcing the open ends into the nostrils. This doesn't interfere with feeding but docs prevent the bird from defeathering his penmates.

A day at Nilo stants easy-like with the release of pheasants just after sun-up. Charley Hopkins, chief of conservation for the Olin outft, explains over a cup of coffee how the ground is to be worked. You put on the white vess, supplied as a salety mpasure, and load your gear into the station wagon. By the time you arrive at the showting area the birds are well dispersed and you turn the gointers loose to pick up scent. Then your day's hum is the same as if you had stepped into an enstern corn lol to find your birds.

The pointer swings downward and charges smartly through a heavy strand of kaflir corn. Midway he checks, changes course into the wind and hounces through the cover, following the wind-drifting scent of the bird. He hesitates a bit, head high, tail gently swinging. The bird has moved on-bul only a few yards-to the edge of the strip of cover. Your dog breaks downwind, circles into it in a short arc and slops sudderly and rigidly a couple of yards from the raged edges of corm. He has the bird nailed now and you move in to Aush. Almost under your feet a flurry of wings hursts through the dead grass and stalks as the brilliant Chink climbs into the air. You let him straighten out a bit, then you swing the little twenty ahead of him and touch off a load of $7 \frac{1}{2}$ s. Feathers pulf out of the longe tailed target and your bird drops. [t wasn't a tough shol. you reffect, reloading the gun, but it might have been if you hadn"t known where the birls would be.

This Nilo Farm operation is nol only a pleasure for a day's shooting. It could be the forerunner of the upland gumer's Ulopia--enough birds for everyones, and plenty of good land to hunt them.

## $\begin{array}{lllllllll}\text { N } & O & V & E & L & E & T & \text { I } & \text { E }\end{array}$

## STEP DOWN TO TERROR

The girl and the young man were uncasy at the door of the cheap little night club, and for a moment they felt just an edge of fear. Then, like the coils of a snake, the jungle closed around them

## by John McPariland

Hustrated by George Hughes

ERIKA LUNDON and Arthar Johnstone Mitchell walked into the Cirque Room of the Fairmont Hotel about eleven on this warm spring evening. People turned to watch the couple as they passed down the broad, plush-marble-and-tradition corridor. Their glances were long at the girl because she was lovely, and brief at him because he was with this lovely girl, Her hair was short, with a kind of sunset glow of red and gold. She wore a white gown that began simple and straight above her breasts and swirled wide and frothy around her long legs.

Erika London. a senior at Berkeley, very lovely and wery happy with life. The boy with her looked as if he befongerd beside her, and in the easy pattern of their lives he did. The Mitchell family had bought land cheap eighty years ago and had held most of it. What they had sold was now covered with apartments and stores, and it had brought comfortable trust funds. As a man. Arthur Mitchell was better than ordinary-tall, straight, the tennis player and the oarsman rather than the lootball kind of college man. He handled himself well. Since he had heen a small boy he had beer taught that handling one's self well was next in insportance to having been born to money, and possessing a strong. handsome body.

A minute or two after eleven. Erika swung the long legs over a bar stool at the Cirque, lifting the frothy (Turn page)

Firika gtood, and Kuppfen watrhed her. "Get 'em off, whick*" he told the frightened girl. "I'll give you at little strip music."

skirt with long. slenter fingers. Arthur ordered otid-fashimeds and turned to look at her. He was wondering. maybe a little tono carefully, like one of the trust-fund athrneys ticking ulf points on his fingers. whether he linved Frikat rmangla fur marriage nuw rallet than in annther year ur twi.

He was 1 went $y$-threc and she was a lew mentlis oves twpoty-one. Arothal them nuw was the phleasant carelesshess of the Cirque, and armund it was the careful pleasantness of the Fairmunt. high on Noh Hill aluwe the glory of the night over San Francisco. They were yaung and fine in the white marbie cucons of the Fuirmont; the trust funds were ruws of figures and contracts and solidly-filled safety depusit luxes at the AngloCalifornian. The society editors at the Exuminer and the Chroncle had penciled the index cards that bix-city society editors keep on the new, young. and sume day important people. On Erika's naaty typed cards they had each written: "maybe Art Mitchell-Russian Hill Mitchells."

Thlue barman smiled and huwed slightly as the set their old-fathoneds bufore them,

And Arthur Johnstune Mitchell was thinking that, the year before. Erika"s hair had been long and lef"d lad a erewcut. They seemed to walk together through these first full-grown years, through the change of the: right things to do and the right places to bee. Maybe it would be better not tor wait another year. He didnt see low he could wait. Erika was lovely beyond words.

DOWN the steepness of Masom Street from Nob Hill, over un OFarrell a dew falucks is a ratty small bar called the lhada. Last year it was the Desert Clulh and it has had other names thruagh the years hark to the night madness that wht San Franesico when the streets belanged to the sailurs and soldiers.

There were three young men and a girl in a booll in track. The gir! was mostly called Honey, and the two young men. who didn't much matter, usually liked tu be called Kirks and Gage. The other yuung man was called Big Tom.

Honey had perfect skin, creamy as if it had not guite lost last summer's tan and short. glossy black hair with a heart-shaped brow line.
"Go! Go! Go!" Honey was chanting. her small fists pounding the booth table. Alnast whispered. a low. breathess frantic chant that beat into the juke-thox irenzy. Kicks was watching her, his mouth hanging open and his lips wet.
"That's it, Honey chick, that's it-" he said.
"Go! Co! Go!"
Big Tums stretched his louly. He liked the feel of his muscles tlexing.
"We got to make some muncy tonight, Kicks. In'm tapped. Gut to gon wat on the streets tonight."
"Like you say, Ihig 'lom. When the joints close, luli? About two?* Kicks was a nervous type, with a griming-dog smile that came and went between werds
as he talked. Lean and buny, with dank hair in a duck-tail cut.
"The tell ahout twn, Fight quirk. I need some fun money because this is gro ing tor be a fan night,"
"The streets art tom damm ham this early, Dis Tum. It's wily eleven--" If froze, the grinningethg smile hevituting un his white, thit face. Big Toms: fial wath apainst Kicks' cheek, turaing sluwly, and the brazil-nut knuckles pulled and twisted the white skin.
"Dun't troulsle me. man." suid Big Tom. "I can get my fion lisiening to you making hurt music. Don't trouble me none, man."

THE boy catled Cage watched. smiling. Almost anything was fun. Seeing Big Tum smash up an Kicks would be fun. Anything was fun when somebody else was being hurt.
"Ga! Co! Gu!" The frantic. whispered chant ended with the click of the juke bux. Humey furned great shining eyes toward the boys. Her small tongue crept sut between the almost perfect arched-bow lips.
"Put another round into the beat hox, boy, before sume apple gets to it and plays sumething out of nausea." said Huncy, her woice soft and clear. She lwoked like sumelsody important's very heautiful and highly competent secretary in her trim. simple suit and white shirt with a narruw black buw tie. Honey was ninetem, and the big-faced prostitutes of the human-siewer hotels of lluward Strese were innocents compared to Honcy.
Hige Tom rublued the hoed of his hand acress Kice:s" mouth, chuckited, and dropped it to the table.
"l'm restless, man. We're guing unt and make us some money, Then we'll go to the fine places until they cloge and ther we"ll pad nut with plenty of the ktufl. Plenty, man. and we"ll pad for a cuuple of lights and darks. The long. sweer dive intu the green water fur those many hours, man." Big Tom was smibitig.
"Guing to wait for Gopher?" asked Gage. "He might raise up something un his jrowl."
"Yeah, that boy is the cool mene. He'll find sumebaly to work un," said Kicks.
The police records of San Francisco and the Peninsula citties listed Big Tom, Kicks, Gage and the Gopher. They had no record of Honey. Not yet.
Big Tonn. Twenty-two now. Arrested at nineteen for seling marijuana cigaretter at the high school in the Twin Peaks neighborhood where he'd been a foothall star the year before. Came from a good upper-middle-class family, and his father was an assistant cashier of an matying branch lank. Probation for the boy, The stutents, boys and girls, who had known him at high school could have added mure to the record. Big Tom was a brutal bally, a sadist who had raped at least seven of the high schoel girls whe had gone on dates with him. Possibly thirty more had subnitted will ingly. Big Tom Kuppien.
Kicks. Tweaty-three. His real name
was Harold Johuson and ak times he wurked as a nomanion jiann player. His arrests had been for petty theft. bad checks and assault. He"d served four manthe in the ematy jail.

Cage, He was twentyolwe and hie real neme was Patane Frevgueter. the con of ad divorate whan held ant percutivis jult in a sucial service agency of the Sate al California. She tomk lim to a peychiat trist when lee was sixters. and in the six years since then lic trad been in analysis mach of the time. Ifis two arrests were Joth for conmributing to the delinquency of miners; each of the girls had been sixtera. Buth charges had heen dismissert.

The Gupher. In some ways he was the must interesting buy of the four. His troubles with the police al San Francisen. San Mateo and Burlingame covered drunk-driving. three arrests; possession of marijuana. two arrests: assault. two arrests; contributing to the delinquency of a minor. three arrests. At the moment he had more than twenty worthess checks rul, cashed in bars, hutels, nigho cluls and stores. The Gopher-Frank Wurth Williams-was twenty years old. hat he fooked at least twenty-six, and he had the casual. certain charm of a young man whu had spent his adolescence traveling with wealthy parents father than in Juvenile Hall a: San Franciseo.

Frank Wortl Williams wore a suft, charcual-gray hat wish a high crown, a laght vicuna tupena!. a tat-collared shirt. a weld-draped, blue-gray suit. His face showed a friendy boytionese and his manners were careful copies of those uf motion pieture achors. He spert almoxt every afternoun in a picture theater. Lemthan middle heigha, solt-spoken. quick to laugh, easual but determined-this was the Gorlhes. Frank Wortl Willians.

At twenty mimates past eleven lip was: speraking to Frika L andon at the loar of the Cirque Room.
"Yas dropped your glave日 girhe" he said, smiling. Sie liked the way lie used the wurd "girl."
"Thanks." And she smiled. Their eyes met for a lew seconds and she looked away firat. Arbhur Juhnstone Mitchell glanced across Erika at the stranger. He troked all right and he didn't luok like an intruder.

HAVE you noticed the drummer in this little band here"" anked the Gopher directing the question to Mithell.
"Nor especialay. Is he suppused to be good?"
"Gut a bit of style. I like him."
"Are you interested in music?" asked Erika. The young man had an odd quality of charm.
"Very much." said Frank Wurllı Williams. "Progressive stuff mustiy. Sumb Chicagu Dixie fur variatiuns."
"Whom do you like?"
"Oh. Brubeck, of course. Shearing": new stuff. The Norva trios is fine. ${ }^{\text {p }}$

Mitchell urdered drinks and included the stranger in the round. By the time the drinks were finislied and the Gopther had bought another rutind it was mid-
magh and inlroductums nad been made. The slight. well-dressed young man was Derek Fielding, he said, and he was up in visil friends in Mill Yalley. He was a graduate student at Cal Tech, majoring in aeronautic design. Plausible, friendly. charming.

At five minutes after nuidnight Erika and Arthur agreed to join the Gopher at a "pleasant little place just off an alley, where some kids are taing some really inforlant adverllures in mazic. Astonishing kids."

To Erika it snumed interesting and a little exciting. There were dozens of liulpo combes in San Francisen places. and some of them were worth discovering. It was the kind of adventure that was [un.
"We'd take you in my car." a pologized Arthur. "bus it's an XK--"
"Oh. a Jag. Wunderful car. But only two seats. I understand." The Gopler smiled. "Tell you what. [ promised to meet some friends at a dreary jlace in OTFarrell. We can all meet there and go nver to hear these new sounds. A sput ralled the Bada."

Erika and Arlmur looked at each nlther in brief rupestiontag. A siranger, a strange place, a stratige crowal, Rut then this Derek Fielding was a Cal Texh graduate stadent. he dressed ile right way, lalked the right way. and he had charm.
"Fine," said Arthur Jeshnstone Mitetell as his Firika whirled smontilly from the strol. "Jurt tell tre law to find it. We'd meen these fritends of youts and gon on 11 this music cellar frum there. Riglto?"
"Right," said the yourg tram, his stoft. liright eyes holding the smile of his sofi. amused mouth.

Mitchell and Erika stupped far a mul ment before they silid into the smonalh emmpactness of the laguar open twaseater and looked at the lights of the tuwn beluw them. at the lights uf the Bay Bridge beyond,
"Lovely," sain Erika. A spring nigh, and the top of Nob Hill fever becomes cumaton new ardinary: the enchantment uf the cify sproads before you tike a sparking. magic valley.
"Sperms like a goud man." sait Arthus Mitchell.
"He has a sort of charm." Erika *aid. still leosking toward the sparkle of the town. "F"umy, there"s an eagerness to his Derek that's stzange. A cat - why a cat! Oh. 1 kanw-like a eat walking neaty hrough the Hower:-"
"Tuward a bird?"
She laughed. "Let's go down and meet these prople. May be sume Berkety preople we miglot knaw."

They gut intu the fow, deep seats uf the car.

## GHAPTERTWO

AT' A phone beonlo in a corridar of the lwiel Frank Wurill Willianas was sulling the Basla.
"Hey, somebrody"s calling fur Big Tum?" yelled the bartender. lwolding the phone away from his lundy,

The sleepy-lidded cyes widenecta and the six-foret-four lundy muved lazily.
 to the end uf the bar, laking the phone.
"Hi. "fom??"
"(roplier?"
"Yeal, 1 fund me a courle of pigeoms. The dull's falulous. with a real strang touch of class. The guy"e a hind loaded with gold. Rolh applese just stumaling through the tlark. nol knowing. Are yan will me?"
"I'm with."
"They brough me an a fancy lale. F'm Derek Fitlding. up from Cal Terh. Cob that Derek beat ?"
"Cut."
"Derek Fiedzing. 'They're meeting us at this crumb-juint yonate at. right nuw." "\$n?"

THEN wr go samewhere. Sump juint where weve never been shade. We make our zalay man fonal there."
"I was fguring an kancking on a couple of guys around the bown tonigha. What's with these pirgens?"
"The doll is worth a caper all by herself. The guy is maybe carrying a hill or two. Weil see if they ger for sticks. If they des irts great. If sul-"
Big Tom smiled. "If nut-"
Frank Williums, the Copher. walked ts the entrance and the domernan waved a culb wer. Williams was fingering the three doblars he hat left.
"If I had a few bucks mare l'it never have latumbt that mamele-lnaver in," the thaugh. his solt monda sarleal in hitatrness. "Just a few lonsy loncks and I'd have figured wit sume play all hy mysmbl Nuw Bie Tom will gencrazy when he suers Hais Erika. Liku a mean, mail bull.."
He gave the driver the O'Farrell ad.
drese and lay hack against the seat. his palms zulbing agains the suftness of the vicurn.
"Waybe this better lie the lasi night in San Francisco." he whispered to himself. "Ton dam many bum checks ntat. They"re looking for me, and 1 pot a feel. ing turighti's guing to be tero rough to comb. Tise datin reugh to ever cuml."

Brlow Nub Hill the Jaguar was noming into a parking space a hundred feet from the blue and green neon sign of the Bada.
"Duesn': look tike much of a place." said Mitchell.
"We"ll take a puick fyeek. and if wr dinn't like it we can go on to the Hungry Eye or some place." Erika pulled the stole uver her shoulders. "I don't know this purt of tuwn at all."
"I don'1 want to know it." said Mitchell, lurning his wheels into the curb.
The cab double-parked in from of the Bada ensrance just as they reached it.
"Nice tu hit at the same time. Watt and l'll go in and get my friends." said the Gupher as he gave the driver a dollar and waved him away.

Arthur and Eriku stmod for a musaral booking as the faded advertisermente [a leeers behind the gummy windinws uf It." Halla. Erika's fine eyebrnws went up.
"Nus so goud. Arthur. nut sir geost. Maybe wed just better mave va."
"Here you are." said the Gupher. owinging opens the dow and smilitug. "Wiow we're all together. Let's hesr sumte real ereat music now."
Behind Arthur was the fangy bulk of Big Tom, the heavy tids of bis eyes pulling up as be saw Eriku. Honey was bro hind him. Gage and Kicks came oul lasm.
"l'm surry, but-" Erika began.


Tlu big. sleepy-cyed man moved smoothly and quickly, one hand on Erika"d arm. "lna Tom-Big Tons, the kids call me musty. We"ll just drap by this place for a comple of minutes so you can get the feel of the music. The most. pirl. the very most."
Arthar was looking at the neat. smotdering beauty of Honey. She stuod alone, somehow, as if there was no one else on the strect. The great eyes were looking away, and there was a dreamer's sunte ил leer lips.
Frika turned to Arthur and saw him looking at the girl.
"Mayben for a couple of minutes," she mid. She conta feel the hard lig fingers on her arm. touching her softly hut with the sense of strength behind the suftness.

SURE, a couple of minutes." said Big Tum. "You know Derck, and iliese are a couple of Stunfurd buys, Duane and Harry."
"Stanford?" Eaid Erika, amtsement almust hidden in the tiny smile.
Bis Tom laughed. "A couple af mushians. l think they got through the third niade. Anyway, Duane and Harry."
Arthur was still looking at the gir!, It wasn"t her dark luauty, but the qualiit il strangeness to her that seemed suddenly fascineting.

This is Honey Hamilton, one of our belter singers," said Big Tom. The girl glasiced at him and for a moment, in the strcel lights, she looked alive, her bow lips parted, her eyes almost luminons."
"T"m Arther Mitchell and this is Erika l.unden."
"Let's move, the beat's wasting," said Big Tum.
"We've got our car."
"We can get seven into ours, Come on."
The big man had a force, a compulsion that made the issue tow naked and too sholent for what it was.

Mitehell didn't want to gor in the other car. He knew better. But now he began tu walk with the others, his hand at Erika's arm, tuward the street and away Irom the neon splatter of the Bata.
He lell a thin edge of fear of the big. steepy-eyed man. A sense that here, nuw. for mo pasticular reason, there could he ad fight. A bad fight.
That alote would have made going into the other car rasll foolishness, but the edge of fear angered him. He wanted to stay with the big man until the fear was ridiculous and gone. Arthur Johnstone Mitchell was not going to show fear of a stranger; a few minutes more and their positions would be estahlished.

And there was the curiosity suddenly strong in him about the dark, heautiful, faraway girl. Not exactly sexual curiosity. Not exactly. But there was something about this girl calted Honey.
"The Buick right acrnss the sareet." said Big Tom. Five men and two girle walked tugether actuss O'Farrell toward the ' 47 sedan. Big Tom turned his head once and looked at the Gopher. There was no sign of expression on his square, high-boned face. "How right, man." he said.

The Gopher thought ance mare that if he'd only had another ten he would never have brought Big Tom into this As they cenwded into the car he liarl a quick picture of a Greyhtound bus rolling south on 101 early tumorrow morning. "Long gone," he said, moving his, lips silentily. "Iong gone tomorrow."
Big Tom stipped helind the wheel with Erika next to him and Mitchell on the uttside. In back. Honey sat on the Gophes's lap. He fmodied her withrut interest and she felt his lands on her without response. There had been too many parties, too many three and four-day racks with only the sweel-taay smell of marijnana as reality.
"Where is this spol?" asked Erika. Her hand in Mitchell's.
"Over toward Nurth Beach. A small spot with big, new music," said Kuppfen.

Far Erika. tull. there were edges now of tear, of curiosity, of an odd excilement. She was a woman, and as a woman she sensed the cruel, brutal force of this man, Tom. If it had only been cruelty, brutality, strength. maybe it would not have been exciting. But she sensed also the amusement, the laughter wihth him.
The wher men, except maybe this charming, maybe sumehow nut-right Derek, were unimportant. She accepted Big Tum's description of them-part-time musicians living hetween the jam and the furnished ruom.

But the girl Honey-Frika wundered about her. Jike this bny, Derek. there was something not quise right about the girl. She had felt it when she first saw her. And yet the girl's smart. simple suit. her fine face and fine eyes, all fitted together to a carefully gronmed beauty.

Erika turned to say something to the girl and turned her head quickly back. She was shocked-but not by the physical obscenity of the situation behind her. The strees lamp had hightighted Honey's face, and that fine face had shown only amused disinterest.
"What have we got ourselves into?" There was sudden. quick panic for Erika. and her hand tightened on Arthur's. She wanted to push open the car door, jump unt, run away.
"This spol notwdy eyer heard of." said Big Tom. one hand twirling the wheel into a tire-screaming curve. "Btzt you"re yoing to like it the best."

WHAT'S the name of the place?" asked Arthur.
"Hatter of fact, in doesn't have much мапие."
Erika bent her head foward Arthur, "As suon as this car stops we get intor a cab and away. Right away." Her words were whispered.

The car swang around another cormer into a narrow street of ancient buildings. Over a cellar stairway, tuward the center of the block, was a single yellow bulb. Two windows in old buildings showed glows uf light; otherwise the street was dark.

A few cars were parked along the curb but there was plenty of space near the yellow bulh over the cellar slairs for
the Buick. Kuppten insped the tipen ar he swang in.
"Away we go," he said, and his voice had a corious tired. easy quality. Erika could mot see his face.

Arthur upensed the car door and they got ont. Erika looked once at Honey-the abrupt searching look a woman will give another-and lonked away. She moved to Arthur's side.
"Let's get our cab. Atrhur," slic said. speaking loud and clear.
He lumked at the old. dark empty street and shook his head. "I'll call one from inside."

As they walked dinwre the rounded, hollowed stone steps they combld smell the place. 'There was a clatler of music. and the tired smell of old saloons in the moraing. Erika lurued to look back. The boy she know as Derek Fielding was at their side. still smiling. Behind them were lloney and one of the wher ment. At the kup uf the stairs was Big Tom, and he was looking at her.
Something much like what Arthur had felt came to her now. The panic was gone. These might be the wrong kind al reuple. but there was nothing to be afraid of in them. Nothing for Frika Lomdon and Arthur Jrhmantone Mitchell to fear. Tags of textbook paragraph in Suciology 201 and Psycholugy 218 came to her mind:
"In modern urban socicty there are the 'wild dogs,' umabte or unwilling to fit into a mormal pattern of living, and unable and unwilling to leave other people alone. . ."

## CHAPTER THREE

THE place that didn't have much name was almost dark. Frika could see a few tables and some hooths. Three couples were dancing in a space no more than eight feet square. Mnst of the light came from the corner where a trio was making frantic, chattering music.
A ballum of a man walked toward them, a man with a short, grossly rounded, balloon body, and a ballonn head sitting on his sthorlders. He had no neck.
"How many?"
"Seven of us-and double shots of laurbon over ice all around."
The balloon man's head holbied toward Big Tom. "Okay. Seven duables over ice."

Erika started to say something. but stopped as Big Tom toweyed over her, laking her in his arms for a dance. She would have broken away except that his hands were gentle on her, and she felt the rhythmic grace of the giant. In seconds she realized that he could dance superbly. She loved to dance.
There was no fear nor sense uf sotatthing nut right here. Only the frantic chatter of the trio, the great, gentle hands, the phythm and the beat. Somewhere behind her the others were at a table, and for the moment she wat dancing.

Big Tom, strong. gentle, dancing. looked down at her. A big. square face. with the bones high, a carve of cruelty and a curve of amusement in his mouth.


ARIDE you will always rememberyour first Cainulous ride with a new Whispuing Pousp Evintude! So quiet... so blissfully quiet you hear the swish of the low wave above the motor's hum!

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## zuinruce <br> Cuic) Outbond Mbout

The masic ented like an animal dyiag suddenly and othey stumd there in the dimness with the peophe aromed herinnimg to talk a little to chat throuph the silence and the loneliness of the place whes there was no music. She cuald see that there were neogle chare. grate a lew. Lut she culd serse the lomelinest of this place whthat much name.

Ste turned away from Big Tum, But before his hands left her he let her know the strength and cruelty, ure pressure of the hard. strong fingers. Again they luoked at each other and there was a knowing between them. a knowing she rejected with late.

They walked to the table and she saw that Arthur was talking to Honey. The other three men were Jarking at her. Before they reached the table the music began agais and Big Tons spur her in him.

This time he was not gentle. She felt the muscle ridges of his body against her softer body. and felt the animal strength of his hands.

