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J. O. SCHMITT.
FILLET CUTTER.
APPLICATION FILED APR. 26, 1909.

Patented Mar. 14, 1911.

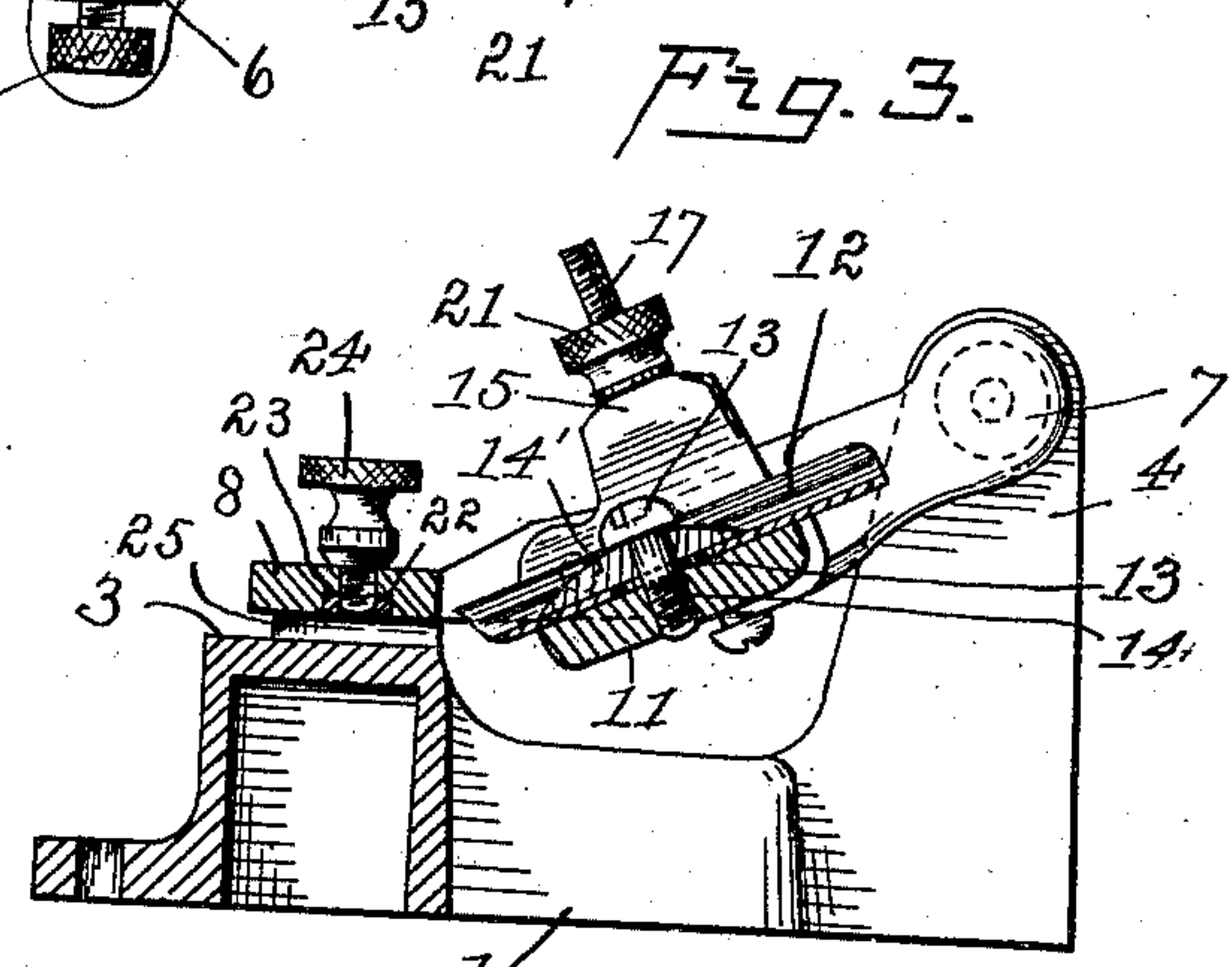
