

# New Products and Equipment . . .

## Seed Treater

An automatic seed treater model KS-5, for application of Panogen liquid seed disinfectant, is announced by Panogen, Inc.

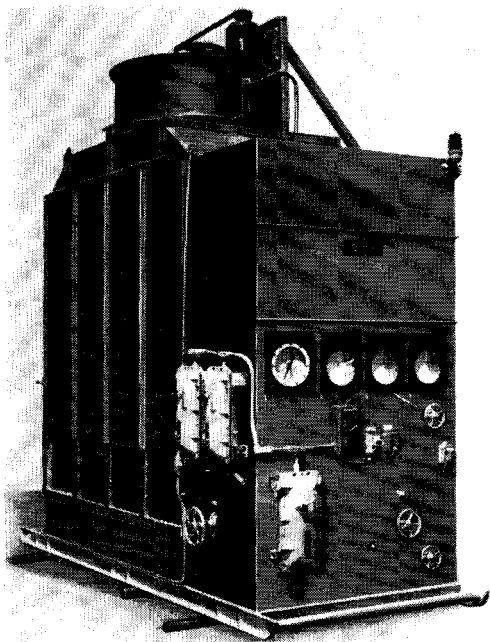
Designed for liquid seed treatment of wheat, oats, barley, flax, cotton, and others, the KS-5 has a roller chain drive and speed reduction gear, which replace the V belts previously used.

It employs a modified "dip" measuring device, a means of measuring the liquid seed disinfectant developed by the company several years ago. The new model can be cleaned by gravity flow without stopping the machine.

Seed treating is completely automatic, eliminating handling by the operator, according to the manufacturer. A centrifugal pump takes the ready-mixed liquid directly from the shipping container, delivering it to the treater for metering and mixing with the seed. The company states that the treater applies chemicals accurately at rates as low as 0.5 oz. per bushel, and handles seed gently to avoid damage, while applying the chemical thoroughly and uniformly.

## Portable Ammonia Converter

Portable ammonia converter built by J. C. Carlile Corp. for Nickel Processing Corp. of Cuba. J. C. Carlile produces a line of portable converters for production of aqueous ammonia wherever desired. The manufacturer claims that efficiency of these units approaches 100% **PE1**



A special slurry adapter is available to convert to slurry treating of beans and corn. The KS-5 is rated at 350 bushels per hour capacity. **PE2**

## Pulp By-Product for Correcting Iron Chlorosis

A chemical by-product of the pulp and paper making process will be marketed next year by Crown Zellerbach Corp. it is announced. To be given the trade name Greenz 26, its use will be as an agricultural mineral to correct iron deficiency in plants.

The inventor is J. P. Bennett, formerly with the University of California at Berkeley. Much of his life's work has been in diagnosing and treating such "illnesses" in plants. He has been working on the development of this new product for the past two years in collaboration with C. Emlen Scott, extension plant pathologist and has thoroughly field-tested it on pears in the area near San Jose, Calif. This year a large number of test plots have been established on pears, peaches, prunes, and other crops in the western U. S.

It will be available for limited commercial use during the 1956 growing season and will be handled by Crown Zellerbach's chemical products division. **PE3**

## Slide Rule Gives Soil Requirements

La Motte Chemical Products Co. offers a slide rule devised to show the lime or alum requirements of various plants grown in various types of soils. The plant group slide is positioned opposite the soil acidity reading and the amount of lime or alum required for the best growing conditions is read directly from the scale.

The rule has separate scales for small areas and for farm operations. **PE4**

## Activated Carbon, Desiccant Preserve Food Package Freshness

Packets of activated carbon and silica gel, developed by Gordon Foods, Inc., to preserve freshness in packaged potato chips, are now being marketed to candy and drug manufacturers.

Called Magic-Paks, they are 2-in. perforated envelopes of cellophane and glassine, which contain a granular mixture of activated carbon and silica gel. Tests indicate that sealing one packet inside a potato chip bag is an effective means of extending freshness and crisp-

ness of the chips for up to two weeks. Gordon Foods has a patent pending on the development.

Gordon Foods is planning to retail Magic-Paks in the near future for use in the refrigerator to reduce odors, in salt shakers and sugar canisters to prevent caking, and in cereal and cracker boxes to maintain crispness and flavor. **PE5**

## Alkanolamine

The research department of Wyandotte Chemicals Corp. announces the availability of Monolene, trade mark for *N*-(2-hydroxypropyl) ethylenediamine. This new, clear, liquid product will be of interest to those concerned with reactions involving primary and secondary amine groups as well as secondary hydroxyl groups. Monolene may have application in the production of insecticides. **PE6**

## Paper Strip Electrophoresis Apparatus

Precision Scientific Co. has redesigned its senior model ionograph, an analytical instrument utilizing electromigration of ions on wet filter paper in simple fractionations, mobility determinations, and reaction site studies.

The ionograph provides a range from 150 to 2000 volts. A new feature is the D.C. filter system for regulating the voltage within 1.7%.