If the music hada't a basic frenay to it, if the hatin't had the futir drinks at une Cirque, if Bie Tom Kuppenthadn's .ue laughter within him in arddition th he strength aund the cruelty, if maybe trohur wasn't talking to the strange. terrible girl. . . .

But these thinge were all Irue, and she wanted tes hurt the big man whes helth her. stip wanted th laugh al him, and she wanted to dance with him.

Make lowe in a reddack romm with the frantie: music beyond the dear. make lowe in a fures with animal eyes watching from the darkness. make love on a wiady hill with the storm chuuls pilitig up leyund the sum.

Crazy. She caught herself and she was
rementrering girl talk tuw. The weondering lalk almut how much there was in the simple mab-wnena animal atreaction. Fur a mument she realized the subtle -kill this lige man was using un hes lowly, There was mothing catual or accidemal ahmet the pressures and the comacts: lie know wumen. His hig man, and he knpw the bodies of wimen.
The masic ended in stark. unwantod silence again and slie felt tired. defeated. This time they went to the talile and sat down. As she walked ower she saw the three paits of eyes of the men at the table looking at her. eyes moving slowly as she meved. unblinking. staring.
"Arthear," she said.
"Yes, Erika?" He turned from the luvely. lust girl.
"PJease call a calh. We have to teave." she said urgently.
There was a little stack of bills and silver in front of hime and tris domble bourben glass was empty.
Нолеу looked at her without interest. The big eyes of the girl had warmoth and light and yet they were strange.
"I asked Honey what she did. Erika, and she told me that she lived a very hampy very complete life." said Arthar.
"We !ive fune." said Honey. "Nom lang. buo high and his and fine."
"How do you like this music. Exika?" anked the yonng rana in the vicuna tupcout. Htrewn back from his shoulters now.
" 1 h '* a very urdinary Iriw." said Frika evenly. "They pick their numbers, they play a alfong beat. and lotach. It's effective. hut it"s not groarl mosie.:"
The Gupher lonked at her witl the smile lireaking away slowly from his face.
"Cateh the chick." sairl Guse. "She

"Always huml ly helivopler . . . great spart!"
don't eveal ste the music atnd she talks in down."
"From you I hear the lorg silence." raid Tigy Tom, "Do I hear it?"

Gape nordded puickly. hiss lipes tight.
"We g" nuw," sand Jig Tom. "We gu muw becanse I don'1 want this,"

Again Erika felt shack. 'The three mon and the girl were standing.
"They're completedy afraid uf this brute." she thought, and trying not to. she looked at him.
"Will you drive us back to our ear or Shail I call a cab?" asked Mitchell.
"He duesn"t know what we"re intu: fite doesn't even guess." she said. the lew words andihle.

TTHE Gupher hreard her and he waw grinuing now. "l knew yur were comb. Even up al the Cirque l said this is a cool chick." said the Gupher.
" 1 don't want wou arsurd." Big "Tonis: voice was lazy, almost a whisper.
"I'm tapped. I've got to ease out and I need the paper tu get to I...A." Frank Worth Williems essertisl quality of desperation, of alaylong. nightung despuration was staldenly lare amb larrible on kis fare.
"The streets aren"t empty. Aen wailang firr buses, flranks walking aloug. tmut lazy:"

The Gupher": fuce was strained as if he had rus tes, far. "['d have tos lue unt there cimme a stick and mayber 1 can make it. Wirlt a stick to smoke, mayber I cuttid make it."

Arthur Johnstume Mitchell underistmord the cunversation. The man whes called himself Derek Fielding had been told 10 gn away. He harl asked for money to go to Los Angeles. The giant had tolla him to get it by folding up somerne, and the boy had said he didn't have the courage for a rolblery unless he had marijuana first. Arthur Mitchell anderaturd his: and nuw be understoud quite well the people he and Erika were with.
He pushed hack his chair and walkerl to the balison-shaped man.
"Where's your phone?"
"Phore? Who has phones?" said tho ballown liead.

Mitehell swong afonnd. Erika was standing and he pushed by Honey to her.
"We're leaving. Erika."
They walked uut of the noise and the sweet-siur smell. uj the stairs and oul on the black. ancient street.
"I want you nice peoplde to conse over to our prad and listen to some records." Big Tom was right behind them.

Neither Arthut nor Erika tarned. They kepl walking until Mitehell felt kuppfen's hande in his arm. He stopped and faced Big Tum.
"We're walking."
"I want you 10 look weer mar pad. It'a gaod place in a quiet neighborthowd."
Erika sensed the other two men behintel leer and turned.to them. She knew that is cle screamed they would be on her befure her munth was fully open.

This was the naked moment.
She knew what could happer. Mitchell could be on the sidewalk in eeconds, with

Big 'lom stumping un his lace, kicking him, tearing his body. She conld be putlled into the car and left hours later on sume: emply rati.

This was the naked moment.
San Francisco newapapers carsied such sturies every day. Men lieatens up and robloed by prowing ganes, yir!s pulled intn cars. On this dark. emply street lhere was no chance for help. They couldnit everu try for the chance of running back to the cellar place.

She heard the suft laugh. Big Tonm was laughing.

Arthur had courage. He was a good man; she cuald see that. He was carrying himself ready to move, arms raised a little, a quick glance at Big Tum. at the two men hehind her. Arthur was ready to try a fight and she harl to stop him before lre did. Big Ton wouldnit fight. slie knew. He would stnaslı. tear, mains. cripple.
"Lel's go uver and listen to the records. Arthur." she said. Her woice was cool and easy. Any place weuld be fetter than this empty, ancient street, Any momeat in the future would lie better thall this naked moment only a breath away from the smusling fists, the terrible hands on ther.
Mitchell's hands ruse a little, a reflex from his readiness, and then he turned to louk at her. She couldn't see bis face well but she could guess at the surpise it must be showing.
"You want lo go?" There was more than atrpuise in his voice; there was the raser of anger.
"Sure. why nol? lt's early. probably only a little after one."
"] want to get back to my car."
The wher thrce men and Honey were quiet. waiting.
"Come un, Arthur let's go." She atepped toward Rig Tom. Mitcletll's hands dropped to hiss sides.
"Okay. chick. A ball. A liall for mas," Big Tom was a shadow giant. tall. slowmoving. As sle bent to slide into the front seat of the ofd huick she felt his hands struke luer lack.
ln the car. with ligig Tum behind the wheel and Arthar on the wher side. Frika Lundoa felt the sudten tightening of her londy-knees and thighs pressed tagether, hands balled into fists, her breasts now seeming too large-and knew that this was fear. real fear. pratic. But no one spoke. In back were Honey. Duane, Harry. The only sound was the kick of the starter and the burs of the tires as Kupplen gunned the car.

## CHAPTER FOUR

AT 'TtIE cellar place Frank Worth Wibliams sal at the table. holding his eupty Gass. hearing the high, slurrimg beat of the hand as if it were echoes in an enurnuas rum.
"I set them up for him. A kid with maybe a hundred or two. and a doll chick like you never see to tutich. I bring them to him." he thought. and his mouth was twisting with hate and self-pity. "I liring them to him and he kicks me off. Why Kicks and Gage and not me?"

He langed the glass on the table and the balloon-hatad man looked at hims. readying tris sofe, powerful body for truuble. The hatlum man knew buys like Frank Wuril Willams and he knew the quick eure fos truable they might start the blackjuck, smomeh. hard and faut. The ballown man didn't believe there wan any uther practical cure. But he waited, his breath sounding like fittle snores.
"I have a piece of any money he gets from that kid. Level. I shoult get lialf. A double saw at the worst. and a dionble saw would get mee to L.A." Williams was talking to himself now. He waved to the fat man. pointed to lis empty glass. The ballemп man slowk his hearl. Frank Worth Williams stuod up.
"A compte lansy bueks and the whole damn tnw heating up for me so that any secund a cull might knock me off. He owes it to me and I'll get it from him if J have to cut hims, I can eut a big man down. Cut him down, and cotd, man,"

BUT Ftank Wurth Willians knew that it wasn't fear uf the pulice. nur a right to a twenty-dollar cut of the numey in Mithell's wallet that ate through thim like acid. It was hat the fire wombas, the lovely, untouchable woman. Erika 1 and dum-and he had turnsented himself through his terrible nights with waking direanis oil women like ner-would be taken tonight by Big Tunt. He knew that; it was al sel thing frum the second the I wo spuare kids had gone intu Kulpo fen's ear. Big Tom might take oloe firl with the red-ighld hair in quack violenee. as he had dune wher girls, smashing her lips anainst her braken tecth with the heel of his land so that ste couhnai screan threnght the blowd in her mouth. He might take her losurs from now with the weed mmoke thick in her head as she lauglaed. Bul he waid take her: She Copher knew that.

And all be wanted was tu be there afterwards, eyen for a minute or two That was all he wanted.

Twenty stullars and whatever was left of the tall. fine girl. That wus all he wanted, and hed set them up.

Big 'lom condd have been decent, Frank Worth Williams thought in the scatlet rusth uf hate. But not that bullbrute with his cruelty and his laugh.

He enuld be cut down. Williams' wel hand fondled the flick knife in his trouser pucket. There were pictures in his mind: a thin boy, Frankie Williams. thirteen, slasking Georgie the Greek's face with a knife in the yard of Juvenile Hall, watching the bloud come ont like straight. red lines across the screaming. frightened face; Gupher Wilkiams. seventeen, taking the money frum a sobbing boy on Fillmore and then digging his knife into the boy's upraised arma he tried to shield lis face from the puint.

Go to the aparıntent. Talk casy and friendly until Big Tum Kupplen wasn't looking and the er put the blade upander his ribs and watelh him fall with a funny look and no laughter on his face

Frank Worth Williams walked up the steps and into the other darkness out-
sine, fitgers tight around the smooth plastic of the knife handle, and the taste of hale bifter-hot in his mouth. . .

In the back seat uf the Briek the girl they called Homey saw the golden ellage of Erika's hair as the car passed under a street lamp.
"Blunde girl," thunght Honey. "I used to know blonde girls in school. That was a long time ago befure 1 knew anything. I didn't know anything about corsl music, or the sluff, or men. Just buys, and they didn't know anything, either. E.ong time sgo. . . .
"lo"ll be a ball again tonight. We better stop and get sonse stuft, maybe. With everybudy pulling on sticks we wun't have eanagl for more than a couple days, maybe. Doesn't matter. Sumebody'll find some, or sumebody'll come by. Someludy'll hit the in-wood and shout wut "What's doin", man?" and sonebody'll swing the in-wood wide and say 'Holl in, roller, 'cause we're gettin' thin, man.'
" 3 ing Ton"It beat the girl apple up and if I'm the right high maybe l'Il watch. Maybe the boy apple will want to prad atat and 1 cat roll ontu his wateh.
"Got to get me a little heap of loot, cause I want to get me a pade all my nown. I keep balling with Big Tom and these boys, I might get me into some trouble. Best I get me a little pad of my own.
"High up on a hill with everything shiny and bright. Maybe three roons with my own the hi-fi and a mile-high stack of the best, and I'll play 'em and listen snug in my uwa little pad. . . ."

THE girl called Honey rolled her thonghts acruss the soft fog of her mind, slowly. Nothing much mattered tu Hioney any mure. She still dressed anul gromed herself carefully, maybe because some suts-yel-lost frart of her stiil tried to readh out to reality, or tried tur reach back a year to the time when she was the prettiest juator in the high sehnol heross the Bay.
Erika wanted to lean over zu Arthur and tell him that she was guing to scream the first time they prassed a pulice car. Scream and switch off the ignition. She knew that Kuppfen would hit her, but calmly she had decided that the risk of a broken nuse was worti it, if they could escape.
She wanted to tell Arthur but she was afruid to whisper. Kuppfen was wheeling the olld car alung the side streets, avoiding the main one-way motes. They passed ather cars, and sometimes taxies, but the risk uf a scream would be tur great with anything less than a police car and its two way radio.

Big Tum's great hands held the wheed loosely and he was holding to a steady thirty-five. Erika knew that he would be a skillful. reckless. high-speed driver, and that if she couldn't stop the car when she had found ber chance to scream ho would try sume erazy nisety-mile-an-hour getaway that might end in shattered metal and shattered bodies against a building or another car.
She thought of these things almost as
if she was planning a morninge's shopping, or scheduling her classes at Berkeley. This is the way it is, and these are the things to lee considered. Hut her knees and thighs were still pressed tightly. compulsively. together and her hands were tight balls

At twentythree, and as a man. the thoughts in Arthur Mitchell's mind were different. He was no longer afraid. and he was angry. Angry with Erike, angry and jealous. For a moment back there on the sidewalk he had expected arouble with the big ape and his two friends. It might have been a nasty little fight. Then Erika said she wanted to go to the bip ape's place and listen tor records. Afler dancing with him in that rat lume.

YOUNG Mitchell was seething with jealousy. A big. good-looking sleepyeyed ape comes along and danees with the gir] and she gets hot to go. The hell with her.

Good to find these things out. And this evening he'd been thinking of not waiting another year for marriage. So they would have got married, mayhe, and the first big ape with eyes like Robert Mitclums and she'd gor all primitive female. The hell with her.
A damn marijuana auddict at that. And that suave little character they'd met was a damn phoney. A real lousy crowd to be mixed up with. But Erika has to want to go to the big ape"s apartment and Jisten to records.
Probably that singer, Honey, smoked the stuff. Maybe be ought to make a play for her to set Erika straigh. The girl had a strange fascination, at that. She couldn't have any marijuana habit; she lonked too clean, too trim. too heautiful. Not like a college girl-maybe a very smooth, high-salaried secretary.
What's she doing in this raty crowd?
Arthur Johnstone Mitchell had fhought things out to that point when Big Tom suw the solitary man.
"Get the setup. Kicks. You and me will make it. Gage lay the edge on our apple. He might as well learn the facts." said Big Tum in his easy. chsual voice. The car braked to a stop almost in from of the solitary man standing by the busstop sign. and Kuppferr pulled the hand brake as he swung open the front door of his car.
Mitchell turned and saw the lonely stranger leok up in quick, aware fright
as the car stupped. and then Mitchell had a problem of his own. He felt the edge of the knife like a sadden line of cold against the side of his thruat. under his right ear.
"I'm hurtin" to cut yon, yus hausy crumb, achin' in my bones to cal your damn throat like a pig." said the frigh. strained vice behind his head. "Move. move. you bastard, so I can cus you. Just move."
Mitchell heard Erika scream, like sumething being torn. a pulsating seream, but he did not move his head. He kept it as it had been when Gage put the knife to his throat. His head was qurned to the window and so he saw what hap pened to the solitary man.
The man had lumed and starled to run when Big Tom grabbed him, spun him, and hit him in the stumach. The other boy held the man as Big Tom went through his coat and trousers puckets and pulled off a wrist watch. Then, as the boy held the man, Big Tum slugged him in the face until the man's head fell back.
They let fim drop to the sidewalk and then they huth kicked him several times before running back to the car and jumping inside.
Erika was still screaming. Big Tom slammed the thoor, released the hand brake, and stepped down on the gas pedal. The old Buick roared unt loward the street.
Big Ton's voice had an exultant nute. but it was still soft as he sjuke to Erika. "Make a silence, chick. Make a silence."
Erika's scream ended in a shaking sobt.
The knile edge was still against his throat and he could still see in violent memory the crumpled man, the swinging feet. the terrible heels stamping down Arthar Mitchell felt sick as if someone had kicked him int the stomach.
You read about these things, he thuught. like you read about terrible car accidents and planes crastiog. Yius read about them but they can't be real. But this is real.
Now he reaized what Erika had realized first, when she had turned around in the car and had seen Honey-Honcy with the amused indifference on her lovely, perfect, heart-shaped face.
Mad dogs.
"Man hardly made ne noise at all," said Kicks from the back sear. "Wike an old-time silent movie. Man just getting hit and then goin' down so polite. Man
prohably mever goin to lowk the same again. All new kind of face."
"Sort of beat-up kind of face." said Bip Tonn. "I got hins pretty gowl. Coing to have to wash my shoes off."
"Can"t get your kicks without losing a few tricks." sairl Harold Juhnsun in a singsong voice. "Was the apple hulding much?"
"Cumple bucks." Kuppien hat cat across town at sixty. runntige twir slup lights. Now he slowed baek to thirty-five The car was headed sunth, and they were passing through an area of new homes.
"Fimure we"Il go south a bit and drop, off this apple," said Tom.
Gage had settled back but the knite was ready. and Arthur Mitchell lurned his head siowly, knowing that the max behind him was watching. Mitchell was trying to think. Three men. orte of theat a giant. and one of them with an eager knife. Lonely avenues, well after one o'clock in the morning. Three men. vicious, cruel, deadty. Mail dogs.

The wirl. Honey. Stwe had said muthing. Neither the knife nor the brutal rolibery had caused any reaction.
And his girl, Erika. The sobs had stupped and now he felt her hand reach ing for his. There was a quick, hard pressure. "We"re together, we"ll make out, we'll have to fight"-than's what the pressure of hands seemed to mean.

## CHAPTER FIVE

ABTHUR MITCHELL spent a few secunds in hitter self-anger. Getting in the strangers car on O'Farrell Street was stupid; he had known it was stupid! when he agreed. But he had wanted to show that be wasn't afraid of Big Tonn.

He was afraid of him now.
In whe back seat Gage. Duane Free poster, ran his thumb over the edge of his knife. This was mure like it. He thought. This had the real excitement to it. Maybe he would knile this hig, grodlooking bry tonight. He'd used his knife to frighten girls; he liked to see their eyes widen and their mouths open as they felt his krife bite a little inlo the soft skin of their throats. A couple of them had told him afterwards that it had been a thrill, being frightened !ike that. He hadn't really cut any of them, bet it was certainly more fun than the usual routine of getting them drunk or getting them to try a stick of marijuana.


The big thing would be tur it it at man, really do it. Feel the knife slide in. and know that the boy was gning 10 die. [t sorl of frightened him in think about it. If he did it he might have to leave town. or hide ont.
Maybe he didn't have the stuf tu really do it. Maybe he'd chsicken ont when it was right there, the man there. the knife there, and his hand unt the knife. Maybe he'd chicken. Duane Freepuster theught. as his mind seemed like ile paper streamers in front of an elec. ric fan. Well, at least he'd have a chance to find out.
There was a quick picture. He saw this big apple, Mitcheli, gring down under the big fists of Kupplen. heing kicked the way they always did when they had somelody dowr. and then he: Gage, was oyer the man, cutting him. Maybe feed do it like thal.

Why? Becatase he wanted to the it. There was a hate in him. People didal know about that hate, not even his nother. A hate like a tiger that lived withn him. Feed that tiger.
Haruld Johnson wished that ilhey'd finish up so that he could get to a pianos. He could riff oul now; he always had the live things in his fingers when he was going great like tunight. He'd just made a little score and making a score always set him up high. Get flis thing of these two things guing und done, and then maybe to that flat up in North Bcach where the piam was waiting fur the live thing isn his fingers,
Man, yruid live thin for weeks. maybe manths. Some lea-box of a rome on Turk and with those hunger aches like celd focks in the belly. You'd get afraid. ind nervous. Miserable, man, and down. Nothing great, bul kow and low. Nothing.
Then you'd run into some fine people, and you could lane around their fact and smoke right we, with the sweet smoke making you lig. The fine people would work with you. and you'd ga aul with them and find some guy alane and - youdd chop him down and take his gold and give him the heavy bunt.
Honey'd be around and nuthody had a tag on her any marre, least of all Honey; so if you wanted to zoo around you could zoo.
Fine. man, and ny. Real great. and up.
Erika Londula hail needed the hand pressure. She had sereamed into the night and mothing happeneli. Maytue
lack there, miles hack there where the: man lay un lle sidewalk, someme had opened a window and had lowked into the dark street te, see whet hat screameal.
But they were miles away now. going sumth along a guiet avenue belween the ghenst-gray rows of houses.

There were lunely country roads nut ton far away now. Back roads where the ear could stojo ansl . . . .

SHE couldn"t think like that. "Jhere muse he something they could du now. This was San Francisco. and preople like Asthur Mitchel! and Erika Lindon weren't abducted by thiree young thugs merciless. eruelty-crazed youngsters. There weren'l young naen whu would heat. rapee, and even murder just fur fun.

There were laws and police, and prisurs. and sociulugists.
Not in his Huick muving loward the lonely ruads.
She had been alune in cars with overexcited young men. The calm, remote altitude usually worked.
"Tom, Big Tum-" she began.
"Yuire taking. chick. F'm listening."
"E thought we were going to your place to hear records."
"I furgen I dun't have any plane, chick. We're going to the everything kind of more direct."
"We don't knuw you, Big Tom. We couldn't even remenher what you lioked tike. No mater whon asked us, we wouldu't be able tu remember."
"Coorl, chick. cool."
"Why not let ws out somewhera?"
Kuppten laughed. "We"re guing po have a lisall, chick. A real tall ball with fun for all.,"
He felt tonight as lie always did when he was moving. For him there were twil kinds of living- moving and momeming. Sometmes. maybe mure ilan lialf of the time, he thought, lie was nonnowing. Like a resting animal, sleepy. slow, not much interested.
And then there were the nuving times, like now. and lie fell like a lrack or maylse a bus ralling down a steep grade; swinging aromad the curves. always going faster, knocking wer other things. smashing thrmgh fences. kiljing people on the road. reiling faster and faster. Maybe more than a truck or a bus, nore like a tank. ur sermething armered.
His uncle had been in the armaned division that wag called "Fetl on

Wheels." Something tike that. that's what he was when he moved. Hell on wheels. He liked that.
Kuppfen knew what he wanted when he was like he was row, in novertent. At the end af the long downhill rall the big truck or bus or tank. ar whatever would stop and he would get ont. Get sut wearing a two-hundred dollar suit and one of those thonsand dollar wrist watches. Hand-cobbled foots from Landun. Everything tailored for Tom Kuppfen, the wheel. The great wheel.

Lots of money, and people taking orders, smiling and bowing. and other bigg wheels waving hisya at hifro in the clubs and the fancy places. A new girl every night, and the girl all excited and happy hecause she was guing to give her first fo the great Tom Kuppfen.

He spun the steering whee! in ruick anger, and the rulber of the tires burned on the pavemens as the car barched around a comer.
Jerking stuff. Dreaming like he did when he was ntmmoving. He knew what the trouble was. The trouble is the world wouldn't give him lits chance to kneck on the in-wood, the duor, the big duor. He was big, strong smart, tough, wit jilenty of stuff on any ball, and what did the world want him to be? A flunky, a clerk, a salesman knocking his brains out.

He nught to be driving his nwn Jaguar now, a sweet, long XK-120. working on some hig joh in television or advertising. Maybe the manager of sume rich businesk. If they gave him six monhs In prove himself, that's all lie asked. Give him the joh, and say, "Big Tum. shuw us if you're a real wheel!" He'd show them.

But the dours, the in-woods in cat jive, were always locked tiglit. They needed somehody in the shipping department, or peddling brushes or newspaper subseriptions.

Strong hack, weak mind.
So he got his the hard way and every time he knocked a man down and rolshed himt and stamped on his face he was getling even. He was a robber barma. like in the old days that Morse, the lise tory preacher, used to talk about whes he was in high school.
He figured on not taking any chances with this Mitchell. It was ukay naw will Cage and his knife in the back seat and Mitchell knowing lis throal had had it the moment he moved wrong. But ul


ARGOSY MAGAZINE,

ahead. outside the car, when he gave it to this Mitchell he better take no chances.

This Mitchell was kind of big. and he looked rangy, maybe fast, tou. A pretty fair end on a small college team,

Better not give him a clance. If this Mitchell had a chance to work his arms at all he might mark the face up. break a touth.

And the girl. This coot queen. She was guvernment-stamped Fxira Choice. man. He'd hurt her. Sometimes they like that. Sometimes they don'L. No way of telling until afterwards. But wheiher the doll liked it or not, he liked it.

Moving. A big truck, or a bus, ur a tank. rolling faster and faster duwnhill, knocking over fences and louses, rolling.

The car climbed a long. easy curve around the blackness of a hill. They were outside of town. Erika had to try again. She'd leen thinking of the best way through the terrible minutes.
"Big Tom-" She guessed that he fiked to be called that.
He didn'l answer. The chick was gning lo try and sweet-talk him now. Chicks lad Irien sweet talk befure. Sometimes it made hima angry and he rave it to them hard and fast to the face, and they didn't sweet talk any more. Sometimes it made him laugh. He wasn't sure yet which way it was going to be now. He could backhand her with his right but the didn't want to groil her face. Nut at this timte in the fun.
"Big Tum, [్"ll make a deal."
"Yuu can make a deal?"
"This is an old car. Not your style of car at all."