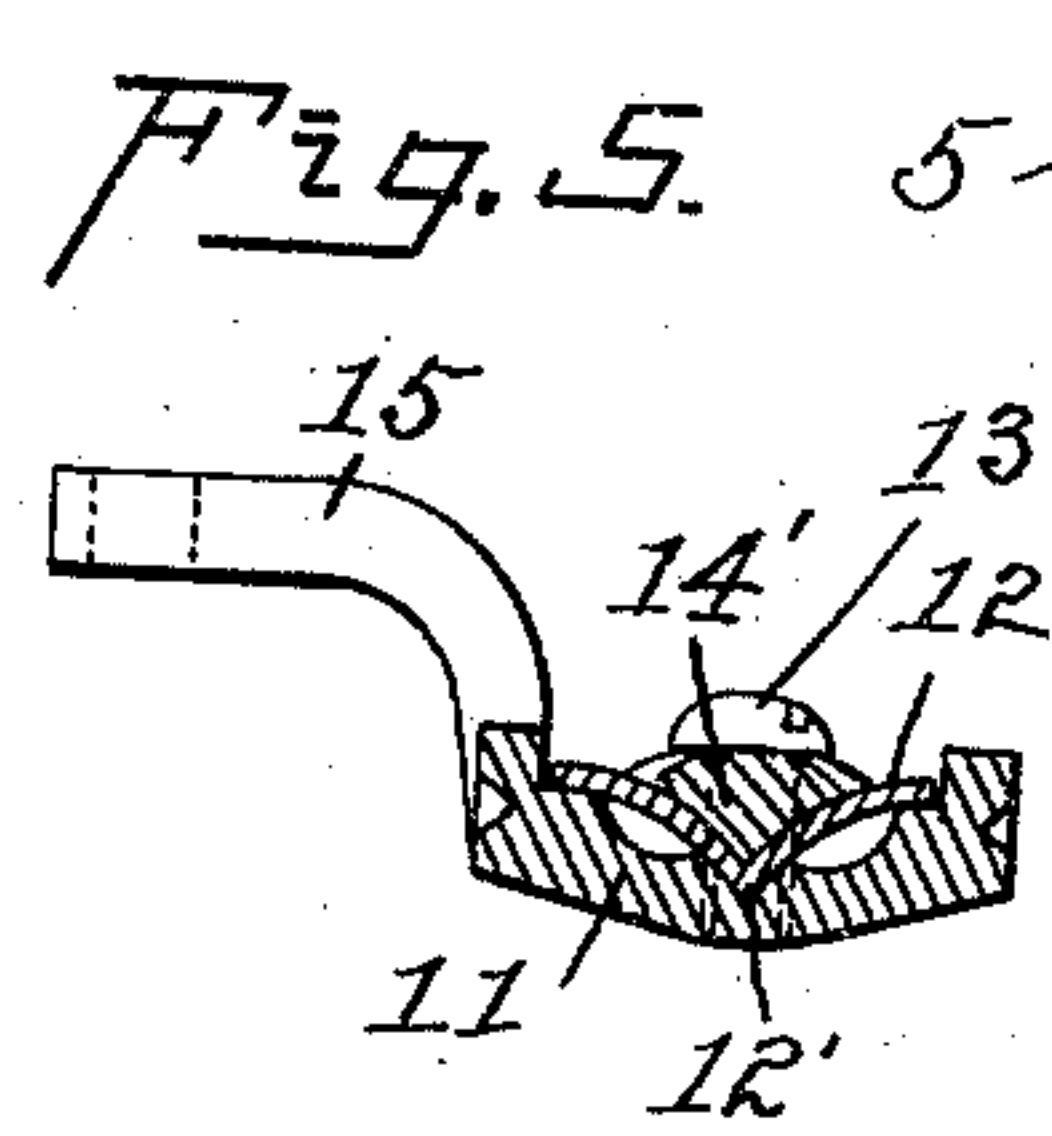
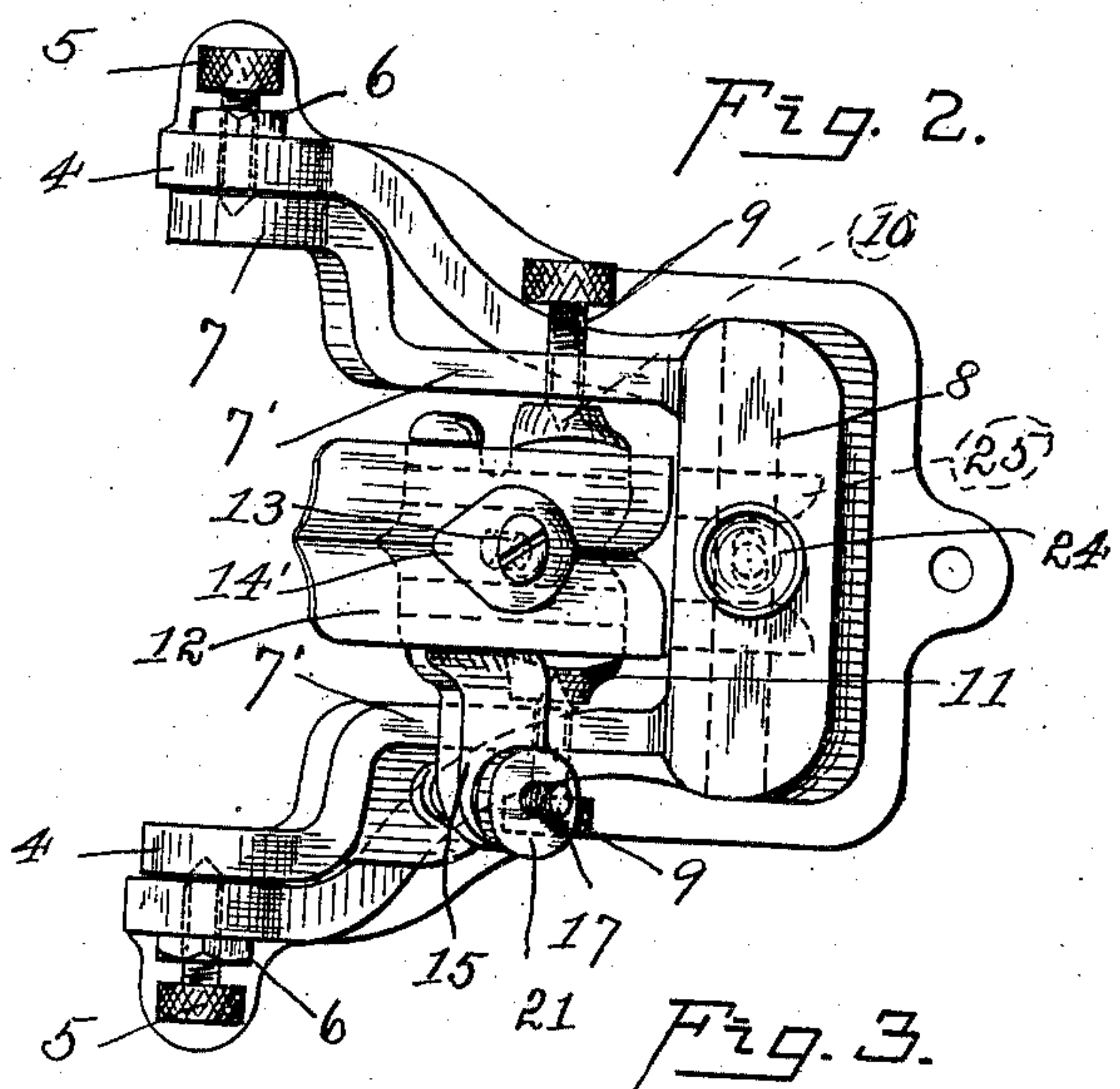
