

No. 676,728.

Patented June 18, 1901.

J. O. SCHMITT & E. E. WEBSTER.

FILLET CUTTING MACHINE.

(Application filed Oct. 20, 1900.)

(No Model.)

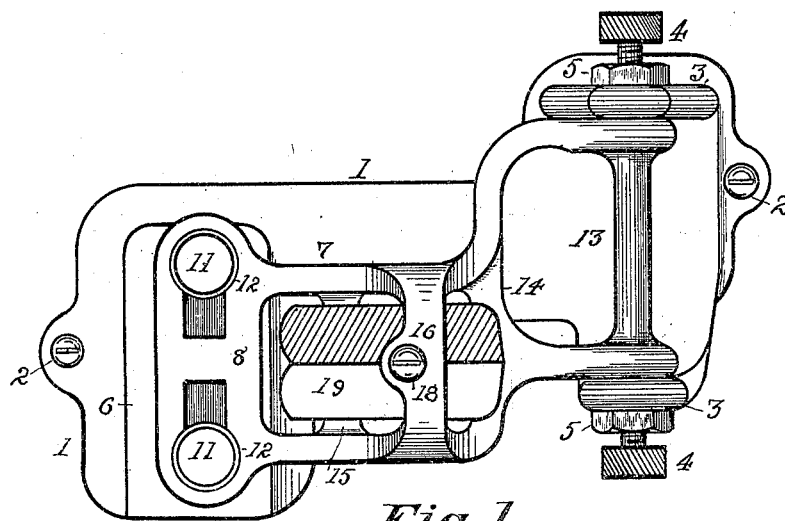


Fig. 1.

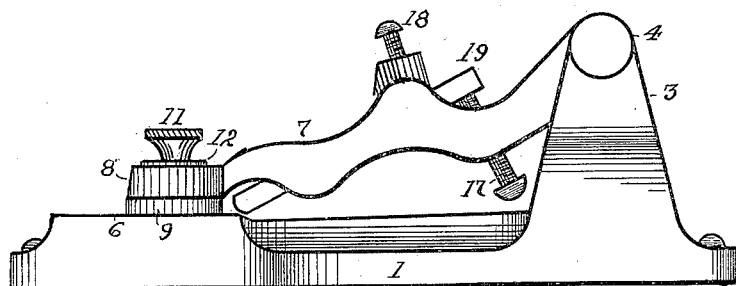


Fig. 2.

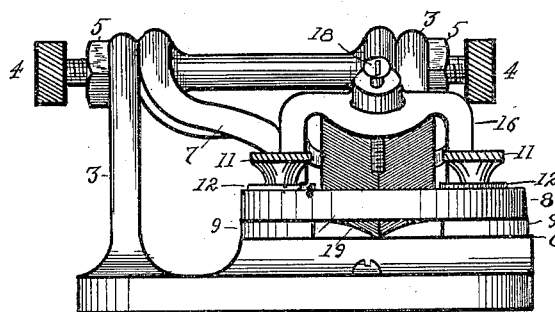


Fig. 3.

Witnesses:  
Bessie Crook.  
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Inventors:  
John O. Schmitt,  
Elmer E. Webster,  
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# UNITED STATES PATENT OFFICE.

JOHN O. SCHMITT AND ELMER E. WEBSTER, OF AKRON, OHIO, ASSIGNORS  
OF ONE-THIRD TO FRANCIS H. SMITH, OF SAME PLACE.

## FILLET-CUTTING MACHINE.

SPECIFICATION forming part of Letters Patent No. 676,728, dated June 18, 1901.

Application filed October 20, 1900. Serial No. 33,718. (No model.)

*To all whom it may concern:*

Be it known that we, JOHN O. SCHMITT and ELMER E. WEBSTER, citizens of the United States, residing at Akron, in the county of Summit and State of Ohio, have invented a certain new and useful Improvement in Fillet-Cutting Machines, of which the following is a specification.

Our invention has relation to improvements in machines for cutting that class of fillets composed of leather substantially triangular in outline and used for rounding the inner angles of wood patterns for metallic castings.