HE DIDN'T like that much. The anger was buginning to spark in him. So if the smashed her face, so what? He could remember what she looked like before Talking drwn this charker as if lie didn't know it was a clunker. Smart, big-mouth chick.
"Ynur style of car is a Jaguar. something like that."

Maybe not so big-mouth, this chick. Kind of cool. a doll with understanding.
"How right," he said.
"Do you want to be driving your own Jag tonight. Big Tom? An XK, you know? Two-seater, ppen?"
"Yeah, I know about XK.s. You think I didn't know?" The sparking anger again.
"You can have it,"
"Talk some more, and I believe you, coll, but thoasands wouldn't."
"It's Arthur's car. Then turn around and go back and we'll make the deal. No trouble, and you get the keys."

This was funny. "You think ol' Tun's reat stupith, chick? What a stupid deal!"

The headlights cut into hackness. They were in open country on a lonely toad. Erika knew that any second now the car would stop.
"How about a bill of sale, Big Tom. Arthur, would you give litm a bill of sale?"

Mitchell had been working on the idea of swinging open the front car door and rolling out. They'd stop and maybe he
could try them one at a time. But he knew it was ma guad. It wouldn't work. He felt sick with anger and fear. He listenerd to what: Erika said. Maybe there was a chance here.
"That's nearly four thowsand dotlarg' worth uf car." he said. He wanted to suma businesslike, and there was unfunny lumor in that. He wanted to bargain. and there was nos bargain.
"You got the pink slip?" anked Big Tum.
"I've got it un me," said Mitchell.
Kuppten could see the car in his mind. Long, low. fast, all sumerts car. Shake this tired town and roll Lo Vegas, or maybe Phonix. Find some wealthy whran. Hang around the swimming pool with the car where it cond be seem. and make the bix chest the big artus. Wealthy, beautifed dolis.
"Yeah," he said. "Yeah, I'll gn this Jag route. I buy it from you for a couple thousand and you sign aver the pink slị̣."
"A cmaple of thasam?" asked Mitchell. His mind wann't working well.
"In the mind. in the mind unly." said Big Tom. "Yois give mee a receipt for that much fout. and the jink all signed. No beef. Nobody hurt. You and the chick here buck at your puds all well and swell. I have nee a mice lenglh of irum. I make the deal. Okay"*
"All righu." sai,l Mitchell. The pirk slip would be the last move, if it had io be made. He didn't want to think of his car in this big apre's hands even for the time it turk to call the police. But on the way back, there would be pulice cars, lights, chances.
The Thuick was sluwing down. Kuppfen pulled it across the road into a wide shoulder, backed it, and headed back to San Francisco.
"You know it's for lauglis." he said softly. "Yuu're thinking. and I'm thinking, and we're both figturing on a cross, and who do you suppuse is going to win?"

Mitchell turned, but in the dim light of the dash he conld see only a shadow lace.
"Yeah, buster, you're fiyuring on yetting me back in town and getting away. Sure, you are, buster," said Bia Tom. "But lel's figure an going along or nur little deal. Yuu sign uver the car, and nothing happens. You blast to the cops -then something happens. They roust me and someloody rousts you."

KCPPFFN was trying to think ahead of the man and the girl. To have a Jaguar was worth a lot of risk. a lot of heat. Cross the state line intu Nevada tonighe and it was made. The pink slip and the reccipt were as good as gold. After he lad them he'd play it as it lay.
Erika was sitting slumped and loose. The terrible blackness was behind them. the lights of San Francisco were ahead. She felt lightleaded. as if the whote thing were over.
"Where is this new car of minne?" asked Kuppfen.
"Downtownt. I'll show you." Mitchell
was luilding up his anger carefuty, like a fighter guing inte training. Sometime before tonight was over ho would make this hig apee wish he liad never met Ar. hhur Jolinstone Mitchell.

## C. HAPTERSIX

THE headtights picked out the small. snug homes at the edge of the city. Kuppfen kept the gas pedal hallway down. driving as carefully as a lawyer.

Play it as it lay, Kuppen was thinking. But there was a big juke bed juat figured wut. Real terrific. Atul what a deal it would make! He laughed big and hearty.
"Sin what's funny?" Asked Kicks
"Briving," sadd Honey, in her erispl. delicate voice. "Driving all over the town and nothing happening. No music, no fine times. Driving with a couple at apples. Stinking dull. Awiully stinking dull."
"Don't [arget who-ill owns the heap when ysu get it," said Gage. His hands were irembling. Thinking all the way nut intu that lilackness on the entuty ruad about his knife. Wurdering if he'd muke out when the moment was there in front of hitr. Wundering if he'd chicken. Gelling hut and tight as if he was choking. Feeling the ligin, cool sweat un his hathly and fuce. Working us to it. and then the ear lums around and it won't happen like that. He lated Big Tom Kuppfen.
"Yeah. yealı, sure. Everybudy cuts in," said Big Tom. The excitement at his big joke made it hart for him to keep from jushing the gas pedal right through the Hoor and barreling through town like a rocket. What a deal he'd figured! The rest of his life was gring to be high ankl fine. higher and finer than the weed ever sent you. "Way up there.
Muney. Money. Muney. Fine cars and heautiful chicks. London and Paris. Big Tons laughed.
"It"s a straight deal, isnt't it, Big Tom?" asked Erika. The luughter was herrible,
"Straight and great." He laughed again.

Kick: puiled Honey over to trim. Nuthing much mattered. Anether erazy night. and he had a thing for erazy nights. Crazy, man, стаду.

Eriku rearched for Arthur's hand again. They were in town, there were cars. occasisnally poople un the sidewalks. Bars getting reaty to cluse, hut the lights still on. There must be something to du now, some way of breaking free intu the normal, ordered wurld again.

Onee she saw the lights of a pulice car a block away but Kupafen had seen them. tuo. He swung arpund a corner.
"Don"t go wild. chick," he sabl almast in a whisper, and the hack of his right loanil was as fast as a whip, as hig as a club. It stopped just before her face. and Arthur Mitchell was swinging uround.

Gage had the knife point under his ear before Mitchell could raise his arms.
"Dun" go wild. doll." Kupufen whispered. "We got lou much to lose to take a fast fall to the cops. You have been playing cool. Keep it cool. Right now I
don't want a had thing to happen to either one of yos. Not one bad thing."
The knife puint hart, but Mitchell held his heal steady. Soon now, soont, and these rats would be squealing in fright. His hand tightened on Erika's.
"Where yau headed?" asked Gaye, his hand wet and shaking. lout the knife steady. "You passing up O'Farrell?"
"We're going to the frat. and close the deal there:"
"Yotr'yu Hipped, man. We don't want these apples to know where the pad is."
Big Tum didn't answer. He was in love with himsehf right now. Like he said, like he said, he thunght. Big Tom Kuppr fen always said he was smart, that he cund figure the play. He'd figured this one. It was goime to be real hard waiting for tomorrow's sum. When the chick had talked up the Jaguar deal his mind must have slarted in top gear. Cuing to be hard to wait for morning.
The car rattled across the cahle siots and punded as is climbed the hill. Kuppien cut it into the curb in front of an old building.
"['l] get out and this girl will slide out on my side. You keep the shiv on this character, Gage, until Kicks and Honey are out. Then he gets out after your door has been opened, you keep the shiv close to his kidney, and we all po up to the rad happy. Then we du business."

It was hard for him to keep the excitement out of his woice. He had tu say something about the pian he'd worked out. It was bursting inside him. "Man, l've got a dream scheme."
"I don"t want schemes, I just want dreams," said Honey, her voice fax. It was an old phrase around the places that had been her life for the past year.

Big Tons put a hand un Erika's arm, upened the duor, andi hail pulled her out of the car on the driver's side. He was surprised to find himself shaking a litte.

Erika stoud beside the giamt in the yellow-streaked darkness. The rear dur opened and Harry and Heney slid out.
"Muge this doll," saici Kuppien, and Erika struggled as Harry stepped lehind her and locked his left arm under her chin, pulling her head back. Kuppien walked in front uf the car and opened the door beside Arthatr Mitehell.
"Get out, dreambeat." he said. As Mitchell climbed out and straightened up, Kuppfen hit him just below the Dreastbone with a blaw dat came almost straight down. As Mitchell doubled over Kuppfen hit him behind the ear. catching the buy before his face smashed into the pavement.
"Put the shiv ku the doll, Gage. Walk her to the pad. I'll drag this meat in."

Honey walked down three steps to a basement entrance in the old building. took a key from her purse, and opened the door.

Erika felt the knife point in her side, urging her toward the dark doorway. She walked stiffy. For the first time tonight she prayed, silently. Kuppien half carried, half drageged the unconscions Arthur down the stairs. When the six people were all inside Honey chosed the door and flipped on the light switrol.


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Erika had one momem before her eyes adjusted to the light, then a momern white she looked without understanding. and then a moment of horrihte shame. The walls of the tiny front room of the hasement apartment were cuvered with nlbacene photograplas, many of them enlarged into monstrosities. She envered her face wíls her hands.
"Art work. chick. Just think of it as art work," suid Big Tum, rolliny Arthur fare down un a sagging. stained couch.

He walked over to Erika, pulted her lounds frum her far:e. "If yout want to scream some more. chick. Ill tell you Luw it whits. This is a nephborhood wiere just une scream from a girl isn" ligg news. And onv scream is all you'd "ver get sut."
"What"s the mather with yon people? Are you all insame? Aren't you human? ou're like devils. mad. insane. dirty xicvils!" Erika was close to hysteria.
The wher four were looking at her. Harry-Kicks-was amused, his sallow fact twisted a litule. Duane-Gage-Was watching lier with a cat's intentness in a bird. his pale tomgue caressing his pale lips. his eyes darting away when she bamed at him, coming baek to her al thlice.
Hemey's eyes were on Erika, but her tuvely face had no expression. "This is the pad," she said. "We have lots of nan here. but it isn mach to look at. lou get with it, and it"ll be heaven. Hodven."

Arthur was trying to push himmelf up from the couch. Big Tom stepped over, *wung a shert, heavy riglt to the small of the boy's back. and a left with the hecl of his hand to Mitchell's ear. Then as the young man fopped like a broken doll, face down intu the masty couch, kippfen walked back to Erika.

WE'LL kid arrond for a little lita, chick. Then we'll get the apple to sign over those papers on that fine line of metal. That's our deal, isn't it, dull?"
"You arreed mot to liurt us. You were tring to lel us "An." Erika fough buck the liysteria and wom. Slue needed every bit of strength and sense that she had.
"I havent hurt yuu. chick. I'm a big man, 1 can hurt lots, hut I haven"t hurt you. 1 just slapped the boy arand like in play. I didn't break anything."
"Let him sign the papers on the car, and then let us ya," She was surprised that sle could speak so cleariy, without her voice breaking again into sobs.
"There's some news in you, click."
"News?"
"Me and you are eloping to hernu tow night. Your folke slay kind uf think that youre rumning , off with the upile, so they maybe won' 1 worry the manch. Pefore we get a license. chick. I'll fix it sis youll think marrying me is a ereat idea."
"What"s has?" asked Kicks.
Big Tom smiled. "l wurked me unt a deal. After a little I want you and Honey to dig out the folks' aldresses for these two. You go the the all-night Western Lnion and you send a wire. The wires
say sumething almut have and that it's

"When you come back, the chick and me will be frimols already. We pick up the Jag and head for Remi. We rack out for whatevet time it pakes the elich tu see that marying at Big Thm is great. and we get married. Like in pictures."
"Sounds yreal. except where do we come in fur the cut? asked Gage.
Bi. Tom minted to Arthur Mitehell. "This pigeon is fuurs. After the chick and I take off for the rest wi mur homeymoon in a conple of hours. you and Honey can work in the coltege boy. You sot a canera, you got weed leere, and you got Honey. That wught to be cmongla to work with for a nice steady take for years tu came. This gigenn probably thinks he"s respectable."

CGOULD be. Could wark." said Kicks 1 thoughtuflly.
"I never believed there could be peaple like you." Eaid Erika slowly.
"There are, chick. There are. All over his huwn, all uver all towns. heal solid bad peosple. jusl like us." said Kupplen.

He pust lus lig fist against Erika": cheek. She did mol Hinch. With increasing pressure be turned it. the knuckles grinding into her choek. It was olte same gesture be had used at the Bada.
"The hig surprise. Erika, is thut you might even get to boving me. I wa kind uf danced a little that way. When 1 peel off all this matside fork they've tuught you. and gela dawn (1) you, malle: you might even surprise yourself. Hey, dont?

With his rough hand lurting luer cheek. Erika still stond straight. her eyes narruwing as she luoked al him.
"Big slil.,"
There was nu sound in the rimm except a rasp of lireath [rom Miteluell. and her words.

The fist suppred burning proshed at her in angry vinlence, and she went over. Erika put her lands on the dusty reg: rose om one knee. Her face hurt. and she had a brused shoulder when Kirpten knocked lier to the thons.

Six poople in the smail romm. Arthu: Mitchell rulling on his side, wne hand to the back of his lread. his nowuth hanging open in pain. Harold Jotuson and Duane Freeposter watching this as they hats wached lhinge mach like it before-some new girl getting roughed by Big Tom. Husey was standing by a tahle. picking up records frum a tuppling stack. There was a small recosd player un the smeared and "igarete-durated able top. She had heen rouphed around by Big Tom. and She ralner liked in.

Bis Ton was landing aloove Erika. his lands ktonned lihe immense fists. He was tring to look amused. non angry, and so his face had a curious rigidity.

Erika was still on ane knce, luer stule fallen on the Howr. hees hare slomiders hright in the light of the ceiling bulb.

Kupgren lowk a long took at her. then lurned suddenly and walked su Mitchell on the cunch. The buy tried to get up swinging, raising his arms, and Kuppien Etraight-armed hime kanking Mirchell
agamst the wall. his head bouncing. Again the big fist smasthed into the boy's lace and Mitchell fell forward. still corscimas hat hurs. He didn"t move.

Erika was on her leet. and she reached for Kupquen's eyes with her finperats. He slapped her with an open hand. and she went back across the romm. sill standing. Cage graluthed her. Luckiny her arms belind her with his left hamel. and lacing his right hand inte her hair.
Kuppten reached intu the breast fueket or Mitcleell:s jacker and brenght wat the hry's wallet. He leafed through the muney by ruming lis thumb from one side of the walles to the ather. louk out the eard fulder and bused the walle: in the seat of a broken easy chair.
"Where"s tho rhick's purse?"
"Maybe still in the car."
"Okay. Ymu go see, Kicks."
Erika stumbled across the roun, badly shaken. ta Mitchell. The boy had me hand river his hereding mouth. Frika put her arms around him, her fisgers pentle.
"Don't try to fight him, Artlun. IPlease donil. He's like a tiger. too bige too stromg. He"s crazy. He wants to kidnap me, and he think: I'll marry him in Reno if he messes me up enugh." There was a keening lurrying to her words, as if hy saying them the craziness would be apparent and K'upplen's secheme would fall apart from its own nomsense.
"They"re going to wire uar folks. so they'll think we've ran away together. Then thry re going to do something terrible to you und Honey so that they can hlackmail you. Arthur, Arthur, ArtlurWe've got to do something!"

COLPLF ATTACKED, BEATEN. Erika could see the headlines. remembering sudderly how often she had seen them in the Chronicle. COLPPLE ATTACKED, BEATEN. And sometimes a picture on the front page, the firl ins a hospital bed, her face covered with handages. COLPLE ATTACKED. BEATEN. "After being hell for severad hours by a sadistic gang of young boodluns, the girl was found wandering .
How many times had slie read this?
Hut as her fingers carcssed the swollen Lace of the boy. the exploding tear within her was that there whild lue nu headines.

What would sle do after two tir three days wish Kuppien?
What would she do when stse was at different Erika Londun, sonething hurl. twisterd and changed for the reat it her life, with no more campus at Berkeley. nos mare sereme comflence in hereerf. no mare faith in an urdered, decent wartd?
Mitchall's bexd was on ther breast and the boy was shaking int in special kind of agony, that of the young man who has nit been 小rong enough and whose girl is beiag taken from him ita vielence hy a stronger man.

## CHAMTFFSEVFN

KICKS came hack with Erika's purse and 1 ig 'rom went throught it.
"Now listen careful. you two lou get these audressen right. It wass in here to notify Arthur $H$. Mitchell in case of something. In this other ane the doll's
oid man is listed as Duncan London. You sead the same wire to buth: 'Coing to Las Vegas to get married. Love. Got it? Take my car and gn to the allnight Western Union downtown. Just you. Kicks, and you. Honey. I'll give you a couple bucks. Gage. get the guy's keys and find that Jag. It'll be atound the Bada somewhere. Bring it back. You on it?"
"Yeah." said Kicks. "How's about a lintle of the money from that guy we knocked off tonight?"
"Later. Don't heat up, Kicks. Get this done. We're going to score lis tonight."
"Yeah." said Kicks. "Sure thing. Tom."
Duane Freeposter was looking at the girl. his eyes an ther bare shou!ders.

Big Tom noliced and laughed. "Nut this une. Crage. I've tossed you plenty of 'em. but rot this doil. I keep this exclusive for awhile. You might say thins is my fiancée. Crazy. huh?"
Frecpnster"s eyes turned away from the girl.
"If the apple tries again. ynu"re al! right?" asked Harcy.
"I've worked him a litte. ['ll make him a little silly before I do the big job of wark I've lined up for tonight." Big Tom's mouth was wet and toose. "Move. Giet thase wires out and get that beautiful Jag of mine back here."
Freeposter flicked his knife open and walked to the cotch. "Give me the keys."

Erika reached into the side pocker of Arthur's jacket and hanted the keys to Freepuster. He stepped buekwards. the knife painted utward and ready.
She heard the door close, lieard the rumble of the Buick starling. The ranm was quiet.
") nu mijht as well get your chathes off. dall. Unless you want the to do at fit your. . ."
She didn't want to tum around. She wanted to stay there. Srozen. with Arthur's head against her. her hands tight on his stoulders.
*All I can du is to scream, and keep screaminge." she theught, and the fear of pain locked her muuth. She knew what would happer with the first sumat-the club of the fist un her face. The fear of pain. the sick knowing the sercam would not help.
"Get up, doll, and get those clothes off. I want to talk to your ex-boy-friend. He makes tre jeatous."

There was a chance. It would be a cruel thing, because her chance could only come while Kuppfen was "making Arthur a little silly"-terrible wordswith those clubs of fists.
But there was no other chance. She was afraid to scream.
Erika London stood up, and Kuppfen watehed her.
"I'd rather take them off than have you tear them ofl."
"1'll give you a little strip music. The real exthing kind. chick." He hit Mitchell in the face and the boy tried to roll away, to stand up. Kuppfen brsught his heel duwn hard on Mitchell's ankle.
then slapped him with the heels of his hands on either side of Mitchell's jaw, in a quick rightaleít.

Erika"s eyes humted frantically for something to use-something heavy.

Big Tom swung suddenly around. grinning.
"Luoking for something to bit me with. chick? Try it. I like to be burt a litte." He reached for her and she stepped backwards.
"Start getling those threads down, chick."
"All right." She reacted for the zipper at the side of her guwn.

Mitchell was standing up, nut steady.

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## HOME SHOP ${ }_{\text {TOOLS }}$

SkIL Home Shop and Builder'I Saws avoilabio in G* $^{*}$ $71 / 4^{7}, 81 / 4^{7}$ blade sizes. There are more than 22 SKI Homé Shop Tacts to ipaed work, sove lime and money For home-owners.

Big Tom was watching her．hut she couldn＇t let Arthur try again．Kuppfen would break his face with thase greas cluh fists．
＂Don＇t．Arthur，don＂t．＂
Kuppien spun around，and waited like a giant cat．His rightit kiece was raised a fittle，ready to come up in a tissue－smasll－ ing thrust when Mitchell was cluse enough．His hands were open．the fingers almost straight．He infented to lurt the loy，pretty much for keejs this sime．

Exika ran to the dour．azied tor full it open．This was the nate clanere，the chance she would have rambled Kupp－ fen＇s fists on Arthur for．becanser it was their only clance．
The dour was locked，and she upened her math to seream．knowing what would happen then．

The door made a little rusis－metah notse－and opened．

Erika was standing almust int 「runt of it．Big Ton Kupplen was in the renter of the room．Arthur Bitchetl stupped． three feer from Kuppfen．

The dour swung upen and Frabk Wurth Williams fullowed his knife into whe romen．He kicked the dame chased be－ hind him and the tale latel clickeal．He stowe with his back to the clowed dour．

Big Tom knew a filal play when the play was shown in the lorighi，Frur－inelt blate，slown in the wide－upen eyes and thoma arin of the Goplare．He had a hur romems behind hien，a killer in trome of him，the girl to walch．The six－font－funer honty rested easily．like a thick－wround opring．and the fromt of hiss feet，and his hands were up．He fingers bent a little now．
＂Ies．：＂The word meant that this night leat Ic，lave this，luw．＇The final play． There wauld be no ather words．

Frank Worth Willianus let liss body bund forward．has left hand wide and a hitte helhind him．his righe armout from Iis cliest，the blate forward and upward． He stayed with his lack to the dour．He wanled Bize Tom to come to him．

Kuppren figured．Like Willians，he wis griming．He wits figuring：wait and
let the dapler mane？Or risila the smaller man？
His own nerves ande the decision． Befure the had tuld tris peowerfal muscles the noter．they hard mowed involuntarily． He was going forward．thward the erin－ niny face and the or－cuming point．
kuppen half turned as lie reached Williams and his left hand clused mon the binghere righo wri＝1 ats the kinfe hand tried in reach anumd Kupplen＇right arm and side．His shamber knorkent the fingher ayainst the durr．trmin\％日昭 der the Gupher＇s chin．
Sow Big Tom lurmad．the lefi hasul viced in the Gopher＇a wrist．pushing it and the knife up aytamat his chin．His ripht ant was a sted lar actus ile －thail uf Willian＊＊loack．and le lifted ther smaller stan up from the Hiser．

The：fipller wa－shenting ormuls Itat were nuh womds．Big Timm swlod．and his booty semed tu prow．lu arch．is his lefi arm straighemed and the Conpler＇s：
 Frank Wurth Williams Man a high．clar sulte of uter prain

Kupper dronged hime the haike clat－ reving to the Hewr．fo ihe Snudy rulled on the dusty ruy．the eye＇s and mouth were neren，the lieat tilted to nome side．

A litter，lonely．empty life was diste will．The carefutly learned worls and manmere no lotger merded．the well se－ lected dothes lunght with wirthleso atherks crumpled and neeless．Twenty sare of life，and uever mine in the I wenty sears and Frank Worth Willians been hapms．

Big Tiom Kupplen louked at the Iondy．
＂I broke the cat＇s neck．＂His fout lwoed at the leody．＂Crazy，Real crazy！＂ The words were slow and heavy．
Thens Erika screamed and he was upun her like a great cal leaping．his tande reaching for ther．
Arhur Mitchell，his face I wisted and his mouth trying to bite air for his langs． pushed himself toward them．

Big Tom pusled Erika away and turned to meet Mitchell．The giant clubbed the boy tuward him with a bige
fist that lowked around the hack of Mitchell＇s neck．Mitcheill lowked up into the hox－6puare．thim－loned face：Kupp－ fens eyes were loright and he was grim－ ning with his teeth together．

Kuppfen＇s left arm bent to a tight ari－ angle and he swang it，the point of the edbuw coming laward the side of Mitch－ all＇－lowillike a skull－chatzering ham－ mer．The boy dog his face against Big Tism＇anes．

Firika＇－tre were on the knife，Ilue Gimber＇s slim，hright knife．on the flow． She knew there were inly seconds left of life for Mitcliell．whly speonds Iefo or any real life for her．But a knife

Kuppien＇s thack was in her．and sthe anold stane libe dow pleasure he was laking lowfore la ${ }^{2}$ mashed down the man before liom．But unly senconds left．

She was in liox hack．lier knew tearink at her－kirt as ste wrapped her lepe around hi thighs．pulling theremplith buer left hamd on bis throat．Wer right land in his hair．netr his heald lur mails luwking into his cyes．The big hatard burn back and hos waila hit intu benm and bisuse．She felt his lands reachiad batek． then une hanal wher waist traing to pall the serrible lingers from his eves．

Arthue Mitclurll brought his knes：ap lard and fast and there was destractinn
 How and nerves．＇The giant＇s hatol：「ell away fran Erikit．and she dropurad froms lisis back．looking first in wonder at bers bondy fingernails．Big Tam was bent finwarit．ons hand fulling upward al his groin．the wher wer his eyes．

There was no merey left there．Witchell picked ul a chair amu clubbed Big Tum to the Hbur amathing the chair．beatinge at the ruined man with the broken pleces．

It was over．Kuppfen lay cluse to the bady of the Gupher．Miteltell put his arm around the girl．

They would have to find the police； there were these twin to be taken care of． there were the others to he found and taken downtown．．．．Later．there wumb be home and a return to life．．

He led her out the dowr．

## How to Make Hay with an Atom

Consinued joum page 33
＂I don＇t knuw whe it＇s going to be．＂ Dr．Wendell Peacock said＂hut some－ note，and soon，is guine to find a way to make a fortune nut of this atomic thinge．＂ f＇eacock，at the：terader age of lwenty－ tive，was the grmupte muclear specialist．

Every head notded in aprement． There was．tos be sure，a furtune to be made in the atonice basiness．The tirol men whe coulal find a practical way to utilize the atom for industrial purposes： were guing tu step into a powerfal and lateative world，like a man taking his lirst step into an unexplored diamond ticld．It was Bill Barbour whun phrased the ifuestion illat really hathered them．
＂And just luw？？＂
There fell，it is reparted．a silence．
＂Well，＂Peacock fisally veutared． ＂iliere＂s always isotnyte．＂
The word hung lnefore them．prosemant
and ripe．waitisg to trive hirll lon anome of ideras and possibilities．
The reat of the ment at lle talale knew about isotropes，as did hundreds uf other scientist－．Bul exactly what practical． coonomically feasible use could tre made of them was anotlerer question．Musi cientists．impressed with the immense bing－range pussibilities，had nan given much thayght to the practical．wembay hesex iontupes might be put co．
Thete is nothing very palfond almor i－ntupes．They are exactly like any onf itue oltur lasaic stiemical elements ul matier except that they emit radiatians． This is the sectel of olseit value．An ianoppe can be traced．Wherever the lantastically small fantrole migh go or tinally be lodged，（inside a steel pirder ＂r at－a particle in a hig lorich．for in－ Hanter its movement ur presence is
broadeast by the radiations it emits and can le detected by an instrument as simple as a Geiger counter．
Aly jowope ean be made by the sinula prots of taking sime metal－say．guld an colbalt－and finserting it in an atomic pile．Left there for a certain amonat of limet the element becomes radioactive．

It difn＇t tak＂he young sciemtiste long 10 are great pusibilities in isutopes．
Sumente ongrested that by insertian a mimute particle of same radinactive ehmest in a pipeline you could trace the how nit wil or gas，and pin－paint Whockager ilat offern cost oil and gas： companies firtunes to Jocate．

Dr．Peacuck already knew that ish－ sopes coruld be inserted in the human Droly．and their passaque tracest and studied．So one could estimate what this might mean to science and medrene．

Certainly hospitals and laboratories all over the country were waiting for some outfit that could supply them dependably with isotopes for experimentation.