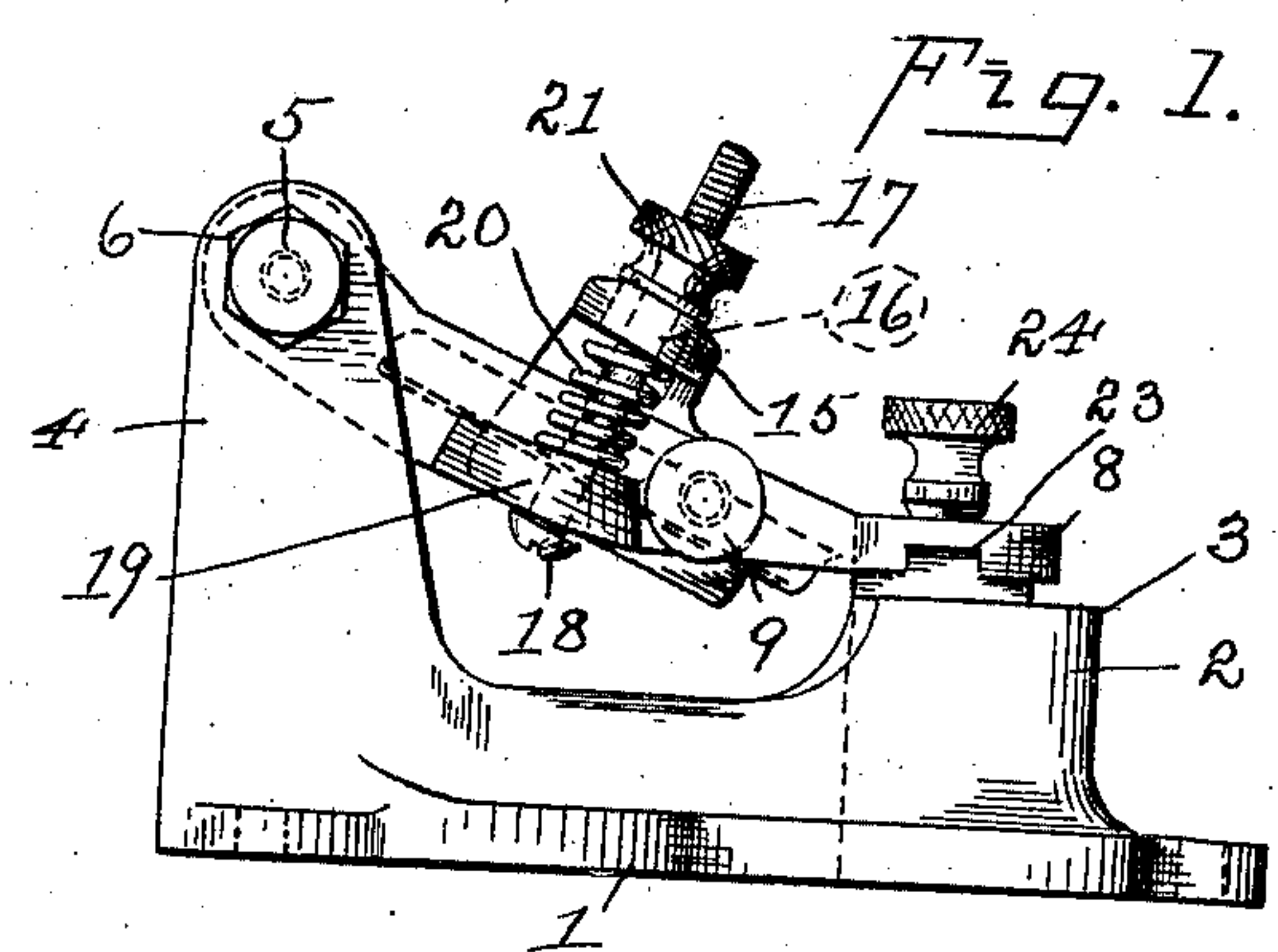
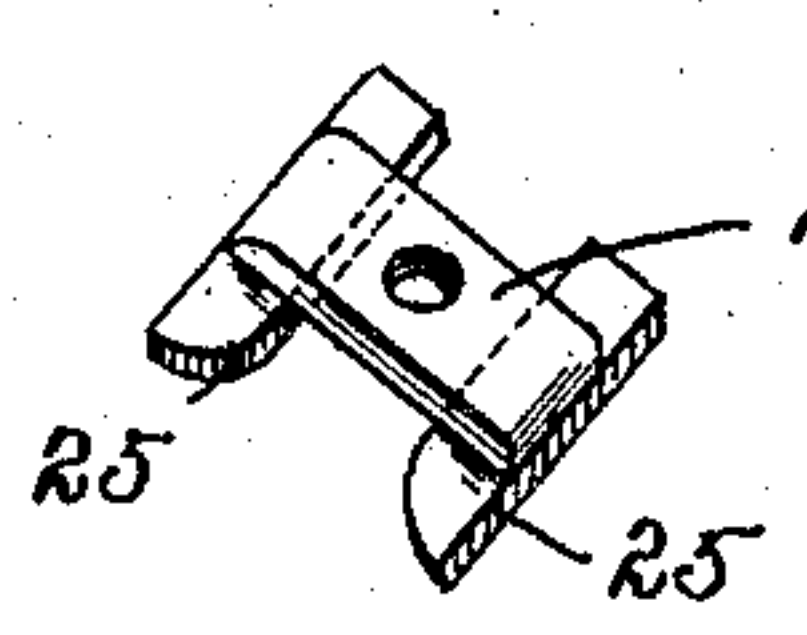