The object of our invention is to produce a new and efficient machine for rapidly and accurately cutting those fillets in which the knife shall be capable of being raised from the platform over which the leather strip runs to permit of the easy and rapid introduction of the strip, in which the knife shall be detachable to permit of the substitution of one having a different angle at its cutting-surface and for sharpening when needed, which shall have adjustable gages to guide and conform to different widths of strips, and in which the knife-arm bearings shall be adjustable to move it accurately to position and to compensate for wear.

To the aforesaid object our invention consists in the peculiar and novel construction, arrangement, and combination of parts hereinafter described and then specifically pointed out in the claims, reference being had to the accompanying drawings, forming a part of this specification.

In the accompanying drawings, in which similar reference-numerals indicate like parts in the different views, Figure 1 is a plan; Fig. 2, a side elevation, and Fig. 3 a front elevation looking from the left of Fig. 2.

Referring to the figures, 1 is a metallic base of irregular outline, as shown, provided with screw-holes 2 2 to permit of its being attached to a table or bench. At the back of this base arise two oppositely-disposed posts 3 3, having opposite screw-threaded openings in their tops in which are fitted two pivot-screws 4 4, with inner conical ends, and each provided with a jam-nut 5 for securing them against loosening. At the front of the frame and integral therewith is a small platform 6, with

its face smoothly planed and on which the leather strips slide in cutting. Pivotaly mounted between the screws 4 is an arm 7, having at the free end a cross-bar 8, slotted vertically at each side of the center and adapted when swung down to rest substantially centrally above the platform 6. Beneath the cross-bar 8 are oppositely-disposed guides 9, having bosses that enter and slide in the slots in the cross-bar 8, these bosses and guides having vertical screw-threaded openings in which run thumb-screws 11, having washers 12, that bear on the upper face of the cross-bar 8. By this arrangement these guides are longitudinally adjustable to adapt them to the width of the strips to be cut.

The arm 7 is made in skeleton form, having side pieces connected at the front by the before-mentioned cross-bar 8 and at the back between the pivots 4 by an integral rod 13 and intermediately two cross-bars 14 15, the latter bent downward in the center to form a rest for the knife, and between these and curved upward a cross-bar 16. Through the bars 14 and 16 are screw-threaded openings in which mesh screws 17 18, respectively. Resting on the bars 14 15 and under the bar 16 is the knife 19, which is in cross-section in form of a flattened V, the two sides curved upward slightly to give the desired shape to the fillet, and with its front edge sharpened and resting directly back of the platform 6, with the point of the V normally slightly below the surface of that platform.

The machine is secured to a firm table or bench, and in operation, the guides 9 being adjusted to the desired width, the arm and knife are raised and the end of a strip of leather passed from the front over the platform 6 until its end can be grasped by the hand or pliers. The knife is then swung down and the strip drawn from the front back against the edge of the knife, which cuts the desired fillet. To enable the strip of leather to be thus drawn, the platform 6 and knife 19 are offset to one side, so that they may extend over the edge of the table or bench.

We claim as our invention—

1. An improved fillet-cutter embodying a bed, having a platform for the strip to be cut, guides to regulate the direction of the strip,

a swinging knife-carrying arm arranged to rest above and adjacent to said platform and means for adjusting the pivots of said arm, substantially as shown and described.

5 2. An improved fillet-cutter embodying a bed, having a platform for the strip to be cut, a swinging arm arranged to rest adjacent to said platform, adjustable guides connected with said arm to regulate the direction of said  
10 strip, and a V-shaped knife adjustably mounted in said arm arranged to rest adjacent to said platform and adapted to engage and cut a strip passing thereover, substantially as shown and described.

15 3. An improved fillet-cutter having a bed with an offset platform for the passage of the strip to be cut, a swinging arm pivotally

mounted on said bed with its free end offset to rest in alinement with the offset portion of said bed, and provided with adjustable 20 guides for the strip to be cut, and a knife detachably mounted in said arm and arranged to engage and cut said strip in its passage over said platform substantially as shown and described.

25 In testimony that we claim the above we hereunto set our hands in the presence of two subscribing witnesses.

JOHN O. SCHMITT.  
ELMER E. WEBSTER.

In presence of—

C. P. HUMPHREY,  
C. E. HUMPHREY.