This was only a fragment of the beginning thoughts. Before an hour had passed they had conse up with a dozen uses for isotopes, uses that conceivably could revolutionize some phases of life and industry.
"Take anoher item," Peacock said. "There isn't one decent automatic radiation counter on the market. I know. I had to build one myself. We can make those."
"And instruments to handle hot stuff." one of the others said. "No one makes them. Y'ru have to devise your awn. Handreds of hospitals and laloratories are crying for just such equipment."
All of these needs were obvious, so chvious that no me, it seemed. had ever stopped to do something abost them. Mankfacturers didn't know enough ahout the problems to attempt to answer them and most scientists were much too preaccupied with theory to consider going into the prosaic production end.

As the evening wore on the young scientists became almost delirimus with the immensity of what they were stepping into. By ten o'clock the men. under the direction of Witliam E. Barbnur, had formed the first purely atnomic business in the world.
"Sometimes when I look hack on that meeting." Barhour says today. "I have tr shudder. At thirty-five I was the old man of that crowd. All the rest were well befow thirty. I should have beer the ane to know better than to rush inta such a wild venture. Instead, l was the une whe persuaded the others to come is with me, and I was ready to shoel the works."
The "works" consisted of \$26.000. the resulta of Barbour's savings hefore and during the war and of a well-placed investment in Raytheon stock which had boumed from sixty cents to twelve dollars a share by the time Barbour sold.
The others were tuput in 81.500 eacl. although some of the mest were never able to dig up that amount. Working for the Office of Scientitic Research and Develupment had made anbouly riclu during the war. Over the violent jurnests of his wife. Dr. Peacock put down the \$1.133 he and she had painstakiugly serajed tergether for their first car
By midnight. their minds exhatusted from much far ranging. the group had chosen a natme for the company. Tracerlah. Inc. It stitl bears that name.
The next morning. when the flushy of excitement had paled sumewhat in the harsh light of realistic day, Barbour and compuny had good cause to suspect that perhaps they had allowed themselves to gel carried away.

Fur one thing, no such business had ever been tried hefurt. There were no guides to follow and there weren't even the bones of previats failares to warn then uf potential traps. They were traveling alone in virgin country.
The other thing was the fact that the Army, which at that time was in sole

charge of all atomic activities, had given no indication that it planned to release any isotopes for private use

Tracerlab. Inc. had prablems, but Barbour in a stubborn man. After incorporaing Tracerlab, Barbutr reated. for $\$ 195$ a month. three ancient, dilapidated buildings on Oliver Street. near Boston's waterfront. Immediately he sublet the main floors of two for $\$ 150$. a move typical of his thrifty and shrewd way of running the business.
(Eight years later Bill Barhoms repeated the same stunt. He picked me up at Bustun airpurt will his four-seater Cessna to fly me to his homase in suburlan Concord. and from the air he peinted out the forty-hree-acres site bunglat for a new S1.000000 Tracerlah plant at Waltham.
"We've just suld eight acres of this plet to another manufacturer at a profit." he told me proudly. "Besides, they're guing to share the costs of toringing in utilities, grading, and buidding roads."।
The youthful stackbolders of Tracerlab personally cleaned wat the rubble of decades from the dank Oliver Street buildings, Feveryme pitehed in. wiedong pickaxes and pushing wheellarrows. Barbour himself buith all the wooden partitions and workbenches. Dr. T'eacock was kept husy sweeping lionss. Some nights lue would bring down his wife to help cut and strip wires fur the first Tracerlab product, the camplicated Autascaler he designer.
This is the device Dr. Peacuck brought up at the first menorable mecting in Camhridge. Its purpose is fo cemant the
number of atomic disintegrations of an isotope within a given time, and do it automatically, without human supervision. Such information enahles a scientist to calculate quickiy and simply the strength of a radivactive source. This knowledge, in turn, is all-inmportant in working with radinactive materials, for it teils the user what effect the isotopes he is handling will have on his own health, and also what he can expent of them in their applications.

As even the doorman at Tracerlab knows, the standard unit used in measuring atomic radiation is a "curie." It is thirty-seven billion atomic disintegra. lions per second-a highly potent amoznt of atomic energy. But while certain isntopes are pretty stable as to the radiation they give off. whers lise their por tency in shart ofder. That is why the short-lived ones in particulal lave tu be checked freguently to see how much af their power is lefs. It is in this operation that the Autuscaber earns its keep.

Dr. Peacock, in designing the Autuscaler. counted on the fact that some isutopes have only a very brief "half life"meaning the period uf time it takes for then to lose half of their putency. Thar-itrm-106 thas a half-life of only thirty seconds. Bromine-82 has thirty-five and a hall huars, the much-used Iudine-13I has eight days. On the other hand, such isotopes as Carbon-14 with a half life of 5.720 years, or even Nickel-63 with eighty-five years, need little checking.

With all this measuring to do. abviously any place handing fissionable
materiats nombd wedl une an Autuscaler ur its equivalent. That is why Tracerlah": firs pronduct was an immediate success. In a matter of a few weeks after they etarted in busines they got orders from universities. hositals and government installations for fifty-etight units at sis. 50 apiece. The Sosiets ordered iwn Abtascalers but never qut them.

Despinte this succes. ly the summer of [946 the mew firm was in pretty ban? Ahates. Detiverite were slow and all "f the company's money was tied up in equipmenat and parte. In consequence. Whree of the foundets hat to guit. Humer S. Aesurs. will a wile and four childrem. rmaddnt wel along on $\$ 200$ a menth and pulled bat. Jame hi viles and W. Haymand Gustalsons fullowed =nit. Bill GarImpur and liay Gheelarali were drawing mu -alarips hut thelardi has anoher joh and workeil anly nigho and twhidays al 'Tracertah.

Hither. Pratork wa- summoned to, work at Oak Ridge. One day Barhour fomed himeelf the only full-time emb. plove of the company.
 a firm dealing in sexhly fantastic. unluearifof rommondite an "Traterlah. Two sf the puot-war organization- formed th tinatuce new inlustries were interested. Dut they amanded control of the company. and Barmor would have none of that.
$\because l$ never had any intention of piving "I." -ays Bartmar. "but I was sure glal
 fil being formed in hosion undes the name of American Research and Devel"pment Cutporations. I lusi na litue in metling ower there."

Behind A.R. \& D. were umbl financial higwigs as Senatur Ratph Flanders. then Leresideat of the Fiederal heserve Bark


 of the Harvaral Brs-inus. Schoul.

AपYONE in Buston will tell ywu that General Darion ha- |wo deep-seated romvictians: "Amerin'ans bon'l work maugh!" and 'sprepeciate the value of a nickel!" saym has Crhatardi. "General Dariot chnee Thamkegiving Day to deseend (nl un and lands over Tracerlah, He was
 He liked atue ideas hat we sabed money Iny hailding our own furniture ant equip-
 pretty groul. exceph lor a lack of working "apital."

Still. it luak seteral wepks of negotidtions to work wht an arrangemen. With Harbunt and a-sociates thewing lluir nails.
"ll you ever need money antl then get a cleck for a humbred and lifty thousand after busimes hours. donit worry abokt what to din with it," says Hill Barbour. "We got mars on Deceuber 31, 1946. In was a masty, stnreny New Year's Eve, and it was after seven welock, but the State Street Bank stayed open just for eur bentit. It was quite an experience depositing that check."

At about the same fime Barbour had
 Manhatam l'roject. which had developed the t-fmaln, wak dinlanded. and its work turneal user as the civilian-cuntrolled Atumic Forery Commionion. late in Augnat lie Commiesion began releazing inotupes for commercial use. Hnwever. Hey alan set up a stiff priurity system. Firal mack at istonpes would gen to howpitals and reararch lahuratories, Barhomar. fipuring that these institutionWhald lie shaw in grasping the signifitance of olne AEC move ur to take at santage of il. apolied for isompes al mine. De-pite ghan predietions, he gal them,

II' DIDN"T hunt that Barlowur"s clam. mate and fraternity brother. Carroll L. Whasun was appuinted the first weneral manarer of the ABC. "That is all mar "[ Barbur"s "]luck." IEe setme to know. and makes it a poin to know. exeryone whon is imponamt in hi- ficke. Early in the wame he managed In attrat such prople as Karl T. Complom and Admiral Luwis I.. Stratses, the present hrad of the Annaic Eneryy Cummisinn. to serve un He lanazal al Tracerlals.

With a sulid piece of tmaney in the bank and with isolupes becoming availuble from Oak lidge. the radioactive mitdyet was ready to atart growing. With i-wnupes. Tracertal, wald begin lising up In its name.

The Iousiness "f "tracing" is fancinatins and impmiant. The preseme of less thath a hillimon-billiuntlo of an mance of inetope can be detected antl traced Whomgha living budy or plant and how just how furs and fertilizers are utilized. just wheve they gor and for how langThis catae simnalizag capacty of isotopes is netw heed in lundreds of ways by inalustry, and a liralilly mumber of way= were discutered and perfected by Trucerlall.
The Autercalet. Munult a *uccess. wa hat ranugh to carry a major busines. Traccilabs next venture was the buildine uf the Beta Game. Dr. Pracuck had emisimed the machine and the idea hat fatmons right in Hourard Johnsans: The Bota Cange is truly a fandasise machine. 1.arge immensely complicated and ex pensive (une couts armund $\$ 20.000$ ) it is like the famms Jarkerf-all-trades. with the exception that it is master of many. It has hiterally thousame ul uses. Torlay it is in use hy makers of maper and rubber intulucts. How coveringse metal hoils. adtuesive laptes and anylhing else that cunes ofl a machine ig a continuons slued.

Without thuelinge the material. a Brat Sauge am measure its thicknens and then autumatically adjust the machine so that the propuer flow is ahtained. It will measure suft and sticky materials. like rulduer wa backing. or adhesive on a tape. It works by shooting hetu particles al Strontiuas-90 ur Cesium-137 Hrough the moving sheet of material and then counting the particles on the Whar side of the sheet tu see how mary have luen absorljed. If the sheet is tno thich. a low count will show in the op-
pesite side; if it's tho thin, a high count will show. One maker of linoleum saved $\$ 150.000$ in a single year with his Beta Gakge simply by not using more asphalt than necessary on the felt hacking of his prodict.

There is hardly a day when some emyineer in seme remute section of the corntry don't get a new engenturs indea about pilting the BG lu wark fur him.
sile of Tracerlab product- went from almost mathing in 1946 to $\$ 700.000$ in 1447 and loy 1949 had more than luwhled. to $\$ 1.700 .000$. This was a long jamp in fuar yeare frum the enthusiastic dimner and the rewultiny drah dave that follomed. Wiath a sulid hackleg of work and unders bethinal theme at Bension. the Tracerlab huvs had a new freedom to branch not and experiment will sume of Ac mate amazary anpects of their busj. Hes. Anech of the sementinal work was with "tracers." Startling new uses for thert semed In j"p ur every day.

Take the jul a Heracher. Illmois. where natural gas fram Texas is stored in some twenty hume undergromal caves. The gras wave Herscher"s drinking water an unpleasant liste. sen Tracertab dropped -rme Argun-41 inta the raves bo find the Jeak. By scomping the comatryside with Geiger connters lisey som detected a rallinactive hal spot where the Argan-41 was seeping wut. Thay plonged the leak and Herscher wa happy unce more.

TWEY need Colialt-60 to sulve a similar prohlem witl the leating system of a Manchester, New Hampshire. lumber sard where $\$ 100.000$ warth of plywand was bring ruined by a hidden leak. The Lueal plumber declared the entire conerete foundation worde have to be riphed un to find in. He stnod by leering as a Iechnician frum Tracerlah placed a minute pinch of Cubate-60 in the boiler. That lewr was wiped off of his face within an Anors when the technician, checking the warelnuse thor will a Ceiger comater. hit the leak right on the nose. Water supping from the pipe had created a yadinactive that epmt which was easy tu fint.

Tloe ail industry is perhaps the greatost user of tracing methods employing rudinactive sintopes. Trueing the separation between shipmemss of gasolint. Anse ail ar dierel nill inside an wil pipeIine has lecome a simple matter by the injectime of a frw drops of Antimung-124 betwen the shipmente. A Geiger counter in insolled a few miles upeream from Itse end of the pipeline and signals the arrival of a now Hhement so that it can he diverted int" the propher tank: This nuthond of "interface tageing" las heen made fully automatic in some places so what the radioactive simals hemselvan upen the righ valves.

Speaking of pipelines the ketgest atal tuaghest radioactive tractr project ever rarried out involved the clearing of a new $625-m i l e$ line from Sarnia, Ontaris. tos Superion, Wisconsin. with the aid of radinactive "go-devils" or scrapuers. All new pipelines have to be cleazed of obstructions to insure an even flow of oil. The scrapers are forced liydraulically
through the line all ofre mike an hour but they often get stuck．The problem is to find them inside the enclosed pipe，which itself is several feet under the fromand－in the case of this particular line even un－ Jer the Straits of Mackinic．Tracerlab tagued the go－devils with Cuhals－60．and in engineers followed them on font．by jeep atul buat for three momblac．The gn－ arvils gut stuck sevaral limes hut wers imnoediately pingminted with Ceiger fonmere．Reading a news itern almat thia．a waman askitil to tway ame Colbalt－
 staceline shar whatimed her ducturs combint finel．She didn＂I get it．

The mens hizatro mise af lraxiny en furred．a－van mixht rxuect．in Cali－ formia．So that the sare＇s lezalita athicials combly and the miydury latait－of muspuitus．Trucerlat wat yiven dip

 dente he timbing the inserts dite with
 litroic wark．aspollo wite able be follow

 lur fentad by their Inazainy whine ：lary plaseal in a mest ifltale maname．Prom－ smathy California has funmi ont－wine－
 brible ways and peple ihere thanks on
 and sparching is the fature．

Almat half the new prajects Tracer－ lat is working ont are pormeorel jubs far the urned serwies．One suld propert． which fus been reromely declawified．is a murtear battery with a useful life of thity years．Develured for the Simal Coram it Hatan Trilina worla $\$ 100$ and ran give
 prownt law art military，manly an a Iriparering devier．hut athe day it may In






 Chemisal Gorpos．Tracerlath i－tringe ${ }^{\prime \prime}$ fisul 4ill with the aid＂of Carbmoll f．why and luw lar phatst humarne 2．4．1）causic
 thes bill thetwoetwes．Fin a rhemical rounally，thry rlewherd a defolians In

 illuthey flithotarlurer the sece whether it alfacorel amimal－lhal alt the flant－ Hrallal with it．

F
 fine Io find win whether the jet blast （tomaminaleol be air salughes taken at high allilmines．and are new conturting expriturnts with J＇ritime to see fow radtumplite gates spread in the atmus－ fhege mior short distances．measuring radinuctivity smalter that one parl in lokt trillinn 11 100，000．000，000，0001
Sometimes work with the new－fangled isntepp＝Ivad－1＂taniot trouble．＂By im－ theddisg raslisactive prellots in firebricks． deselaperd a methud fir a big steel
company near Chicugo thad would allow them to check the limingre of their furn－ aces without having to slum down opera－ lions．＂relates Bill Bartumr．＂Buk the bricklayers＊union refused on lanelle the bricks and wouldn＇t allow our engineers to pur them in place．su the project sell through．＂

The averase man＇，lear of radioactivily is onte of the reasons why funds are not being presersed bs irradiationa．Anmher reasele is a slight change in laste and relor．ahtomyli ste isolmpes actually keep fruit，milh and meat fresli far weeks without refrispralion．

T
 in the medional held and the mowt celo－ Lirator of there i－fur caneer tseatment．





 time－white the half life of ratiam is six． leea centurio．lan it is atill a gamblys． ＂ne of the thing－wh the oredit sifle for the A． 1 amb．


 inge out cerlaim parts of the Jondy．Londine－ 181．For inolatere concemeate in the thyraial glami and clearty nutline Josh heallon and danlageal limotres by radia－ tini．Tracerab fust broupht men a new \＄3． 510 －caminim mathime which drame a piolure somewhat like an X－ray photu－ yraplo．remasting this radiation，Other tarlinactive complomindo are neen to find lirain tamor－madere the heart antput． and give the howe volume of a patient heforit a dangrone：operatan．This in None in a simple and ingernists way by injoretinge a minute ammont of Pluse pherros－s？imbe the blame then taking a sample and meth－aring the dilution of Itar phomitharin．

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## IN THE GARAGE

Keep an extris can in the tat rage for oiling cas doors，gen－ erator，distribestor，cte．Hishly pemetrating 3－1N－ONE makcs things run better－bast longer．

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raw material, mustly an urganic compound called stilbene. is heated to 125 degrees Centigrade, and the trick is to take a whole week in cooling it uff gradually. When ratiation enters these crys. tals they give off tiny flashes of light which are transformed into electrical impulses. amplified. and registered on a meter.

Forking in a place like Tracerlab has its dangers. Diy and night a couple of dozen Geiper counters keep chattering throughout the premises. giving the "backgronind count" of normal. trarmles: radiation and autumatically warning against dangerous quantities of radirn active materials on the kose.

One day the counters in the main building suddenty stated clicking furiously. indicating tlie presence of something strongly radioactive. The alarm was spread. and while most of the employes made ready to leave, emergency crews rushed a systematic check. Then somebody pointed a Catie Pie toward a wet fire escape simply bristling with radio-activity-it was raining outside. and the rain had caused a "fallout" of materials originating probably at sume distant atomic proving ground. It was nothing unusual. and the quantities of radiation present were far from being really harmful, but it just so happened that Tracerlab had instruments going which regislered the phenomenon.

A "fallout" of this type occurred right after the first atomic explosion at Alamogordo. It happened to hit a wheat field, the straw from which happened to be later used for making cardboasd. which happlened to end up in the form of hoxes for the Eastman Kudak firm. When complaints rulled in that the film was fogged. Kadak made a check, discovered that radiation was the cause of the trouble. Ever since that time they, and ofter manufacturers of sensitive products. regularly check every ingredient they use with a Geiger counter.

INN ADDITION to being protected by Geiger counters in strategic spots, most people working at Tracerlab weas two badges and a gadget that looks like a fountain pen. One of the hadges is required by the government for plant security. as half of Tracerlab's work consistes of highly restricted military research.
The scond badge combains two layers of film which measure radiation up to thirty roentaens. The films are developed every werk and checked with a dencifometer to determine to what kinds of radiations and huw much of each kind the wearer was exposed. Besides checking the badges of its uwn employes, Tracerlab runs a fimb badge service processing 5.000 badges a week for other atumic enterprises as well as for hospitals and X-ray labs. No worker is supposed to receive mare than a 300 -millifoentaen exposure per week. accarding to AEC recommendations. If he does. his employer is notified. and he must stay away from radiation for a while.

The gadeet like a fountain per is a
porket dusemeter custing \$42.50. It can be hetd "IJ ayaisst the light bo show a scute on which expensures up to 200 millirsemgens are registered. With this de vice ther workers can check Itemselves at any lime, even before their filta hadges have bern develnped.
In a "hot" place dike most sections of Tracerlab. even Itte disposal of waste is a problem. Old containers. waste materials, anything contaminated by radioactivity is carefully collected. put in metal carls, covered with concrete, and hansed to the Navy which obligingly dumps it in the ocean off Graves Light in Boston"s suter harbor.

Precautions are strictest in the "hot lab" proper where workers wear protective clothing and overshoes, and muni be checked with Geiger counters whenever

they leave so that they won't carry out saray bite of radioactive materials.
In the hot lab the more putent isotopes are kept in heavy lead containers below the basement Roor Ievel. At times Tracerlab stocks radiochemicals worth $\$ 100,000$. It takes a 270 -pound lead container to safely store as little as three and a half curies of Cobalt-60. That is why it utten cosls more than the price of the chemicals themselves to ship the shorter-lived isotopes, which must go by air.
The hot stuff is handled with remutecuntrul tongs, forceps and pi-petting dewices which are fastened tor reds two to six feet long-equipment whicl Tracerlab makes and sells. Some of the isolupes can be purified and compounded with other chemicals behind heavy glass watls white others muss be landled behind heavy shields of concrete or leal laricks, with the operator watching his work through a mirror on the ceiling.

Around 'lracerlaly yus never know whether you are lampiang into a porter or a Phi.D. Everyone dresses "infurmally, th say the least. Half stre employe are scientists and engineers, and every. one is young-Eo young that the salesman whin came over to negoliate a groapinsurance contract was first incredulous. then disapminted by the low rates he had to quote.

In al corner of the physic: lal, we met
a young man with crew cut, dirly white sueakere and worn slacks. He turned out to be chief physictst Dr. Joris Brinkerhoff. a frightenimgly hright individual who wa in the precess of shonting 250. 000 volls amid flashes ul hilue and purple discharges through a mixiure of Burslhiam and Polunium in arder to gemerate nuturons.
"Same reaction an the H-lzembo." hee explained cheerfully. Then. as we sarted hacking away, he added. "Vo chain reaction. though. The discharges are not self-propapating."