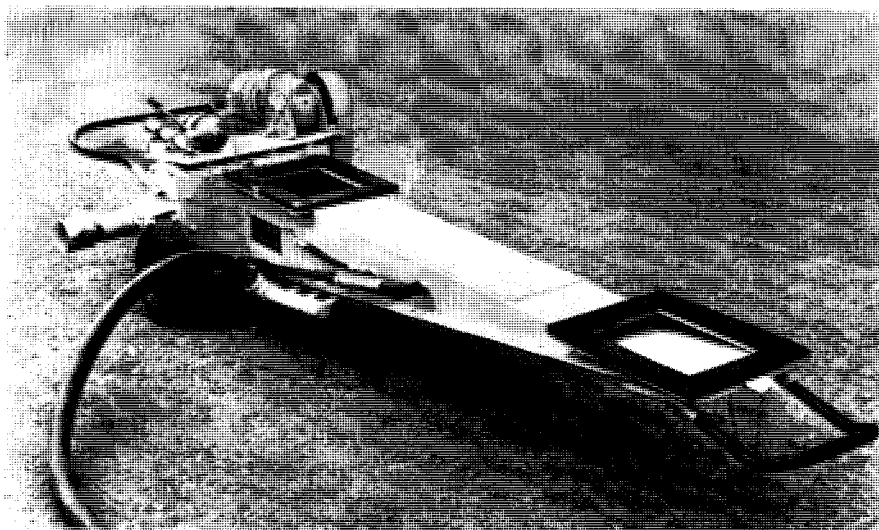
An adjustable filter paper rack with a nonwarping stainless steel frame has been added, holding up to seven strips for simultaneous studies. Temperature control is now achieved by circulating a heated or cooled medium through stainless steel coils. Provision is made for introducing a helium atmosphere over the paper strips. **PE7**

## Twin Spray Atomizing Nozzle

A nozzle with two pneumatic atomizing nozzle setups for spraying in opposite directions is announced by Spraying Systems Co. Both air and liquid inlets are positioned on the top of the nozzle, a feature that is said to reduce costs of installation for many systems. Nozzle is available with standard siphon or pressure setups in brass or stainless steel. **PE8**

## White Oil Formulation for Control of Tobacco Suckers

Esso Standard Oil Co. introduces Bayol N-300, a formulation of white oil and an emulsifying agent to be used against suckers on tobacco plants. Esso reports that laboratory and field tests with the formulation showed it to be ef-



### Handling Bulk Solids

Portable transfer unit developed by Fuller Co. makes it possible for manufacturers without rail sidings to take advantage of bulk materials handling. Unit is designed to be used with the Airslide railroad car, developed by General American Transportation Corp. primarily for transporting flour in bulk. With this unit, flour or other bulk materials can be unloaded from an Airslide car into a bulk van for delivery to user. Flour entering the transfer unit is fluidized by air passing up through a porous membrane in the Airslide and flows by gravity into blow-through feeder. It is then blown through a flexible hose into bulk van **PE11**

fective without damaging the tobacco plant itself.

According to the announcement, farmers have tried to control the suckers by plucking them off by hand, an operation that costs about \$25 an acre. In contrast, the company claims, a single treatment of white oils or white oil emulsions retards sucker growth at a cost of \$5.00 to \$15 an acre.

The technique was originally developed by North Carolina State College. **PE9**

### Separator

A continuous liquid-solid separator, widely used in Europe, is now being manufactured and sold in the U. S. by Merco Centrifugal Co. Called the Mercone, it operates by a combination of centrifugal force and an increasing diameter screen, positively fed.

The unit is said to be able to dewater, to produce a dry cake, to clarify, to segregate pulps, or to accomplish two or more of these steps simultaneously. The unit is fed by gravity at the top. Liquid filtrate is spun through the screen, along which solids are conveyed. A helix conveys the solids along the screen surface, keeping it from blinding. **PE10**

### Paper Bag with Literature Pouch

St. Regis Paper Co. announces a multiwall paper bag feature which makes it possible to enclose printed instructions or sales promotional material in a pouch in the bag. The printed material can be

inserted in the "literature pouch" in the back of the bag and easily removed by the consumer through tearing the plainly marked tab. The pouch makes the literature readily available and ensures that it reaches the consumer in good readable condition. Addition of the literature pouch makes it possible, says St. Regis, to include more detailed material as well as sales promotional literature for the other products of the manufacturer.

Insertion of the literature is a separate operation which can be performed in the St. Regis plant, or in the customers' plants if open mouth bags are used. **PE12**

### Automatic Titrator

E. H. Sargent announces an automatic potentiometric titration instrument which determines the end point automatically and actuates a buret valve automatically at the point. The instrument is based on the second derivative method of Malmstadt (*Analytical Chemistry*, August 1954, page 1348).

Applied to common types of oxidation, reduction, acidimetric, and alkalimetric titration, this instrument is said by Sargent to exceed any present method or equipment in accuracy, precision, speed, and simplicity in the hands of technicians. It may also be used in research investigating new reactions. A recorded outlet is furnished so that second derivatives may be recorded during titrations.

The instrument shuts off the buret at the end point and determines the point inherently, requiring no preselection of voltage or predetermination of the proper point for shut off, according to the manufacturers. **PE13**

### Elemental Boron

Pacific Coast Borax Co. reports it is producing elemental boron on a pilot plant scale. Two grades are available, a low grade of 90 to 92% purity and a high grade of 95 to 97% purity. Volume quantities of 2000 lb. or more are offered, as are sample and test quantities. **PE14**

Use...

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