With the meutron generatnr vare will be able to make yuar own isatopem-- purn certaira elements radnactive. In furm of a neat console the size of a washing machine. it will retail below $\$ 10.000$ and do the job of a $\$ 20,000,000$ chemical source.
The two men running Tracerlab today are ite principal founders, president Bilt Barhuor and technical director Dr. Wendell Peacock. They have turned nut to be an ideal team. with Peacock generating the ideas and Barbutar putting liem into effeot-each of them secretly wishing all the while that he were the other. There were times when Peacock could have used some of Barbour's administrative ability, and when Barbour "wished I had known more of what I was talking abuat."
A bustling. energetic. sandy-haired man who looks like Charles A. Lindbergh. Bill Barbutar has all of the llyer's dogrged determination and almest blind optimism. "It hurts me to pass ap opportunities," he says, "and every time I have to turn down a new idea so that we can enncentrate on what we are doing. it's a painful philosophtical decision."
As the age of ten. Barbour was huilding radios, at fourteen he held a ham liccnse. A burn gadgeteer, he has designed his own spruwling, ranch-style home uverlooking the Concord kiver. built most of it himself and put in such gimanicks as garage doors which can be opened and closed by short wave from his car: rheostat swithes throughout the huase so the lights can be dimmed gradually; and an intercoms system with loudspeakers. The intercom is connected to a huge shortwave antenna on the roof so that wherever the tlies his private plane bes wife can hear him talking th the airport towers, knows that he is safe and when to expuect him home. He built his nwn swimming puol and filtering system, has a big, well equipped workshop and makes most of his own furniture.

If Bill Barhour hates anything. it's waste. In the early days of Tracerlab he used tor prowl areund the place at night to pick up nuts and screws from the floor and rummage through waste baskels fer usable resistors and the like, Even tuday he will desert a party of big slots the is ruiding aromen the plant to utuestion a wurker why he is using a larger suldering irun than necessary. If they want to discard some old offace furnilure, they have to du it while hre isn"t looking. His uwn whice is bis neat. but cheaply furnished. decorated with a chart of nuclides and a chart of the electromagnetice spectrum.

But he is still willing to ": homit
wroke" whenever the alkations requires, cven if it means strainink his resentces fil the limit. One of his biggest gambles min burlali of Tracerlab was buying Kelehel. a fifty-year old X-ray company with farturies in Cowington, Kentucky and Ginsintati. Ohio-a firm deing more than threre times the vohome of Tracerlab"s busimes.

Dr. Wendell Peacock. Tracerlab"s wher pillar. started off ins the direction of bucumany a "pure" seientist. warkel as such fur many years but of late las developed a sense for the more material thinge in life. It's a relatively recent developmen.

HE. 15 ane ai the trap marlear exparts and has played a part in almust every atumic test since Eriwetok," "aps an assuciate, "hat he is no Oppenlicimer who wouldn't know what's doing in the rulside world."

A tall, soft-spoken ntan of thisty-three with graying hair. Dr. Peacock looks tern years ulder than hias age. las never had time for any hobhies and has not felt the need for them. As a boy of tern in Salt lake (ity he tried to take the magnet tism sha of magnets and ever since thas been absorbed by physics. He graduated with homars From the University of Utah. got a fellowship at the University of Washington, but he wasa" "atisfert.
"Out there all they really care about is fromball." the says $S_{n}$ he grom himself a jul as a research assistant at M.I.T.. tuok the bus east with hes wife ancl set up houspkerping. His powspsxinus consisted uf not much more than a spoon and two sets of knives and forks. He worked with the group that develarped the cyclotron. esncentrating entirely on the radiowactioity center.
"I feel like a farmer what happened Io live where they struck oif." sitys Dt. Pearowh moteraly almoul his ansuciathore with nucleas science. Duriny die war he wheked with tracern th find a mellond for presersing whole blomit stavine al M.I.T. while mas of his cultagate wern un la I.se Alames. But six moruth: after the Counding of Tracerlall the patemanent

 be went to the Sham-Kentring Insiture in tew lark to dur resard an the mediral afplications of atomio rimer
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 eeturned ba Tracerlath in fond at- siow
 up un basiness antministrath
Dr. Peacock: = fampit, marbing greming to lis assoriates is: "Iast night I was werkine on . ." ame thern hat pulls out the laundry wappre if a shirt cowered with formula- tor shan luw during
the night he solved wome [in an whe of his 175 scientists was wrestinar with the day before. Incidentally. instead of talking to each other, these scientists write on big blackboards. une of which you find in every office at Tracerlab.
Athough most of the things Tracerlab does are beyond the ken of the man in the strest. its fame has penetraterf to the general public. It even received recognition from Arthur Gridfrey and Captain Videu, Gudfrey had Dr. D'earnek guesting on his show. and whers some of the teen-sgers miggled hecause sho shoetor somnded as if he were talhing Clinese, Goulfrey made TV hisury ley calling them down in no thacetain terms, And Captain Viden humed Tracelably using its Cutie Pie in tracking down stome vil. lains on a dishant platret.

Such publicity waw bunal t" draw duzens of wdel idfas an! screwtall re-quest- A We-llestry wimat wanted to bus at "ay detwetur" in eheck whether the communiot spies she knew lived next dour were sending theoght rays threagh the walls of her honase in order to pick her brains.

Tu eatch shmplifter*. a large New hark cluhhing sure wanted to impregnate its price fags with isomplex and wet up Ceiger conners near the exile. An amatenr sleuth suggested that atalar bills used for rancom payments tre tayyed. sille kidnapers caulal be fommed with Geiger connters. A hospital wanted to rag its surgical pads so they wuldu"t be furgotten inside the prations: luadies. and a ladies underwear manufucturer anked is lag his nylon panties and lasas the eliminate static - technically a sumbd itea but dangerons in application. In all wh these cases the ABC refusel la what the use of
 for all wales. with the exception of very minate quantion

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working with lle hot sluff. As a final step they also mrucess the safety badges which all workers with radiation are required to wear. This sort of mushrooming arrangement is hard to beat.

Fron one full-time employe in 1946, Tracerlab has grown to a payroll of more than one thousand people. It has estabfished service branches in twenty-three cities, has a new ultra-modern plant ger ing up in Richmond, California, has a Furopean eubsidiary in Paris and is doing business in thirly-lhree countries.

Despite their deniais. is would be smart not to make any mistakes about the fuiure of men like Barbour and Peacock and others at Tracerlab. They are convinced that the world will be run by atmonic energy and puwer-and sononer than most people realize. Right now the fantastically successful Tracerlat, in competition with some of lie biggest corporations in America. controls some twenty-five per cent if all atomic byproduct and instrument sales. If they can hald onto the ratio (and the men are
leaving all profits in the business, banking on research to come up with more and more new ideas! Tracerlab may well turn out to be the General Electric or Ceneral Motors of the atomic era.

With dreams like this and with an as surance consistently proved right, it is seant wonder that neither Barhomer nor Peacuck show the slightest truchiness when their friend and attorney. Bob luick. says with is sad shake of his head. "I have never seen a less mature bunch of young men going into business." • .

## The Kill of the Graf Spee Conininued from page 31

Captain, but I will have to sink your ship. It is war."

Turning towart the lifetess Clement, l-angsdorff waited until the lifeboats carrying the British crew were out of danger. Then he ordered his gunners to upen fire. The sharp clang of steel on steel shol across the thousand yards ul shimmering water which separated the two ships. Slowly the Clement listed and then heeled over sharply with a widening blanket of oil spreading around her.

Langsdorff wanted to be lar away when the Clempat's crew got ashore and spread the alarm. So he turned his ship around and headed in the opposite direction. for the coast of Africa.

During the firs week of October he crossed the Frectown-Cape Town trade routes and found richer game. Before the month was out the Spee sent fous more victims to the butom: the Neutor Beach, Ashlea, Humsman and Trevanion, all British.

Langsdorff could accommodate the masters of the sunken ships bat the crews were another prublem. There was nus enough roum on board for them. Since must of the sinkings had taken place mare than a thousand miles off the west coast of Africa, Langsdoffl knew that chances were slim of ever navigating the distance in open buats. Refusing to Jeave the British satiors to the mercy of the sca. he packed them on board his ship. Later he transferred them to the Altmarh during one of her scheduled meetings with the Spere.

NTOVEMBER was lean. Lan店sdorff made a wide sweep around the southern tip of Alrica without sighting another ship. Toward the middle of the montlo he turned toward the southeast cuast of Africa in the vicinty of Lourenco Marques. On the fifteenth of the month the Spee's lonkuruts sighted a small British tanker. the Africa Shell, which attempted to make a rash run for the safety of territorial waters where it would be immune from attack. For the first time Langstorff ilireatmed hondshed. He sent a shell plummeting uff her bow and the Alrica Shell came to a stop. Under strenusus luritiok claims that the ship was not a prize of war and German claims that she was. Ithe crew and ufteers were taken off and the Africa Shell sent shuddering to the bottom.

Affer the sinking. leeling his position was increasingly unerure, Langsdorf backracked. entering the South Atlantic.

The munth of Decemher hegan favorally. On the second day the Spee intercepped the Doric Siur. To liring the Brit ish ship to a halt Langedorff fred a shot acruss her how. As the German hattleship made her approach. une of her radio ugheraturs who had been monitoring the Britigh frequency copied down the folluwing signal:

S 20 lo E 615 gunned by battle. ship. Doric Star.
For Langsdarff the message spelted danger. To his signalman be barked: "Tell them not ta transmit by wireless "ir wetill open fire."
The message was sent and the sadioman returned to his station to listen for further transmissions. The Doric Stet remained silent. Laggedorff bit his lip. There was a clance that the message would be picked up ly the British Admiralty. If so. he would have to speed coul of the area.
L.eaning over the bridge. he shmuted. "Embark the British crew." There was a trace of anxicty in his voice for the first time. He called a sharp order tis the turret forward. The Spee's guns swung armind to the Doric Stor. Spears of flame shat out and the British ship trembled as the heavy projectiles ripped through her plating. Slowly she listed, then went down in a boiling sea of foam. Immediately Langsdorff set his ship on a southwewterly course-

In case there were any British warships in the vicinity Langsdorff rigged a dummy funnel mounted on a false fnrward turret. The Nazi ensign was bauled dewn and replaced by a French flap. But with this disguise it wasn't a British warship that he met but anthher merchantman. the Tairoa. This happened only twenty-four hours atter he had holed the Doric Star.

The master of the Tairoa, Captain Starr. want forled by the disguise. He quickly urdered his nperator to send:

Lat 21 drgetees 38 minutes $S$ Long 3 degrens 13 minates It attached by German batheship Admiral Scheer.
Starr guessed the wrong ship but was chase enough for the Bribsiz Admiralty. The Spee was a sister ship of the Scheer.

Langsdorf immediately sent hig warning message to the Tairot not in use her wireless, But the operator. P. J. Cummins, ignured the threat and regueated the signal. He was in the middle of the third transmission when the Graf Spee opened fire with a well-aimed shot from one of her smaller guns that rore into the wireless room. destroying the equipment and wounding several men.

The Spee's fire hated further trangmissions from the British ship. The Tairoa's officers and crew were taken un board the German ship and the merchantman was sunk by gunfire. Langedorff sent for the wireless operator, Cummins, and congratulated him for his bravery in the face of enemy fire. Then be turned to his large chart of the South Allantic and studied the situation.

He bad heen uperating for a little more than three musths and had suak eight British ships, totaling mare than 45,000 tons, without the loss of a single life. Most of his victims had heen hagged along the African trade routes, and he was momentarily tempted to remain a little longer to increase his score. But the risk was now too great. Within the past twenty-four hours his pusitime had lueen repurted twice. If either of the signals had been picked up. the whule British Heet would be out hanting for hins. He could take no more chances in African waters. He changed course in the west and headed for the shipping lanes of the coast of South America.

THREE days later he kept a rendezvous with the Altmark and transferred most of the llititish captives. The next day. still pressing hard on a westerly course. Langedorff converged with the Streonshalh and sank her after embarking her crew. His latest vichim did not transmit a message. so Langedorfilaw ro reasun to change his plans.
His estimate of the situation had been rorrect. The British Admiralty did pick up the signals Prum the Doric Sar and the Taroa. What he did not know was that the British were at that very momest trying to nutguess him.
It was Commodore Harwood, Commandey of the South American Divisian of the British fileet, who was ordered to track down the Spee from Infarmation based on the reports of the sumken merchantmen. Harwoud had under his com-
mand the light craiser fiax, flying his flag. and the heayy cruiser Exeter, carrying six eight-inch guns. At the outbreak of the war his force thad feen increased by a loan frum the New Zealand Navy and another light cruiser. the Achilles, which, like the Ajax, carried six-inch guns. A fourth cruiser, the Cumbertand. was at the time replenishing at the Falkland Islands.
Harwend knew that the Graf Spee could fire a broadside of better than twa lans of stee], while the combined broadsides of his three available cruisers amounted for just a linte more than 3.000 pounds. But on his side was speed. So he sent a meswaye tal his ships in attack at once by day ur night as somit as the enemy was sighted. The big questinn was: Where?
The South Atlantic is a brrad necon. 4.000 miles from the Cape of Gond Hope ta Cape Horn. There was plenty of romm fur a pocket battleship, tu hide in. But Commodare Harwood had a sailer"s in stinct and decided to play a long shot. He convinced himself that the raider. knowing her pusition had twice lreen given away. woxald quickly clear sut uf the area of South Africa and heat for South America.

THFRE were three points the Cerman ship might head for: the Falkland Islands, Rio de Janeiro, or the Fiver Plata. He decided on the last. for the River Plata. with its broad estuary. was like a nautical cormucopia, spilting out a continuous sfream of ships ladea with valuable cargoes if meat and grain.
Having estimated where he might meet the raider, he had to decide when. Harwond figured that his quarry woutd he cruising at her mast economical speed of fifteen knots. If he was right, the Ger man ship would arrive off the approaches to the Plata un the morning of the thirtemth of December. Harwood was nuw ready tu play his hand. He urdered his cruisers to steam for the River Plata.

The morning of the thirteenth was clear and the sun rose a few minutes before six pichock. At this time the Brilish force was streaming in collumn forma-


Death throes of the Gra/ Spee. Ten minutes later ship was underwater. NOVEMBER, 195A
tion on a northerly comrse "f fourteen knots and was approximately 250 miles east of Muntevideo.
In the meantime. Langadorff lad already brouglnt the Gral Spee to within 150 miles of the coast of Brazil without sighting any merchant ships. and was now outbound un a sulthedsterly conarse. crossing the shipping lanes out of the Plata area. At six o"clock he was abmet bwelve miles nuriluwes uf the British foree and was heading directly fram it. A few minutes prassed. Then a lowkut on the Spee's furetup called to the tridge: - Masts sighted tead altead."

Langedorll raced to the loridge, gratubed lis binoculats and fixed his eyes an the horizon to the soulteast. He canght the masts in his glasses. Hy -ix-tern lie was able to make out the ratiline of the ships.
"Looks like a cruiser and thon destruyers." lie said. "We"ll holdel comrse for a little while."
Since the British were ruming at right angles to the bow of the spee. Langstorff helieved that he hat not yet been discovered. Canvinced Ilat the sighted ships were twa destroyers and a cruiser. he reasoned that they must comprise an escort acreen for a convay that was still beluw the lowizon.

At that moment Langedurf had a terrible decisinn to make. If he engaged the enemy warships lie would be viohating his orders, which told him to avoid cintact with enemy naval furces. If he ran away hed he passing up a chance to smash into the heart of an Allied ronwny which he was certain was pushing ahead lazily just out of sight.
"Stand by for actiom," he called. Then he climbed to the foretop, which was to be tis command past during the engagement. At six-fiftem all guns were reported as ready. Three minutes passed. The range elused te ten miles. Langsdorff then shumed his cummand. "Commence firing."
The Sper's eleven-inch yuns sempped in the shock of recuil and a spread of projectiles. weighing 670 juuads apiece. went whistling toward the enemy. Through his glasses Langedorft watched the shells kick up plumes of \$water just short of the British shifs. The German guthe were being retwaded when the Brit-


Caut. Langsdorft read praper, wemt home, put bullet throngh his head.

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ish foree divialed. The Exeter Lurned sharply to the west while the lighter cratisers, Ajax ansl Achilles, which Langedorff still thnught were destroyers. altered their course to the nutthwest and licaded directly for the Spec.

At that moment Langsdorff recognized hiss mistake. "They're all cruisers!" It was tor late. He lad abready rommitted himetf to actim. The British rruisers. he knew. were faster than the Spere. His monly hope was to funisi them off with his sulueriar gums lefore they warked ap ta full speed.
Promptly Langeotorf swang all his guns on the heavier Exeter. Which was approaching the Gra/ Sper now from the southeast. and iymored the two light cruisers, still ten miles away.

At six-twenty. Langstorff, chewing on the end ol a cigar. observed the Exeter upen fire at 19.000 yards. He answered. but ho hits were seored. Within the next fer miantes lonlo the A jax and Achilles. rapidly working up to their full sppede of thisty-one knots, fired a salvo at the German battleship.

Althongh the shefls fell short. T.anges dorlf was now in trouble. The light cruisers, even with their smaller gans. had a trenacadous advanage in speed. Two of thern coukd keeps both of the Spee's turrets busy while the third erniser might close the range emnagh lo grt it at damaging hit.

The Spres's third salvo detontiled thme abuard the Expter. killing the terpedo crew on the starlinard side. wrecking commanications and spraying shards of steel afong the superstracture. Langsdorff watched another salver strike with it fiery larst on one of the Expter's forward turrets. This was followeal hy lwo mare divect hils. Langedorfl thrn lurned his eres to the Aime amd Achilles.

At that moment the battered Exeter fonded low range and laid an eight-inelt sluell in the spers palley. Water lints were severed. Fiodetuffs and eowhing ntensils spilled ont of their lagekers. Tables were torn from hatir deck buhls. Oher shells from the Refer ripped intu the furpedm raum, the fire-cintrol station and the living spaces. l'iece of whirlity whet spaltered ham hititue.

LANGSDORFP Hew his lamets the his 1 lace. Whan la bremphathem away a Ihin trichle af hame tand down hise rlated. Frinw derks. worlt partie= werf Aruy
 dead frum the shatereen combartments: lommeatorll called tor a repmot of the damane Its a tro minuter lat tearmed
 Line ant his unthe wote mill warking.
 gradually mbanged couree to the ruth then datin to the ta- The Exter's stelf were now fallinew wide, Bua al the samr

 bnws to the rarth. At six-thirty, gutseing that the ligha ernisers were trying to sweep arotand his buw. dauradurt slifted ohe" wif hes elever-ingh turrets to them. keeping the whor nite orn the Exeter.

Two minutes after lat oplit his armament the Exerer released her starboard torpedoes intos the broad swelts. rolling out of the sontheast. But long before they had a chance to strike. a sharp-eyed lookout on the Spee's frretop picked up their telltale wake. Langedorff called for a sharp emergency turn to the left. set his thip on a westerly course and comeealeal his mavements with a billowing smoke screen.

THE fresh heaze lahwiny aill of the aputheast carried the smoke wer the Gral Spee like a dark blanket, and for speral mimutes langsdorff loat fouch with the British slips. Riding but of it the German captain saw that the Exeter was now hauling around to the east. It was clear that slte was bringing her port torpednes to hear. and he orilered his gumbery officer to open fipe. The Spper was still on the target. One nf her shells struck the Exeter's forward turret and another exploded inside the ship, start ing a fire, destroying the last of her internal commanications and putting the gyre compass ont ul actiom.
Langedorff watched the -piraling onlumn of black smoke rising slowly from the foreeastle of the Exeter. But she was a figher who wouldn't go duwn. At six-forty-lluree she fired her peri torpedoes. but her aim was bad and the slenter deadly missiles went wide. A few minutes later sloe loweght ber rudder aver sharply th the left and set herself on a course romglaly thatlel to the Speress all the while pumping right-inch sloels at the German batheship frum her two after turets.
The Exride was llen alront six miles an the subth. Through him glases Lallgas dorf sturlied her monements. He saw that she luad already develenerd a marked dis II starhmatel and lise hrew now hat she wouldu"t lre ahle tre remath in the batile. Ha hornes his attemion to the Ajore and fohithes. Eight milus to the eust of the Gral Spee they wore throwinn ap chouds of spray as they harrowed into the swells at their beot spects.


 justed their romese slighlthy wor right and were kerefitur up a romilumen fire of


 high abowe lhe lathle: rrads In ripmot hats me the spe
 the mang" rapietly and the foreman batte-




 shello wry framity thromp the thin arman of the British shipe withont jn-
 Langsidurit delated whelter her shomld take a calculated risk ha turning toward the eraisers in un ethory tu sink them. He decided the risk was tom great. sof for resolved tw hirak off the enqagerment.

Grabling the emalroh telephone he informed the officer-uf-the-deck that he intended to Lose the British cruisers. if possible. by breaking his course frequently and using intermittent smoke screens.
But it was at this same time that Commodore Harwnod decinted that he must cloaf the range al all cost. By seyprlfifteen. Whe crutsery were ondy five and a half miles hehmi the Spee. A minute later the German ship opened with a trembling harrage al heavy shells: and as they whirled loward their target. the Spee let ont a thick. swirling smokr weren and turned her bow to the sumblo.
Spors of water muswomed ap all around the Brilioh ships. The Ajar was straddled three time hy thunderotio sal. wos from the Sper, but nu hits were. scored. The Britislı retaliated and ture anveral leales in the hull of the Cerman ship. Thene were all alkove the waterline, however. and did no serious damare.
At seventwenty-live the siluation bre gan tu change. The Ajax took a direct hit on one of her after tazrets. The shell ripped through the barlsette of the second tarrel and jammed the machinery, nutting all four after gums unt of action. But she still cracked on her upeed. closied the range to four and a half miles and let go a spread of torpethes. They wert well-aimed and wontd have panched their way into the Speres hall, but they broke the purface. were sputted by a looknal. and Langstorff easily turned his :lijp out of their track.

AS 'Tlle' elosest one shutted diwn the starboard side "E ine Spoe. Langwdorit ordered right rudder amb put his stip once more un a westerly courat.
by this time the British craisers were just fane miles to the nurtherat of the Ciatman hatthaship. Suddraly ste Britich xhens Engan to land rejueatedly. glancing off the armored tharets or tearing lonk: in the shinis hail and drek plating.
thon seven-thirty the fox and Achi\%
 headed for the Gral Sper's wake as LangsotoriT. firing salvo afiet salvo. Whatued the liritioh shells. Shusly the cruisers: turmed amationard. And ale thes tumed. a sladl frem the Spere, fying high.



 ing ond an catedy reture away from ther Germant lathteship.

 But him sularididnt law. At alwat sereas

 arrond tos thor right atad lirgall wadow ime lue Grat spat at the exlame limio

 amul the Aehille's to the righe.

Lanmsiduffes ituation was num des perate. He knew that the British cruiscre could cluse the range at will. or crater it if lat phane for lurn aromat and attack. As they followert hime with impunity, just
ontside the maximum tange of his guns. they would he simaling lof fother British units tu close in for the kill. An escape during the niglit was impussible. The German engimeering officer lad already semt up ominens reports hat the Spep's fuel was desperately low. He had only ane chance-1o pusts ahead for the nearest neutral purt. refuet his ship and retura l/t sea. taking what rhances he had to with the light cruisers.

Far the mament. at least. there was we danger. so I.angsdorff lefi his battle station and mate a turur of inspertion. The damage the British gums had inHicted wa- disheartening. The Spep had been punctured in many places by sixand eightinch shells. One farge linle yawned widely at the rolling sea, and up furward several smaller ones let daylight into the forecastle. All the ship's cooking facilities. except one small galley, were innerative. Worst of all. water had ruined much of the ship's fluur.
Even more serious. the Spee had used uip more than half of her eleven-inch ammunition and lad enough for only fifty more salvors And her fuel lanks, because she had raced so bong at full speed, were almost emply. With a feeling of dieep regret. Langsdorff viewed the bodies of his dead: one officer and thirtyfive men.

Langsdurffs only consolation was the fact that his engines had been suared. his guns were stifl working. and the sea wasn't pouring into the bilges. If things remained as they were he'd be able to reach the South American cosath before his fuel ran wut.

He climbed to the bridge again and studied the charts laid out on the navigating table. After a short discussion with several of his offeers. he decided to proint the Spee toward the clusest neutral port. It was Monteviden.
For the next two houre Langedorff stayed on the bridge, watching the pursuing cuisurs. Then. a few minutes after ten o'clock. the Spee's range fimder spied the Achilles appriaching the German ship at a distance of less than thitteen miles, well within the effective range of l.angsdarff:s guns. In answer to this flaunting gesture he wdered his stern lurret to ofpen fire.

The first salvo went wide, but the second plummeted close aboard the British ship. The Achilles wasted nu time in terning around to the cast and jouring nut a dense screen of black smoke. For both Lanysdurf and Harwood the balance was mow stuck.

At aboht eleven "icluck Langsdorff Frolted the suatize of a British merchant -tearter in his plasees. With the two rruiser* lailing him will dugged gersistence, he was in nu pusithon to attempt sinking her. But he gal an islea. Turning tol his signalman. he worden his theseage in sluw syblables:

> To the A jux and Achilles from the Adeatal Crat Spee. Ptense pich top hifeboats of English stoaner.

He hopled the trick might slow the British cruisers just enough to errable him to drop, below the hurian.

But Harwiend didn't fall for the rusem He signaled the Britisll merchantmanshe fraved to lie the S.S. Shakespeareand learned that ste needed poe assistance. This he did wilhum reducing specd. So the chase wem on.

It went on withuat a change for the next eight homes. Then at seven-fifteen, after finishing his evening treal. Langsdarff wert to the bridge. The Ajax had clused the range slightly, so he opened in with two thandering salvos. The shells went wide hut they farced the cruiser to reverse her course and open the range lawont the sting uf the Cierman guns.

BB) EICHT welnok the Graf Sper was jusi sunth of Lobor Island, which restra few miles of the Uruguayan cosst. There the land turns tu the west. shaping itself around the gigantic jaws of the Plata estuary. Less than fifty miles west of Labos, well withis the wide mouth of the river, was a stretch of shoaling six. reen miles long, called the Banco Ingles. At low tide, in cettain spots. it is orly three feet deep. and white-capped break. ers grumble over the graves of submerged wrecks half buried in the sand.
Langsdarfl set his cumese to pass just north of the shoals and head his ship for the apronaches to Muntevideo. At this time Harwool turned his flagship, the Ajax, slighty to the left so he'd pass the Banco Ingles to the south. His course change was calculated tu catch the Spee if she tried to escape by turning behind Itre shoals. In the meantime the Achilles, ordesed to continue the stern chase, frassed between Lobos Island and the seaside resorl of $P_{\text {untit }}$ del Este on the mainland.
Just before mine belock. a few minutes before the stu slipped beluw the horizon, the Graf Spee poured out a smoke screen, turaed for a broadside and fired three ringing salves at the Achilles. The British exuiser returned the fire but neitser ship chalked ttp any hits.
is dlusk fell. the fehilles increased her speed in order fis maintain visual contact with the German battleship. Ayais al aine-thiry, the Spee turned and fired. but all her projectiles fell short.
By ten a'clock the Achilles, still pressitug tu close the range and keep the Spee in sight in the diarkness, was just five miles divern uf the Crerman ship. By then the Spet was passing nurth of the Banco lngles and had adjusted lies course lar the Muntevideo channel fifteen males away. Since Langadorif made no rrablic cuarse rhanges after this. Harnoud knew Hat the Geman caplain had no intention of trying to escape. So at clesen wiolsch. ufter the Grat Sper entered the ctannel. Hanwoud called off the chase and hugan frutroiling offishore.

Finm tris laridge. Langodorff could see Aht Flashte of Eी Cerro. the lighthotise perched on the tofj of the hill west of the aily. To his righl lisy Honteviden like a aliokering biankel wituhed liqhats. Then froun the share al bright searchlipht pieped the darkness. The Spee answered, giving her name and reguesting permiswina w enter prort. In a few min-

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utes the shore station opened its light again and assigned the German battleship an anchorage in the harbor. When this was done Langsdorff sent for one of his officers. Lieutenant Hertzberg. who spoke English well, and instructed hime to) tell the British prisoners that they were in Montewideo and would be released the next day.

It was midnight when the Graf Spere's lutavy anclor chanm rattled through the hawse pipes and hre andor hit into the mud of the harbor.

Shartly after the Spee's arrival, Ifae British tanker Olynthus nosed her way out of the harbir to fuel Commoture Harwood"s crutisers. When their tanks were filled they rontimuel their patrol. setting a death watch on the Spee.

From the moment the German ship artived in Monteviden she was sprilighten by the radia aml press of all cuuntrics. Nuw langsidorff had a new batele in figlt- - a battle of diplomacy, The inh of patching ap the many lowles in the Spee's huli wa- low much for the ship's erew, lt was true hat all hee damage tals above the water lise and in a calm sea the ship's torn hull woulfa't have mattered. But Langstuff's next pery of call would he haine. To get there he wond lave is creep intos the North Atlantic. where wintry stas would puand against his ship's shattered hult.

He needed two weth: for the wolders th chat away the jagged wreckage and cover the shell holen with ateel plate. Sul the Cerman ambassador at Muntevieles, after talking wilh Langsurfit, anked the Uruguayan govermment to let the Nazi shif stay in port for furtern days. Immediately the Rritish and French amhassadore 1 rrotested. remindina Hu* Urus gutanans that the Spee. a helligerent warshin, was entitled to the partection of the hartar for only twenty-finur hours. ascording to international law.

The German ambassadur remoted that the twenty-four-hour limit applied anly to ships that were seawnethy. The Giraf Sper. with gaping hoks along her sides, obumaly did not bit that category.

THE lrugadans selleed their dilemnad very simply. They aponinted a special commission to inventigate the exrent of the Spere's damage. The cummission gave its repurt. Fiffeen holes on the starbeard side. Iwelve in the prost. It ayreed with the German ambassador that the Gref Sper was fut seawarliy al the moment, hat it suggested that she might he made seaworthy within the next seven-ty-two hutars. Further Germum argunent. were of nu avail. On the fifteenth of De: cember Langsilurff gen the woral.

But there was sill a chance. By shoring up the damage with stan timbers and filling his tank, tu catachy. Lanusdorff might still be able to run the gantlet and get to the spen sea. It was a small hope. but at least his ship witaled go down fighting.

Langsdorff was turning this idea nver in his mind as his eycs raveled over the forecastle of his ship. There, in the gray light of evening he saw the thirty-six
 in orderly rows, All hunor guard of young sailers watched over them.

Langedorff was greatly troubled by this lens. He followed the coffina the next morning as they were loaded on as barge. He wathed them as they were brought to the dock. There were several wreaths already waiting. and among them was one from the Britich eatatin- who hat latetw bean prisomers of the Spare. It rearl:

Ta the memory of the brate mon of the sea from their comrmides of the British mercham service.
The cuffins wre losaded un several track wnd laten tu lle North Cemelery, whet they went into a commen grave.
After the mass funteral. Lanyetarff returned on the Spec. Time was ruming out. Only the battered fias and Achilles were standing musidt the harbar. ready to eppise tho mert powerful Germar ship. In all act of de-peralitn. Langrdorff might fight his way ilhrough the British froce. Tla Cumberfand. suw steaning full speed Irwo the Falkland Islande. Couldont possibly arrive oft the Plata pothaty before ine sevembernth of the mund. The aircrafl carriet Ath Roynt ant the battle erniapr Renoten were fal 10 the nurith off Pernambact and wrald have to steam 2.500 sea mile- in get to Montevideo. The british either had tu sink the Giraf Spee or keep her buttled up in the harbor. The plan the Britists alopted was prychalorical.
A falmicated siery was circulated arnams Montevideo that the Cumberland, the Arf Royal and the Renowen had already arrived and were waiting at sta fur the Spere ti leave the: harbsir. Lanyedorff hat ran way of checking the stary. su he swalluwed it. He sent a dispateh tu Berlin. explaining the stualion. Then he went on:

> Close blochade at night. A breakthrough for home hopeless.

The brain- behind the German Butean of Naval Operations was Cummander Wagner. He didn't like the tane ond Langaderff's mewsugh, and he argued Hhat it was impossible for the Arh Royal and the Renon? to be off the Plata River. But Admiral Ottu Scturiewinel, the German Chici ut Naval Staff. Felt hal Latmedorff must have made gertain of his facts before he repurted them.

For a moment the German Naval Hight Command cunsidered the gurstian of intermment. But this idea was rejected becallse the Germans did mal trast Uroplay"s amtinued neutrality in the war.
Langedorfiss eatimate of the situation convinced him that an attempt fot break out intes the upen sea was fored momed. And since internment was vetned loy Berlin. be had unty mate choice: left. 'Whe Speer must be destroyed by his command. As a final precaution. Grand Admiral Raeder drafted a dispateh to Langerdorf. urging him to make the Sper's destructime complete if sentiling the ship seemed inevitable.

In the calm of the eveniug of the sixteenth of December. Captain L.angsdarf sat duwn and wrote a letter to Dr. Lang-
manio. Ite Cifmanambatmadur at Montevideo. advising him of his decision to destroy the Sper. His letter alsu made it clear that he linked his apy fate with that if his ship.
During the afternuon uf olle seventeenth Hans Langedotf 1ransferred his married nfficers and entisted men to the German tanker Turoma, which waw tied up in Muntevidea larlapr. Wialt a few afficers and a handful of young sailers he ordered his slifp to are inderway.
It was twenly minules after six in the evening. The Spee's hroad-fluked anchors were hated in. Her engines began to lurn and she elided slowly wut of the harlor. followed liy the Tacoma, two tug- and a mutor launch. Thusands of Tiruguayans watched the funcral procession from the stwre.
Later. as the British cruisers moved in from seat lar the kill. hap Spee nessed arnund th the west. When Laggedorf had his -hip -ix miles for the smathwest of Buntexiden, well out of the channel. luc ardered her engine-stupped.

$\mathbf{A}^{1}$I ABOU'T half pant eight Camain Langsdarit. grief-stricketn and pale. watched his men carry the warbead of a torperla into the ammunition spaces. A long rull of wire was attached to the charge and then carried above deck. Then it was lowered intu une of the buals standing by. When this was done. Langsdorff sent his officers and crew aver the side. Then he swung limself over the rall and elimbed to the deek of the tug Coloso. chartered by the Germans.
The coil of wire was reeled out. Thw boate mined away from the doumend battleship. At eight-fifty-four. Lunazatorlif presed his nervons fingers In a butam attached to the calle-and it lappenesl. The firsi heasy explosion shuddered in the brwels of the Graf Spee and rumbled like a roll of thmaler acroses the water. Langedurf sabuted his ship, and then turned his buck.
A second mighty explasion shattered the ship, Hinging fre-wearred wreckage across the water. blowing most of her superstructure away and gending huse balls of fame intu the air. Water rusheal intos the opened seame amat gureled Hrough the honeycombed compartments. Her tanks were ruptured, releasing a stream of tuel oil that bled into the seat. bubbled to the arface and caunght tire. In a field of flame the Girfl spee slowiy settled in her shalluw grave. And so she rested, in lessethan thirty feet of water. with smoke and flame swirling about he: decks, and her stack and tower silhnezetted grimly against the darkening sky.
Huars later Langudorff stepped from the lug onta Argentine soil. "[ ans satisfied," he said as be glanced onte mure tu sea. "Iliat I have saved all my men." The next evening he held a meeting with lis oflicers. fursted thent in a circle and shomk their hands. It wan hi- farewell.
On the morning of the twentieth. an aide frund Captain Langedorf dearl. al lallat hale in his forelteal. By this time the fires on hiss ship had long sinew fiurned themselves mut.

Foothall's Richest Faker Continued fram pare t3
"Avswer: The Datte of Setery's bar mud Grim, South Bend. Indiena."
"Otesmyon: What war decurations did yru win? Wliy?"
"Asswer: The American Theentr Ribben. It thas is America. The Vistory Medal. I was on the minning side."
"Questros: When is yure faverite alltele?"
"Asswen: Modesty prohilhits mi" from answering this."
Ratterman is a laylemiaun eyen on the ball field. In the peqame drill. while rival cquaterlacks lansen up in the comsputimal way (i.ce: sluck-walking. tuehuehinar. paw-hrowing) Rallerman carefully rule his hands tugether fur seweral painutes, shaking them and shamly swing. ing them buch anse furth: marches with military stejs up and down the sidelines. feeling for the prother senae of tim-
 down the fiedd--to tanglen hin wriess.
By the time the gane laas hegun. Ratterman las co-mrdinated lis feet. his bands. his right arm and his intellect. Now all he has ten dia is wail to break tutu the lineup.
When he is in the garne. there is atways the devastating mussibility that hin teamunates will lue dereived ho his slecight of hand. During the third-tuarter drive agains San Franciren is $19: 53$ white he was. will the Yanks. Twol Yank substitules hopped off the bencl. exturtiny lafflack George Taliaferro, ul fielth after he had broken intu the clear via a hallernalan hand-uff. At lean that's the way it luaked. The scrulis sat back sadly it ant eneny balfloack nuiled Taliaferrin of a stop Only Taliaferro was without the hall. Ratterman, all by himseif. lifted it trom lehind an cilsow and archeis a twentysard paw lo, his left enti.

$\mathbf{A}^{\top}$TTMES Ralleraman feds called upmo ten -uphement his offensive signals with stiff john of proctical neychashgy. In the buthle, he jokes. curems, ridicules ar deliver fiers pep talks. depending on the down. The sarlage and the seare. Once. at the peak it a formethetarter march when lee was with Buffalo. Raterminn stepred into the hutder doubled aver and scamord the ring of -weaty fatto awaing the simnal. He patused and sared a lack Carquiter. a caviman lineman.
"Carpenter!"
The big tackle blinkel once and thumb his head.
"Carpenter. faire olle uylient man ever saw."
Teama lensinn. stretched tight from the hung drive ug field. lonsened with the laugher, and Buffalu scored an the next play.
Ratterman did ufler things besides play rootball during his tenure a! Buffulto. One day he walked prast the Buffalu Concert Hall; it reminded him of the ten years he had dedicated to pianow practice. Two weeks latet several hundred muste lovers turned upt the hear George
play piann setections with an eiphty-piece symphony urchestra.
The folluwing seasum he found another profitable outlet far his ralente. A radio producer who lueard him on ane of the typical interview jrugrams liked Ratterman": wite. Mer sipned Crorge th a radio and television cubtract.
Ration and telewisim. unforlumately. were mat Futtermani= meat. On une RINgram he dilivered a longe emblutiastic commercial almut the lety The sponsors store naming a rival firm. Ratterman's anmoncing varer anm came In a rather alrupt ant.
In E9f9. the luntryman al Buffata rodect. Hallermass feli himself at ondes with the managomenn user calars and decided to slay wit of [methall that tall and take some law cmunne at Sher Dame.
Among the chats onser- in lath tratueWhen lonked on mis alrcisiom as a waste onf talent was Ted Culdins. thes well on lifs was to sithandering a millimm dollars in prai funthall, Callins, uwner of the New York Yanks. signed lattersan to a three. yar contract at s 80.000 lo rake teltert in 1950. The normal me-gear holdaver clause in profermal montrants prevented haterman froms olasing with the lanks ins 19. But Buffala ofliciate touk cate of Gearge. They siqned lim tu a oneyeser combact withomat a haldoner clamse. it $\$ 23.000$ for the sument which io what Riamermat wat ludding out fir in the first place.
On a whim, lianmman derered the Yanks heefore the 1951 neasith. -ivaning with the Momtral thumpos of olie Canddian Leasulas. He simperl for the same $\$ 20.000$ he would hate receised from the
 partunities Srum the Ahmolles" managenewnt.

Frankly. Ratlertabll wax al has in Canadian foulhatl. The fart that he never comtd run turs well from the gearmorhack stol preverneal him lrobl making mood. Camadian roles call win the guaterback La be somethinir in a tied Grange an well as parser amb hall hander. Ratheman fanit Muntreal in Vormber. al the enripletime nif the Ganalian sea-min. and rejuined the lanks for the lant hatf of the VFL schedule. for an additional $\$ 10.000$. since thets. the Ratterman family has feen sitting prothy. The Ratterman henseHokd now number: line daughtere and nine sim betwien ilat agee of cipho months and seven sears.

OOnly a -n"rt like Haterman ean afforil fina childrell hase days." saye lid Sharkey, a strmis-arm ghard with The Philadelphia Fayte-:
Berwerell stasans: Ratterman kerps fuirly ocengied with his awn husiness in downems Cincinsatio. Ratterman and Complany. Invistnento. Through many miscellaneuns comlacto ant his asm untpredictable charm, Gowreg hat already lualt up an impressive string of cliente.
His holhy these days. lis nhsession. if yeu will, is maps. For lonurs at a time he happily studies them. phating dis. tances. drawing up test itineraries. laugh-

Corcoran boors
3retheonly boors are the only bonts
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## Shrinks Hemorrhoids New Way Without Surgery <br> Science Finds Healing Subtance Thar

Relieves Pain-Shrinks Hemorrhoid,
For the tirst time seience has found a new healinge gubstunce with the astonishing ability to shrink hemurrhaids and to stop bleeding - without surgery.

In case after case, pain was relieved promptly. And, while gently relleving pain, atual reduction (shrinkage) took place.
Must amazing of all-results were so thorough that sufferers made astonishing statements like "Piles have ceaged to be a problem!"
The sectet is a new healing substance (Bio-Dyne itidigcovery of a world-famous research imstitute.

Now this new healing substance is offered in ointment form under the name of Preparation $H$. Abk for it at all drug stores -money back guarantee.
ing at the outd names of small counties and farm towns.

Around the first of May, Ratterman goes into an annual ritual. He tapers off an his drinking by eliminating everything excent for an occasional beer. At home he starts working with a foutball in front of the bedroom mirror. palming it, holding it for slants, spinning with it taking halfand three-cuarter pivots.

In mid-June te beging his own prepractice workouts tor put an edge on his wind and tighten the long muscles that have gone saggy since December. He also plays at least one vigurous set of tennis every day. "It works your legs and huilds

murkily in the wind. There was a keen bite in this September nighs air and he hand put an a cout over shirt and vest.

A hostler carne slowly from the ghom of the stables and took the bay.
"Gruin thim good." he said and turned his back to the wisd to make a cigarette,

The hoskter lingered, observing this tall shape in the lantern's half light. "Travelin" through or stayin" awhite?" he asked.

The stranger licked the edge of paper ant stuek the cylinder in his month. "How far to Hashknife?"
"Theat"s a lig outfit." the hostler answered cautionsly. "The main spread"s about twenty miles me north." $\mathrm{H}_{\mathrm{s}}$ waited. but the mas got a light. the cupped match thane custing shadows on his lean face. glinting on degu-set eyes beneath heavy lurows.

He shook but the match and dropped it. "How far to Bell?"
"About fitteen miles east." There was surprise in the [wotler"s tone. "Which nne?" But the man had turned away.

The hostler watched him cross the street and mount the hoted steps. Fur a moment the tall figure blotted the light from the open doorway. "Another one." he said and took the horse into the stable.

The girl behind the desk gave the newcomer the register to sign and laid a key beside it. "One flight up. Third dour on your left."
"Is that in the front?" He paused in the middle of signing his name. The pen
up the wind." he says. "And besides. I like the game because I can't find too many players who beat me."

The Rattermans occupy a large home in suburban Cincinnati. They play bridge. throw lavish dinner parties and accasimally drive off on long weekend trips south througla the rolling Kentucky landscape. They do not. If they can help it, atternd novies.
"Ann and I have seen one movie in the eight years weve been married." Rattermaty says. "Of course. I have to go fo the ones they stick me with the night before games."

The Browns coaching staff herds the
entire squad to movies every Saturday nigla, Even then Ratterman has been known to make for the nearest exit once the theater darkens and he can get away without loeing seen.

There were many people who wondered how Ratkerman would get along with Coach Paul Brown. who is a strict disciplinarian. So far. he's goten alurep fire. and without losing any of his ununual charm.

Ratterman. of course. would he happier if he were allowed in may a more active role with the Browns. But at a salary of $\$ 15.000$ a year he keeps his complaints to himsell.

## Trail's End

Continued from page 45
looked awkward in his big, work-toughtened hand. and she thouglit swiftly, fur no apparent reason. Lhat a gun wauld fil better lhere.

She shook her luad. "Back."
"Give met a front room." he said. and finthed signing.

She Pusled at the bruskness of tome. but got another key. Her hair was deep hrown. pulled up high on her head. and the light from the hanging oil lamp made thiny hammocks in it. He stared at it, as though remembering something. his long fiat fingers hefting the key his glance so impersonal she could not take offense. His eyes fell tu the arched brows, the eyes brown as the hair, and the curved mouth.
"You'll know me next time," she said. He fushed a little and the present came back into his eyes. "Sorry. .. Is the dining roum open?"
"Not at this time of night. Hul there"s a restaurant down the street."

He nudded. hoisted his war bag to his shoulder and traruped up the steps.

The girl's eyes followed him curiosily in them. There was something about this big quiet mat that was arresting. He was about thirty. and he did not look like the average fromt-loose drifter. There was something vaquely familiar about him. She swing the repister around and read his signature: Den Croyden. Texas. She studited the angular letters, lable smiling. Then, moved lyy sudden impulse, she hurried into the kitchen,

He Ammped his war bag on the foed and stretched his long arms. He hat been traveling sines five that morning. as he had for a lomg sinecession of days. and wearimen was depp-abated in him. But honger was worse. He striphed t" He waist. drank from the pitcher. filled the bow and wathed. He ent ont his razor and shaverl to be rid of the traniness of a twodays' stubble. He combed his hatr and went downstairs.

Sle beckoned to him from the dourway of the dining room when he came into the lobby. "Phat restaurant isn't mach good so I fixed you a steak."
"You didn't have to bother, but secin" that you did, I won't let it go ""s wasle." He smiled for the first time and followed her into the dining room.

She motioned him to a pace al one
side of a long table. went unt and returned with a tray: steak. fried potatues. bread and butter. coftee and a wedge of pie. She sat oprosite him so she could see intrs the tobly and poured herself a cap of coffee. sipping it as she watched him. "Are you staying. or passing through?"
He shrugged withot answering and his indifferent silence irritated her. "I suppose," she said sharply, "jt depend" on if you can hire out your mun."

He laid down his knife and fork and looked at her steadily. "Why do you say that?"
"The country's full of gun slicks" Star added. "I'm Ida Farraway,"

But the name seemed to mean nothing to him. "My brother, Steve, owns Hashknile," she said.

He picked up his fork. "Is Hashknife hirina gun hands?"

She nodded. "Arat so is Bell."
"What are they fighting about?"
"What do they ever fight about?" Her tone was bitter. "Grass and catile."

He chewed silently for a moment. "These two ranches smack up agains: each other?"
"Nu. Shriner"s Lazy $S$ is between. "Hat"s what they're fighting about."
"How about Shriner?"
"He was killed," she said shortly, and left the room.

He fisished eating. laid a hall dollar beside his plate and went intu the lobby. Ida Farraway was busy with accounts. luer brown lead bent over the ledger. He put an elbow on the desk and built a smoke "Yon work late for hired help."

She louked up, a little pucker of concontration between her eyes. "It's my thotel. My father left it to me."

He was silem untit he got tis smoke moing. "Ed Shriner-who killed him?"
"George Talyou, the owner of Bell." Her lip curled. "He shot him down while Shriner's arm was in a sling. . . Why?"
"Tust wondering. Yon didn't finish youtr story." He nodded and went out inter the street and she stared after him into the blackness. There was a puzzle lere; and then it came to her. She hat not used Shrimer's first name.

The windows of the Shamrock threw yellow blobs of light out onto the plank walk. He pushed through the Jatwinge into a long ruom hazy with smoter
and found a place at the bar. The hasrrender puslied ylass and butte to him and he poured a drink and felt its violent shewe run throagh him. He stund there idly. Italf turned. feeling his weariness. Thic place was better than half full, and thlacon smoke. whiskey and the sweaty smell of men made a leavy atmospheres.
A man al the end of the bar picked ap his glass and came down and made a plice fur himself lzeside Groyden. He lonokid a front on the rail and filled hiss glase "1 hear you were askin' how far (a) bellye He was big. witlo wide shoulares and a lulunt. smootl face.
"Nems thayels fan." Croyden said.
"Yon lowhin" fur werk?"
Cruviten uadeded, "If hlue jubts suits-"
The man now gut hath ellowe in the bar and crosed his arme "I'm Art Hindhas, Dutll fureman. Were havin a litte

"Nul if the pay's righte"
"Il": right." Hindus picheal up his plass, "Be out in the morning." He moved back to his olace at the end.

Groyden hat ammler drink and went back tu the hotel. It had theen easy.

Ida Farraway was at the desk when he checked nut in the moming. "Did you sign up?" :lte anked. eyeing his hag. He todded. "Wiilı Bell."
Surnise flared in her eyes. "Bell? I Thought-" She bit huer lip.
"Y 1 un throught what?"
She whruged. "It duesn't matuer." Her inrown eyes. sterady and direct stadien him. "Yus luate a let of emfintence."
"Eramgh," he admitted. studynger lex in return. Sle was a pretty frirl with a crisp frestasess that the heat coulal tom wilt, and this morniner her hair was pulted back intur a cuil a the nape of her neek, giving leer a cleath. chiseled how.
[da tomk his payment and made: an *hay in lier ledger. "I womber what you"ll be like." phe murmured. "when you wet thromgh with Bell."
He could make nothing of theis and it wate an the lip of his tomgue to ask what slue meant. But sle hurned anay und lie picked up, his war lay and went tut.
Jda sat at the simall desk bethind the cosunter after her had yone. She picked up, a pern and hesilated, nibhling the end of the Julder. Wist ilue tiredness fane out of him the seemed younger than last night: be cauldail have lean more than twentysevem or -eight, and despite his blumatess uf spuecle there was a ruality ahout him Ite likid. She tirem a -litel if nute parer to ber and hegan:

Dean Steve:-

TTHE headquarters of Bell was a two story frame huse, amost pretentious tur this place and day. The nutbuildings were of solid lore sume almost new. which showed that George Talyou was planning exparsion. Ari Hindzas was flanding beside the peeled-pule corral talking to atother man when Ben Croyden rode in.

He swany around. cold blue eyes impatient. "You take your own sweet time." "It's mine until I start drawin" pay." Croydera stejped frara the anddle and
watched colar arme into Hindus Face.
The other dian put hiss hand on Hindus" arm. "We want them tough. Art."
"All right." Hindus planted his hauds on his hips and shoved his jaw furward. "Yus"re: drawin" pay from this minute.

This is your thiss. Mr. Georwe Talyou."
Crnyden mudded. hands busy with a ciyarplle. He hall known withent being twhl: T'alyna $=$ uncallnused lands. benchmade lowits and iquality thothing marked him as the onner. He was hig but without his furtmatn: whrk-hardened lirawn. Crablera sized him up as a man of money Whe athelied great importance tal belonginge and pasitian: whe whas hat fed afnill -nall victurits until his siffersteems was preal. It =lowred is the soft lines of his lace and in bis air of assurance.
'liatyou monded. efrolled uver to where Hindus was saldibig up. and said a few words to him. Then he went tuward the hause.

Ilinultas swuan up un hio horee. cromked a finger at Cruyden. and the two rode out of the yard.
"We're usin" Striner"s place fur a line callio," he said as they rude north. "I've gut a cumbe al men there. hut Hash-
 lack "em up,"

IT WAS numbine wher Himbus stupped hiss horse Inefore the shriner slack and swung dawat Ha* raisel a =haut, hat haere W:le no answer. He kicked the dhor nipen and went in. Crorden fullowed. feeling a tichnese prow in lim as low lowked about the twormon shack shee table and clairs. in one rom and. in the wher, twolurnk and a litter uf grar.
"Tlirow yune stufl in luere." Himdus said. "Yiou"ll have to kianck a bemk. l'Jl stich around until thee brys get back." He trumpeil frum the butuse.
Croyden turk a deep breath. This was where lie had horped it wruld happen and lie was lacks ilat ilie wher two hands were mol here.

He stepped anlside and pulled lis gun. "Thurn around!"
Hindus lurned. and ansazement streaked his lace. "What's ihat fer?"
"Untackle yur geun belt!"
A wary anser came intu Art Hindus' byes. He sared at the gun for a moment. then his fingers undid the buckle of liis lielt.
"Thruw it up un tluc perch!" Crnyden ordered.
Hindus lowaved the belt. his face red with anger. "Niom what?"
Cruylen holstered his gun. anbuckled his own belt and toseed it after Itindus'. As be stepped forwarel. arms wide. Croyden hit lims solielly in the face: driyin: lim back. Hindus shork his lread. ducked to take anomer bluw whis furehead. and then they were sluaging with feracious intensity, great, rousuding blows that jarees withen they landed. The fight shifted arnund the hard-packed yard, their boots sending up flurries of dust that turned to gold in the hot sunlight, their breathine deep and heavy. Hindus gut in an overland blow that racked


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WhOLESALE DIE CORP
Boa tat t.alhambra, Collfaria NOVEMBER, 1954

Croyden. He bored in. got hum around the neek and used his weight to pull his head down while he slugged to the face.
Croyden took two of those hammeribe blows before he caught Hindus' hand and held it. He hit Hindus low in the belly, felt the arm loosen about his neek and pulled free, chopping Hindus twice to the side of the face. As Hindus whirled about. Croyden got in a terrihle sledging blow to the stomach., and when the man doubled. drove a knee into his face.

Hindus went down flat on his back. He puthed himself up on his arms. shaking his head, while blood ran from his smashed lips. He lunger to his feet and came in again, the breath whistling in his throar. He got his arms around Croyden and brazght ap tis knee. and when Cruyden twisted away from it. he drove his heel down an the instep. He slashed at the eyes with a thorny thumbmail and put a gash in Cruyden's cheek.

Then a fist caught Hindus full on the nose and the felt the bone go. Another blew took him sulidly on the checkbone, laying it opers and shaking him up. He still fought. but his arms were losing their steam and his lungs were nut big ennugh to hold all the air he needed. Crnyden was steadily drivirng him back.

And now a cold! fear louched Hindus. Croyden was not trying to knock him sut, he was deliberately cutting him up. pounding him around the eyes and the Heshy parts of the face. A kind of panic filled lim. Luat his rubbery legs could not mun and his pride would not let him lie down. It was with almast a sense of relief that he saw a fist coming at his jaw and knew be could not dodge.
On widespread legs, Cruyden sucked in ereal gasps of air. Blood ran down his face: and his shirt was torn half off. He walked slowly to the purch and buckled on his belt. Coming back. he bent over, lifted Hindus' right arm ant pulled it stillty out. He drew his gun. slammed the barrel down acruss the arm, once and yet again. until the bune snapped. A shurdder ran through the unconsciuus man.

Some time later, Hindus hauled himself into the saddle, his right arm in a sling. and peered at Croyden through puffed eyes. "Why did you do it?"

Croyden shock his head. "You figure it out." But he was thinking. I can't kill a man while I'm drawing his pay. "Tell your boss." he said, "that I'm through." and watched Hindus ride slowly off.

He washed at the horse trough. had a smoke. then mounted and leaded west.

At dusk he stopped beside some willows where a stream furnished scanty water. picketed his lurse, got rut his bedroll and in five minules was sleeping as thungh dead.

Ordway was sleepily awake at midmorning when Croyden tied his bay to the rail before the hotel. He came into the lobby and Ida Farraway shoved the register to him, her eyes searching his face.
"I see yout tidid it." Her vaice was calm.
"Did what?" He bent over the register.
"Beat up Arl Hindns and broke his arm. They broughs him in to the stoctor's lami night."
"Sn?" He straightened up. unconsciously truching a pulfiness at his right eye.
"I suppose nuw you"ll kill teurge Talyou fur killing your lurohhur." Ifer wice was so guiet. so matter-of-fact, she might have been discussing the weather.

He stared. "So you knew?"
"It was easy," she said. "I tharught there was sumething familiar abuut you. And it all fits in: Art Hindus beat up your brohther. Etl, while two men held him. then broke his arm with a club." Her eyes examined his bruised face. "I see you gave Ant more of a chance,"
"He had his chance." His voice was grim. "You take it pretty calmly for a girl who was engaged to E.d."

Color came into her cheeks and a fire smoldered in lier brown eyes. "I was not engaged to Ed! I thought a lot of him. but he was cursed with ambition like my brother. Steve. and George Talyou. Expand. expand. More grass and more

cattle. There is never an end to it. Ed was killed because he didn't have the means to hire gur hands like Talyou and Steve. He stretched his luck-and his luck ran out."

His brows came together. "Is it wrong to be ambitious?"
"Yes, when it leads to this senseless brutality and killinge." Her voice was hot. "I wasn't engaged to your drother because lie thought more of grass and cattle than he did of me." She looked at him steadily. "Suppose you kill George Talyou. llave you thought what it will do to you? You've already changed since yes. terday."

SO HAS Arl Hindus. He'll think twice before he takes a club to an mo conscious man."
"You"ll never understand." she said and sighed wondering why she explained so much to this man whom she barely knew. And yet. she did know him from Edi knew him better. prohably. than he knew himself. A feeling of fatility canse over her. He would go the same way as had so mary others. And. once he killed in vengeance, sometling fine in him wond be destroyed. He would never again be the samp man.

She pabhed the key to tim. "I'he same room." She forced a smile. "You"re really Ben Shriner, Where dines the Croyden come from?"
"Middle name." He picked up the key and stoud a mement studying her as he had at their first meting. Then the hoisted the war bag to his shoulder and went upstairs, I wonder, he thought, Lepw she'd feel if it was ker brother that had been killed.

From the window of his ruom he commanded a view of the strees. Across it and at the far end was the liyery stable and feed store. Then came a harness shop, barber's, general store and bulcher shop. On the corner was the Shamrock Saloun.
There was go use in drifting about the country hoping for a chance to catch Geurge Talyur without his crew. Somewhere in this town. he decided, would come the showdown. He pulled his gun. slipped in the sixth cartridge, whirled she cylinder to see that it spun smoothly, holstered it and went downstairs.
"Your jub didn't last long," the hostler said when he brought his horse in.
"Long enough." Croydes said. "Talyou's got a yellow streak up his back like the stripe on a skunk."

An affronted look came into the hostler's eyes. "That's a hell of a thing to say ulout a man!"
"It is." Croyden agreed. "You tell himb about it." This would be an additional goad to lerost Talyou into a fight.

He mede the same remark at the res. taurant where he took his noon meal and at the general store where he bought a shirt. Thereafter he sat on the hoted porch. chair tilted back, his eyes watching the strect frome under down-slanted hat brim. But nothing happened.

He ate his supper at the hotel. had a smoke in the lobby and went to his room.

Fur an hour the watelaed the tazy traffic ontsitle his window and then undressed. Before turning in lie tilted a chair amainst the domr. Top under the kuob, and side his Colt under his pillow.
He lay on his back. fingers laced bueneath his head. White moxntigitht silvered the weathered buildinys across the strete. lila Farraway had said, "I winder what yun'll he like when you finisla will Bell." It had meant mollinge at the tirme. but now in did. Ho was already changest: the juy of living. the laughter and the high spifit: wert wint. In their place were the grimmess. the calewed vipilance that had sarted with the arrival of Old Pete. Ell's only hirenk hand. hack in Texas with
 He sighed and ammured almad. "I will hinish wa this hasimos. Fid. and then anit this Indian pathe and lise like a white тан ауаift,"
But as he drupiush oil to slexsp it was mot El he wur hainkits of.
As he was finishing lapakfasl in olie hotel dining romm, a small Mexican boy dragaed uff a shapeless hat and ducked his heal buside lim. "Señor, two men conse int" town. Señer Talsula and Senor Hindus. Thry are at the Slammuck."
He lowked dawn intu fle bay" hatk face, "Whas setul swlu"
 way."
He gave the luy a coin atal stond ung Feeling a grim oleasure. He eased hix gun in the lowster and weme fulu the tobly.
Ida Farraway gave him lier strained, watchful attentinn antus the desk.
"Thanks for atmblina the bery" lor said.
 him with a small motiens inf lies hamed.
"There is still thane. Yum wan gel your lourse and ride net of tumen.
He prave his heut a -lipht. impatient shake, his thourghe intent on what was to come.
"You and yotar wertyallate". Her waise was hout, "Youd deril wate what it dares or whom it thurts!"
He comidered her pravels. erareling ter the meaninge of lot werreso and mot finding it. "I have traveleel a thousand miles for this," Lu said. allad went aut into the lan glare of manimar.
She wighed and lowhed atrose the laitby to whete sul a man with eges ats hrown as her "wn. "All right Steve," she suild.

THEY knew. He coubl lell by the way pathe stared at hims wilh a kimal if laseination. And as he traveleed along the Degitel walk. the stret altead of him magically cleares. Thais tuwn was whi in the ways of truble: it hatw ila signs. Mest ilizilppeated from chairs and bonehes befure sture froms and preered at him from albeys and docrways as be well lay, A woman ran into the strett, luaf pulling at her face, atad sheplerded her twu children into the luuse. He turned at a sound behind him und saw that the Mrxican boy was folluwing. "Go home," he taid, but the boy grimned and ducked behimd a pust.
IIe stepped of the walk. ansgling across

Ile dast ul the alret in the didection of the Shamruck Saloom.
The sun"s heat struck like a lammer blow througlt this high, thin air that carried the smell uf sage from the: clean. "pen spaces lexyond tuwn. Its brighness put a hot glitter nol everyhing, making slate letween buildinges and under womien awnings seem denser. Anel as lie Walkend he thengle ut this man what lad shot duwn lio- "ripoled limolate withat yiviay him a chance. ald lie fell his anger gruw int" an iron wat al purpori. Here wat the rnatinge her whlatation of weary miles of travel! Hora waz the minment he land lival ant an many times inl liow mind when he dakl leen alone.

He was and fifty fiom [ram Ine sham-
 alley breste it athal mutlenly staplod. "Tllat"s him!" Irt Himdus mial, and ateped back itmo iln whey. The illarer
 ful and aluri.
He laut aren many "if this kiml before, with their homeded eyrs, starnad. aumal. cunning facts. luw -lung guas. As the distance leetwern inem wideneal. he felt

 then load Inew altatked. In bis lumik that was samething a mall would take care if tur himerlf.

A(1) now the dismal knowlenge came to him shat lir mulal never get his Thance al Talym. On liere in the street there was 160 shelter. Wo way to escape the crens lire that whuld come. And the boneer lie waited the willse mallere berame: Drispll loy a liack. despating anger. lie made lii- draw.
Three ghans erawhel almust tugether, and with hue mentad 'atar the Hat, high clack of a rifle. Something lout as fire tomeluel hio righl forearm. The man al shom lie had fired lont double were a thathed wrist and the allor weat down. the bulles in lio mandeder thingiag him hachward.
A whe hish wream emme Fromb be-
 calefully fur a inment, but there was no mate tromble lires. He hatstereal bis ginn and turned. Them the museles of his stumath entracted The bitle Mexican hoy was dawn. she lex doubled under bim. read stuining the bourdwalk.
P'rnple were caming ant into, the street. Tw. men rall lo, die tes and brols swer him. One looked war it Croyden and cursed him. "You liammeal guman!"

A movement at a seomadatory win-
 iny here in full view, at math lexered a ratronge intu lise rithe. A alrange Feeling "1) humbleness came lu Croyiten, Dut for thie uaknuma wh lat come to his aisl he would lie tying in the areed with a loullet thmagh hīm.

He lurterl back the the Slaminek. Hhowd dripped steatily from lise right trand. He riplued lack the sleeve and brouglt it up across his cliest for examination. Cradling it in bis beft hand. he saw it was harilly mare lhau a skial lirrak. althouph bleading badly. Then lif froze,

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## Namb.

Slreq.
City A Zone.
standing absolutely motionless. as Tal you came from the Shamrock.

The owner of Bell stond rooted, stating at his two gunmen. His panicked gaza shuteled to Croyden with a wild dishelief. Then. as his eyes took in the bloody arm still across Croyden's chest, a heart breaking relief came into them. Confidence flowed back like water throngh a pipe. His shoulders went back and lijs chest out.
"I anderstand you're looking for me. Croyden." His woice rans willa regained assurance.

Talyne though be was facing another cyippled man. But Grayder knew him now.

He was an empty bag puffed up with arrugance and concett. There was no bottum to him at all. Aad he wanted him to know the full measure of fear and despair before he died. Ite dropped his arm by his side and then flexed it, opening and shutring his fist.

IM LOOKING for you," he said, and watched the condidence wask gat of Talyou's face.

He stared at Bun Croyden's arm with a leotified fasriatatun. as though living through some evil nightmare. He licked his lips and his eyes fluttered to the people who had scuttled to the walks to be aut of line of fire. There was no hetp here. He hat made his stand hefore the eyes of the town and there was no evasion. ne retreat.
"Make yuur draw," Crayden said amd started fors him. And still Talyous stered as though struck dumbs fear scratching its claw ratarks aloout his eyes and the curners of his lips.

Croyden came steadidy un untij he was directly lefore Talyouz. "I won"t tell you again." he said and slapped him with his left hand.

Talyou's heal jerked back, luat his armes remaired rigidly at his sides.

Croyden slapped him again. left and right. heavy, full-swisuging blows that rocked the man's head and cracked sharply through the breathless sillness; slapped him until blood started from Talyou's nose. And Talyou remained rigid, locked in fear. afraid that rasing his hands woudd liring a hullet from Cruyden's gun.

A wild anger came uphn Croyden.
"Fight, tamn yun!" the crited. and slashed hitu across the muulh with his fist.

The blow carried Talyou back a step. Then, a terrible fear cruwding his eyes, he sank stowly to his knees and stretched out his hatds. A sound bubbled throurgh his broken lips.
Something like a lorg sigh wont up from the watchers on the walk. A man spat in sudden disgust. "He ain't even coyote bait."

Croyden scrubbed a hand across his sweaty face. He reached for his runand stopped, hand on butt. With lutred the spur, he had traveled a thousand miles to kill this man who had killed his brother, and now the drive was gone. Killing would not bring Ed back, nor
hely him. wherever he wase Jt was his own pricte that had demanded it. And nuw lie could not shoot a man who knelt (t) bry for his life., As for Talyou, it would have been better if he had gone down with a gun in his hand.

He let his hand droy and turned away, feeling a desolate emptiness. He took two steps-and a man yelled in warning. He whisled as a gun exploded. Talyou was falling forward upon his face, a gun slipping from his fingers. Frum out the alley came Art Hindus, duis Cult in his left hand.
He came up to Talyou and laoked down upon him. "I ain't ne angel," Hindus said heavily. "lat there's some things the devil himself couldn't stand."
"Thanks," Croyden said.
The listle Mexican buy still lay on the walk where he bad fallens. Ida Farraway looked up from bewide him at Croyden's appraach. "It isn't two bad." she said, "Hut we"d better not move him until the doctor comes." Her eyes studied his lace.

Croyden tumkered down. "I wold ynaz to go hume, son."
"That is true, amizo." The hoy smilet flespite his pait. "But, see. I tuo an now the fighting man. I have the wound."

Cruyden ruffled the hoy's hair and stood up as a browneyed man with a riffe in the crook of his arm strolled over to them.
"My hrother. Steve." lda said.
"You're a handy man with a rifle, Steve." Croyden's hand went out to meet Steve's grip.
"Thank Ida," Steve said and smiled.
Croyden turned to her, his eyes asking their question.
"I cuuldn't help it," she said. "I knew how Ed died, and l knew how George Talyou worked. "But," she added, "I'm glad you didn't kill him."

HE WAS silent, deeply thinking. He had ridden this trail, self-sutticient and alone, seeking to beat out his own diea of justice without let or hindrance, asking no help of any man. And yet, three people-these two and Art Hindus —had, is their separate ways, saved his life. It was a mystery and a wonder. It showok his blind faith in himself: no man could stand entirely alone.

Ida came around to him. She turned back the bullet-torn sleeve and examined his arm with practiced eyes. "It won't even leave a scar." She went back a step and regarded him gravely. "Ben, why didn't you kill him?"

The answer. it seemed, was important. He had known her for but forty-eight hours, but her warmh and her mearness affected him powerfully and he searched his mind, trying to understand the great lift of feeling that filled him. unlocking the tensions until he felt clean and louse and free-rumning again. But he had no words to express what he felt. He shook his kead.
"He just didn"t seem worth killing-"
He stopped, for a smile came to her now and in it he found the answers to many things.

The Invention Cantinued from page 37

Prolessor's invention. and that sooner or later Georges would have had to square him. But I like to think that there was more to it than that.
"The full details of the scheme for exploiting the device are, of course, unknown to me. I gather that Georges had been expansively ploguent--nnt that much eloquence was needed to convince anyone whe lad once experienced ane or huth of his playbacks. The market would be enormous inlimited. The exprot trade alone could put france num laer feet again and wenld wine nut her dollar deficit mpernight. once certain snags had been overcome. Everything Whuld have to br managed chrough sumewhat claudestine chanmels. Fur think of the hubbub from the hypocritical Anglo-Saxons when they discovered just what was being imported into their countries! The Mother's Linion. The Daughters of the American Revulution. The Hunsewives' League and all the religious urganizations would rise as one.
"The lawyers were lonking into the matter very carefully. and as far as could be seen the regulations that still excluded "Tropic uf Capricara" from the mails of the English-speaking conntries could not be applied to this case. for the simple reason that an one had thought of it. But there would be such a shout for new laws that Parliament and Congress would have to do something, so it was best to keep under cover as long as possible.
"In fact. as one of the directors pointed nut. if the recordings were banned. so much the hetter. They could make much more money on a straller output. because the price would promptly soar and all the vigilance of the ctistums officials cmildn't bluck every leak. It would be Prohibition all nver again.
"You will scarcely be surprised to lear that by this time Georges had zome-
what lost interest in the gastronomical angle. It was an interesting but definitely minor possibility of the invention. Indeed. this had been tacitly admitted by the directors as they drew up the articles of association. for they had includes the pleasures of the cuisine among "sthesidiary rights."
"Genrges relurned hame with his head in the clouds and a substantial check in his preket. A charmine fancy hat voruck his imaginatim. He therght of all the truble to which the gramaphone companies had gone so that the world might have the cumplete recordings of the 'Forly-eigh Prelotles atad Pugure' ar the "Nine Symplamies" Well. his new conpany would put mul a complete and definite set of refordings, nerformed hy experts versed in the most esoteric knowledge al East and Wes. How many opas numbers wald be required? Thas. of course, had been a subject of profound debate for some thensands of years. The Hindu textbooks. Georges hat heard. got well into three figures. It would be a most interesting research. combining profit with pleasure in an unexampled manner. .. He had already benun some preliminary studies. using treatises which even in Paris were none ton casy te obtain.
"If you think that while all this was going on. Genrges had neglected his usual interests, you are all tow right. He was working literally night and day, for he had not yet revealed his plans to the Professar and almost everything had to be done when the lat) was closed. One of the interests he negleeted was Yvone.
"Her curiusity had already been aroused. as any girl's would have been. But now she was mure than intrigued; she was distracted. Fur Georges had become so remote and cold. He was no longer in love with her.
"It was a result that might have been anticipated. Publicans have to guard


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atranne flue danger of sampling the it own wares bet pftem-['m sure you dom't. Drew-anil ceatans had fallen intus this seductive lrap. He lad been through that rocarding law many timmes. with s.amembat defilitaling fesults. Morenver. funa lvange was nut lo be compared with the expurjemmed atrd takmed Su-
 sionat varsho Ilotamatear

All that Yoonot knew wat= that
 That was trour smomath, she -mopected that lap had been unfaithfal an lort. And that raines profomal philosentaical gress


Thi- laping France. in ca-r yon harl forgetten. Ile aulonmo was inevitalale. Prov (etaryen! Hp was werhing late ane
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-Thats the trathle witl all vinur

 at the end it thras ant blal thar disenserer
 abmat it. Fur I supprose as uswabl. The apparatus wad destrow?
"Sull ma." replied Purvis. " Apart from
 Has a d1appy mhling, Theve was the


 any arderme puldicily. Beting men of sentiment is watl ab aroll of tosiness. they reatioed that they womlad have la
strure Y vonnés freedtom, "'laty promptly did olis hy playing the recording to fo maira and fo prefet, thas comvincing thens that lle puos girl fuad expertencod irresistilab provecation. A lew shares for the new company elinched the deal. with txpeswinns ai the utmost cordiality an buth sider. I vornee gent her garn liark."


- Hh. Hese things take time. "lowes
 know. It's guite [pessihe that di-trilum tiont lase already commenced thenay fri-vate-1 rry private-channels. Sume of thase duhions little shops allal nofice


"Oí course." salid the Sum fotmanal vnise dismeppettulty. "ssu wouldrit

 lames like ohis. He eramerly heratatod.
 mophed. ".hnd J've just remmomerent -nmething Ilal will cherer you ub, They
 lations and espablish themselves before the inmitahe comgessimal emquiry -atts. They te "pening up a byanclo in Varalia: aplaremtly you ran alill pet away witlo antthing llere." He raved litw wa:
"Ta (ientgrs Dupin," lee sajd stemmo. Sartyr to science. Themember lim wher
 linge-
"Y tes" we all adsked.
"Belty" start sawing now. And sell vane TV sets lof fare the lattem draps nat sif lise market.'


## What's Coming Up for Your Workshop Cemzinuel from pnge th

molnr lu "peratr ans momher of full-aize turls with a change-tiver Ilaal takes just ten emonds formatr. The contuple shon
 systum you eat talt will any whe thal and athl olhe otlure ratuipment later. Tlai-permils- yon lo parchase the bunt needed and mumbl inad tomp firnt.
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 viguted foy passege of atio and difusted
 the smoke problem for iloe muthour claef who likes to bruil his steak- in the slade. At the same firme the labers form a drathage syetem that will channel off rain at the rate nit ten inches all hour.

Est Rich. a neighon uf mine and I
made ilis practical addition to lije lomore in less 1 han four bours. Aetually. all that Wat involved was to set the twortnch antrproting posts install the fascia and fasem Hu buters in flace. Pruper epacing ul the lonvers wats a cinch sines all lult
 num was procially proctrate gising it a fospons finish that was hath athacive and ras-resistant. Es didn"t buther its painf it. Huwever. sediasary honer paint tam be uwed withent a prime tobl.
If you are a "Hi-F゙i" lan, yod van buy rearly-to-assmble eduipment cahbates and waker wolnemes for aproximate It the same prtice! yon wombil pay bur the materiats ulane. The Cabimart kis. For mamplo- atre complatu frem latidware tu


Oue a the nun-t commete of the many furniture kila nost stailable is S Tremat's uphalstered whair. "loher kit. Sur \$30. sulpulits compucted hathwond frames for atmes seal and hack. precut palding. amb springs that rotai no lant-tymu ur wrbling C. [loe smart fahric arrivas fat sut and fully fewed.

The Chris-Crafi Company, in adtition to their boat and trailer kits, have seweral excellent prefabricated gurwahiow kits. These kits of high-grade knoty pine inchate gan-rack faltern. hasges.
serews. word phyge and tasy-fu-Enllow. illustrated instructions far assembly in ahma six hours.

Yua can now also buy a plumbing kir that lets yen install semapermanem cold water service any place yon need it. A flanye along the edge of this flexible piastir tuhing enables you to nail it diyectly tu walle ur wisolwork fire easy piping of water thronghout a honse. With the tulizag you can feed a darkronm. homk-lil basament, garage ar altic sink. It sells for $\$ 5.95$ and remes in fifte-fint fenghs tu standayd t/4-inch pipe threat. and anther fal $3 / 4$-indl watden-luse thread. 'Two types. fras indow and outdoer hise. are available.

Juat before this article was dimisheal. Jerry Ganmen of Reynelts Metals semt me the following wite: "We art making an addibon tour line of Du-lt.Yourself Aluminum te he avallahle ahosut November. It is a new cornivination wiadow charmel that will make interflianging storm sath and screens possible. As in prices. the cost of the materiaks lexclusive of glass! will be about five drollars for a threethy-five-foot operinge"

Another handy metal product ynur locat hardware sture shoult muw have ien mook is an iten called Redi-flods. These suw steel rods come in round. Hat ur angle bars of many sizes. jus right for a hundred and one sepair and consmethon julse from tool stands and benches. shetves and hins lo recreation gear.

Of the new woud products. Mieramord
the wond that comes in rulls-is purhaps the most unique. Only $5 / 1000$ of an inch thick. this finely shavers woud can bee put up like wallpaper with ordinary paste or applied as a decorative veneer to wood, metal, paper and other naterials. Bunded to a thin paper backing. it is flexible, trugh and takes wax, stain, in varnish and other wood finishes. It enmes in ten different woods in $271 / 2$-inclo wide wils from 32 to 328 feet lonar.

Another material that makes wimed finthing easy is Meyercord's Plastic beneer-wood-grain vineer that is applied like a decal. This material has been used commercially for ypars in car interiors. turniture and at the cabinetso of mast radio and TV manulacturers. Available ia Fatr- to six-stulare-fuot shects.
 barsuer printed in culor from phatographic engraving- mi actual wond and matble pieces. To apply. the paper lack is removed ly anaking in water and the verest is cemented to the surlace Wibt a special adtresine. To complete the fols. a grotective and of varnishts shellac w larguer in given la the surface

Before leaving the subject of wand finsotring. I world like lo mention the sand ween recently introblacol by the Carbmonetum Compaby. This mestypur sandpaper is an abrivive-conated mealn re-embling window orreurns. Saucling meidur basses through the openinge. whoch elimimater choegelitand allow ine sand screen II he used axpe amb owel apain. (th lasts from serven to fiflern times longer chan ardillary sandpapar. Since the semern in cuateol on buth sides with sharp durable silictancarthile alma-
sive grain. when rate sidn wears down. the reverse can still be used fur sanding.

Tast Novemher we said that one of the brightest spots ist the advancement of "du-it-yuurself" products was int the field of athesives. The Eorden Comspany has mate twa combilualians in hats fielal. For ease and speed in applying Elrmer's GlueAll. is is packaged in a landy stupere buttle similar to those ued for dendarank. Jugt give the bontle a spupap. amb after the allhesive has set for twenty fo Thity minutes. the ghlarel ulifect is ready for use. The wher Filmer proaduch io an easy-h-hise watreztranf glue. It can be used for laidding or repairing bats, toys. buttone furnilura. He:

- If you plan th furish naff a haspment or workshop, flazt. Hip lack of an adtweive is news. There's a mew ty of platic tile you can put righlı tuwn wer as wour or conerrle thom wifhat utherive or other fastening. Waille-like juckels in the underside creath ablime that helyo hold the tiles durno. and pravide air space for addel insulation. The tiles are alson kept firmly in place lis a slight wroging action between the walla. Annher new Dhar eovering is Rubbine Self-Adluring Tile. Adhesive js applied th the lile dur-
 volves mothing mure than swabhing the flowe with a solvent and lasing the tiles in placis.
Sometines a manufathow will bring in new prodmats Far he ha leat. Ona liat we recently tried out rinit- -ucce-afully is ralled liquid Tila. Avalablate in many colors, it is appliend like paint bat when it dries its surface has a hard. estanictile appearance. Som hnow hom laritle gypuam board is; well. alter applying al calat of this material. I cemldat lareak the buatd with a hammer. It is ideal for basement wall: (iis waterpromit, kitchens and bathroms (it's washaltel and. as I used the teal gallon, For darkitmms.
Nuw to the horae matkel Caten Neoprene gets around the house wr shap to do more jubs liana and onther ingle jorenduet we have seen for a lung time. This versatile material is a liguid symhetio: rubler that is air-winge. You apply it by bush. roller. ar by tifo to atmon any surface where your want a turgh. Hexible coating of rubler. Walerpmofl. it worit chif, rot crach. Wh affectet liy heat no colrd. Leed right froms the can as a potective ofating for banke. pipeso ar any metal surface. Nenprene prevents rusting. Fir coating leaky romets drains, raincoals. bunts, etc.. it is a perfect seal. Handles of twols ased in vectricul wark Geatre moncondactive when chated with it. Thickness is builh up by repeated coats. For you Absosy readers what have badts. Veaprene phom a little sand makes a youd mandip, bowat areck.
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## Daniel Boone's Favorite Shooting Iron

Continued from page 39

when the musket-equipped British troups had advanced to within 200 yards of the breastworks. Many of the dead were shot Hrough the head. Some had two or more holes in their skulls and hundreds of the bodies were literally riddled with sullet holes. This was the first sizahle engapement between the rifle and the smoothbore musker-and the rifle won hands down.

The great day of the Kentucky rifle took place fromi 1760 to about 1820. and it was terly in that perind that is acquired its name. By 1770. there was anentirely new region of exploration west of the Curmberlands all the way tu the Mississip, River. This area was invariably referred to as Kentucky. The exploits and discoverjes of Daniel Bume and his companions sonn became the chief 1upic of conversation among the settlere along the Atlantic Seaboard. Cradually. the long rifle associated with Bome and the uther frumitersmen. Lescame known as the Kentuck rifle.

Nobody will ever know who aellatly marle the frot uf these amazing singleshot flimilnek ritise It was the result of the ideas and erafl-manship of many individual: nwer a lonu perind of ime. But the final development of the Kentucky rifle towk place in wastern Fiennsylvaria. probably in Lancaster. which was Founded in 17lB. "The weaternmos sethement at the time Labcaster was the Endply perint and steppingralf place to the wilderness. And whern you stepped of into the unk themon you needed accurate rithes merely for cope whith everyday life. Baturally, some of the very Lest gurmakers made tracks to the Lancaster area. where Hiey engaged in a booning business.
$13 y 1730$ Ihe Kentucky (some called it the American) rifle had evolved about as much as it ever would. It was a rather weird-looking iustrument with a long barrel of some 44 or 45 inches (sometimes even five feet) for better balance and holding qualities and for more coms plete powder combustion. With the long barrel. Ithe sights could be set farther apart to cut down errors in sighting. To conserve lead. which was scarce and heawy 10 carry, the bore of the new rifle was smaller than that of its European ancestors varying from about .30 -caliber for the squirrel and small-game riftes. to abunt .fiocaliber fur the big-rame and man killers. The majority were from .45-10.50-caliber. Thus, fifty , 45-caliber bullets. against eleven for ad .75 -caliber gun. could be molded from a pound of leau.

The 1 vilical Kentucky rifle steck. with forrarm extending tu lie muzale. usually was carved out of well seavoned maple. althouglt walriut. ajpele ur clerry were also used no mecasion. Linseed oil. sometimes linted red with the native alkanet ront, was heated and rubbed into the wood 10 seal the urain. Odd-mnment polishing with sont from the fireplace and a drop or two of linseed oil on the
palnu of the hand, gave the gun a lnvely firish. The trigger guard, butt plate and forenom tip were fashioned from easy-towork brass; the majority of the Kantuckies also had a brass patch-box inlet set into the righti rear of the butt stock. Late rifles often were highly adorned with brass or silver inlays.

What really fult the Kentucky rifte over was its loading characteristics. Thlo spherical bullet was seated into the bore wrappenl in a lallow-soaked buckskin or linen patch. No one thought to record the name of the nimble-minded fellow who thouglit of this gimmick, but it was the idea that made possible the Kentucky rille. As lhe gun was loaded the greased patch did a fairly clean joh of wiping out the rhick black powider residue of tha previnus shot. If this grime accumnlaled and hardenad it killed the gan's accuracs. The primary function of the greased patch was to prowide a snug easy-lo-loat tit intu the spiral rilling. The riting bit andy intu the pratel so that the fired laialt remained undefnrmed. and spin rapidly for stabilized flight and consistent acr colracy anheard of until that time.

D3 modern standards. the ritualistic: act inf larding was lug slow. but in thor days it was sperd, sometimes life-aving sperd.

First the hammer was put at hatf-cock or safe position. If the bore was dirtw it was swabbed before loading. The worm. a maller than hore-size double corkscrew affair. was secured to the end of the ramrod and wrapped with a hank of greased. unspuin fax fiber called tww. When pustied into the bare this wat turned with the rifing and cleanet the grunves. Clean swabg were fand until all of the fouling was removed.

Next a blast of breath was bluwn thruugh the barmel from the muzale to clear the fash channel between the pan and bore at the barrel breach. With ilie channel clogged, the tlame of the Hint. ignited Rashpan powder cotth not fire the main charge behind the bullet in the baurel. So. the pick and brush came into play and it was cleared.

THE actual loading was an operation. Witl the rifle but! on the ground. in fromb and to the left uf the shooter, and the muzzle in the crisok of the left arm. Se pushed the puwder horn and humtoge bay" furward winlı his right hand and grasped the puwder measnare in the left hand. The inteasure. a small horti thong tied to the seservair horn. had by trial and error been adjusied to hold a powder charge thist wave the hest accuracy for linat individtal gun. With his right hand. the shouter raised the large horn to his lipes pulled the plup or anpper with tis feeth, and filled the meakore lieplacino the phom. he dropped the furn passed the measure lo the right hatni and ponred the powder down the bore.

Next. a well-greased round or setuaze patch was taken from the supply in the
patch bun of the rifle or from the bumt ing bag. and placed squarely across the gull muzzle. $\Lambda$ boll was centered on the patch and started down the hargel with the thumb. One steady stroke of the ramood sealed the palched ball firmly ora the powiler clarge. The rod immediately was replaced in its thimbles under the harrel.

Some shomters customarily made the patch while loading. A large piece of the patching materiat was drawn across the muzze and the ball pushed intr the bore to a pesition just below the muzale opening. A starp belt knife or une from the lunting bag. was used to cut away the excess material. If the rifie was to be fired willin minutes. as in a shmoling match, an ungreased patck, wet with saliva. was often used.

Then cane the priming. With the rifle held across the left arm. the steel frizzen If the lack (which the fint struck to make sparks and fire the gun) was pushed forward and the pan filled with fine. fastlurning powder from a small horn. The frizzen and pan cover was snapped back to keep the priming powder in place and protect it from the weather. The hammer was pulled back to the full-cock pusition. and at last the rifle was ready It be fired.
if you never have fired a fintlock gun. lut are familiar with modern arms, you will the samprised at the comparative glowness uf the Hintlock ignstion. When the trigger is pulled. the distinct eliek al the flint striking the frizzen can be beard befrae the whash of the Iurning priming puwder and the following blast of the main charge as it shans the ball
oul at the mazaic. It is easy to under stand why the rifle had to be lield "sseady as a rock" during this lag time for a sure hit.
The legend is that any youngster who grew up with the lung rifle in hand was sure to becrme a dead shot when reaching manhooch. In areas on the fringe of civilizatian this andoubledly was true. But in larger und odter settlements along the Alantic Cuast. the Kentucky rifle wasn'l evern ustod to any greal extent. These settlers relied more on the smoothhare musket.

Compared to the trade musket, the Kentucky rifle was an expensive precision instrument of super-accuracy. Some speciments cutd his a mat at 200 yards. The musket was lucky to hit a man a! 60 yards. and a! 100 yards the mate thad it mate.
There is very litule available evidence of Kentuck-rifle accuracy in the pinneering days. A lew ohd targets are still intact. hat in mest inatances the ranges at which they were mude went unjecorded. Some specimens show five shots in aboat two ituches at 100 yards. hut I feet certains that the run of the Kaintucks never could shont that well. Alter all, there were nver 600 known American rifle maker: in business before 1840, and not all of these craftsmen maintained quality standards.

Bui the early American settler loved larget shonhing and it was the venter of his sucial aclivity. When a big showt was planned posters were circulated and the hews scattered far and wide. Sumetimes the festivitips would last for several days. and teongle wuald come for miles

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on lurseback, Wayno st their own two frel top participate or watch.
Sbowting distances waried from 20 ks 300 yards. The targets generally were honks of charred wool marked with crnss lines. Pieces of cardloward were used if avalable. The contestants usually fired mily une slon per tanget and scored to, the eross. Grenp shouting was mestly from muzale res. with each shooter firing from three to five shots. The winner was determined by strint measurement. Wooden pegs were inserted in each butlen hole and a piece of curd stretched around the pegs. The marksman wilh the shortest cord won.

For his skill. the winning marksman might receive as prize a "big lat nx" or a "long-barl gun." or bear and wolf traps. powter and lead. kuives, rubes and skins. or even the tead recovered from the lackstop after the matches had ended.

Tarkey shonts were alao very poptalar. The turkey was tied to a stake 200 yards from the firing ponal with the body fully expused, or at 100 yards with the body protected and only the head and neck showing. The slowters paid a stipulated fee fors each shon fired. When a lighty regarded marksman missed with his shont. he lheard about is from his fellow rompetitore and the spectators.
One of the Kentucky rifle's most useful functions came in the hunt for meat. Game was plentiful and varied and the long rifle was ideal for picking animals nff al short range. A drive took place once in the vicinity of Pomfret Castle in southern Pennsylvania in 1760 . Here is what was killed: 4] panthers. 109 wilves. 112 foxes. 114 mountain cats. 17 lilark bear. I white bear, 198 deer. 111 bulfalo. 3 fishers, 1 otter, 12 gluttons. 3 beavers and upwards of 500 smaller animals.
As wonderful as they were fors game. the Kaintucks had definite limitations as a military weapon. For nne thing, it was practically imporsible to secure a bayonet on the long fifte. On several occastons during the Revolutinnary War. General Washingtur urdered riffe regiments tu be re-equinued wish amorathore muskels and baynuets. Not that he didn't appreciate the rille's accuracy: he simply recognized that it was impossible to guickly leach inexpurienced men to handle a precisiun weaphts. Washington's favorite fighting gun was the musket loaded with a boresize hall and half a dozen buckshot.
George Washinginm nay have preferred the musket. but the archives have him making some strange indersements of the Kenlucky ritte. For instance. Wasthingtom is stuphosed to have said that a good markman, firing from rest, could put three out of five shots on a piece of note paper at eighty rods. Now eighty rods is 440 yards. ar almost four and one-half fonthall fields laid end to end. Tack up a piece of notepaper at that distance and try and see it over open rifle sights. You'tl probably go blind. With open sights on the best of our modern sperting rifles, which are the most accurate the world has seen. it is a considerable feat to put three out of five shots on a similar target at 440 yards.

Washington wasn't the only propagandist for the rifle during the Revulu* tion. The press did its share. toul. Fur instance, an excerpt from Duntaps Pronsyhanda Packet of Augus 14. 1775. says. "The riflemen picked off 10 n men in une day, three of whom were field olficers that were reconnotering: one of them was killed at a distance of 250 yards. when anly half his head was seent."
The Pennsylvania Gazette of Augusi 21 in the same year had this interesting item: "A gentleman from the American camp says-last Wednesday sume riflemen. (II) the Charlestown side, shot an wficer of note in the ministerial service. . and also killed three men on board ship at Charlestuwn Ferry, as a distance of a full half a mile.

BRITISH newspapers. citafine al horir country's defuats. had even more breath-breaking tales. The Lomion Chronicle containeal an itern that "ihe provincials used rifles peculiarty adapted to take off the officers of a whole line as it marches to an attack.. and this is the real cause of su many of our brave oticers falling, they being singled out by these murderers. as they appear in the eyes of every thinking man."
Other British newspapers were even mure bloudthirsty. One printed this report: "Othe Americans load their riffe. harrel guns with a ball slit almose in frue guarters, which. when fired out of those guns, breaks in four pieces and generally does greal execution.
"I cannot help mentioning one thing. which seeme to show the hellish disposjtion of the accursed rebels," the account continued. "By parcels of ammunition which were left on the field, their balls were all found to be poisoned."
Stach exaggerations of American hackwouds riflery did a great job in cutting enlistments in the British Army, and had math to do with the purchase of Hessian mercenaries hy Great Britain.

With all this talk of the Kentucky rifle"s amazing accuracy, l decided to find out once and for all juat low it would stack up against a modern syorting rifle-if both were fired under similar conditions by a top shunter.

First 1 lucated a representative Hintluck Kentucky rifle in almost perfect condition. Then I persuaded John Crowley. the United States Small Bore Champinn nf 1953 to shoot the Kaintuck and a Winchester Model 70 , and see which was more accurate.

We lugged the iwn rilles. a atpply of ammo and the necessary paraphernalia for the proper feeding of a Kentucky rifle. to the Blue Trail range. located at East Wallingford, Connecticut. The Blae Trail range incideatally, is une of the finest in the county. It is maintained las the Lyman Gun Sight Corporatan for the use of any shooter who may have a yea to burn a little powder.

Our Kentucky rifle was a vittage 1800. made by H. W. Deeds uf Reading. Peansylvania. If measured $561 / 2$ inclues overall and had a $41 \mathrm{~F} / \mathrm{g}$-inch barrel. 'The stock was full- (Continued on page 901

ARGOAYM MIIIGOIRDER IBEVING GUIDE

## STOP TO SHOP



FOR YEARS, top dog handlers have used this type of bent wire brush for grooming. Ji does the best job, but is too rugged for mony dogs. New brush has layer of foam rubber under wire that cushions it, keaps if from being harsh. \$1 ppd. Warner Producls, Boldwinsville, N,Y.


KNICK-KNACK above is a remarkably autheflie replica of a shrunken head. Made by the happy aborigines of Eruador who know how, it's toshioned from monkey skin, has human hair. 520 ppd. Spencer Gifus, 6 Spencer Bidg. Atlantic City, N. J. (Sarry, no custom orders.)


A SOtID bargain in a wrench, this new adjuslable sleel ratelhel one eliminates mony wranches and sockels, gives direct leverage, extro speed os wranch never leoves nul. $8^{\prime \prime}$ one with $7 / 16-4 / 4^{\prime \prime}$ jaws, 53.95 ; 12 . inchar, $/ 4-13 / 16^{64}$ opening, 57.95 . Jim Albert، Rimmon Rd., Woodbridge, Conn.


NOTHING COLDER inan silling in a duck blind waiting for a llack ta come oyer. A good way 10 keep warm is with this adjustable red lon-e bell that has 2 pockets designed to hold a couple of hand warmers. Bell alone, $\$ 9.95 \mathrm{ppd}$. From Aladdin Labs, 419 S. Gith 51., Minneapolir, Minn.


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# FLY, TIGER 

by Maj. Gen. Claire Chennault




Here, exclusive and unchanged, is the brilliant story of the Flying Tigers-from the pen of the man who led them to victory. Don't miss this exciting story!

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length, with cheekpiece. It had the usual type of double-set triggers. often called hair triggers. The pitch of rilling was one turn in the length of the barrel. Our Winchester was a Standard Model 70 of .270-caliber.
In order that the sights be as nearly equal as possible, the Model 70 was fired using the standard open sights, which gives a sight picture similar to that of the Kentucky. The old rifle had the advantage here-with a sighting radius of 281/2 inches, against $171 / 2$ inches for the Winchester. We picked two fine shonting days. The weather was clear and sunny. with only an eccasional light wind.
To commence action. John Cruwley fired boih rifles at fifty yards. They were fred from rest to eliminate the human element as much as possible. Besides. the carly lung-rifle boys always used a rest if they cuuld manaze it.
Crowley's best group at fifty yards with the Kaintuck measured $21 / \%$ inches between bullet holes farthest apart. His best ul the same distance with the Model 70 measured 9 of an inch. center to center of the holes farthest apart, or 63 of an inch between edges of extreme bullet holes. You can't do much better than that.
At 100 yards the beel fiverebol groups with the Kentucky rifle ran about nine or ten inches. well scattered from shot to shot. Crowley's best grour at 100 yards with the .270 measured a hair over two inches. edge to edge. Crowley was really holding and squeezing and seeing those open sights this day.
As a sort of pièce de résistance, we decided to find out what a comparatively inexperienced shuster could do with the Model 70 in competition with Crowley's best fifty-yard Kentucky rifle group. We talked young Joe Pawelczak. an employe of the Lyman Carpuration into firing the high-power riffe. He was slightly embarrassed by the ordeal and I figured that he might flub the whole works. But he didn't. Firing only one group at fifty yards, the measurement wan $13 / 4$ inches, 3 s of an inch less than Crowley's best with the charcual burner.
This proved pretty conclusively, to the at least, that the run-of-the-mill Model 70 , in .270 -caliber, is more accurate than the best Kentucky rifle that I lad beea able to find.
Actually, the long rifle existed unly a comparatively sthort time as a housenold weapon. The percussion cap was developed slortly before 1810 and gradually hecame available in the more setted portjons of the country. Cap-luck ignition was more convenient than flintluck, so many Kentucky rifles were converted.
By the time the frontier had reached the Mississippi River, a new rifle-really a modification of the Kentucky, but without its classic lines-became pupular and the Kentucky rifle died a natural death. Died, that is, us far as practical use was concerned. It lives big to this day, as an object of beauty and as a conversation piece for the people who still remember the early days and the part the Kentucky rifle played in the winning of our country.

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