Fig 4.



Witnesses:
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UNITED STATES PATENT OFFICE.

JOHN O. SCHMITT, OF CLEVELAND, OHIO.

FILLET-CUTTER.

986,507.

Specification of Letters Patent. Patented Mar. 14, 1911.

Application filed April 26, 1909. Serial No. 492,353.

To all whom it may concern:

Be it known that I, JOHN O. SCHMITT, a citizen of the United States, residing at Cleveland, in the county of Cuyahoga and State of Ohio, have invented certain new and useful Improvements in Fillet-Cutters, of which the following is a specification.

This invention relates to improvements in fillet cutters and is especially designed for producing fillet of uniform size and shape and is simple in operation and construction whereby the device may readily be used by any one possessing the necessary knowledge of the size and shape of fillet.

More specifically the invention relates to a suitable base having thereon a suitable bed plate and suitable brackets supporting a cutter carrier which is arranged to swing in the brackets and carries a cutter blade and a suitable guiding member which coöperates with the bed or face in holding the fillet blank in proper position as it is operated upon by the blade or knife.

The invention may be further briefly summarized as consisting in the construction and combinations of parts hereinafter set forth in the following description, drawings and claims.

Referring to the drawings Figure 1 represents a side elevation of the device; Fig. 2 is a top plan view; Fig. 3 a vertical longitudinal section; Fig. 4 is a detail view and perspective of one of the guiding members; and Fig. 5 is a sectional view of the blade support.

In carrying out the invention any preferred form and construction of parts may be employed, but I have shown one construction in the drawings which is very effective in operation, and in such embodiment 1 represents the base provided with a raised portion 2 having a bed plate 3 upon the top thereof. The base 1 is further provided at the back with a pair of upwardly extending brackets 4 in which the blade carrier is swiveled. Threaded in the upper ends of these brackets are suitable pivot screws 5 having check nuts 6 thereon for holding them in any adjusted position. Swiveled upon the ends of these screws 5 are arms 7 of a cutter carrier 8 which extends over the bed plate 3. These arms have portions 7' extending parallel with each other and provided with screws 9 having bearing points 10 projecting inward toward the center. Pivoted upon these points 10 is a blade sup-

porting member 11 which is adapted to receive the blade 12 which is of the form shown in Fig. 5 having lateral extensions and the central rib 12'. This blade is substantially the same shape in cross section as the curved portions of the fillet. This blade is provided with a suitable opening 13 for receiving a screw 14 which is threaded into the support 11 and bears against a block 14' fitting the face of the blade. The blade is also sharpened at its lower edge as shown in Fig. 3 so that it will cut its way through the fillet blank. The blade support 11 has an upwardly and laterally extending arm 15 which is provided with an opening 16, shown in dotted lines in Fig. 1, for the reception of the shank 17 of a screw 18 which passes through an ear 19 secured to the carrier. A spring 20 is interposed between this ear 19 and the arm 15 and normally tends to hold the latter against a nut 21 which may be adjusted upon the shank 17 of the screw. This adjustment is for varying the angularity of the blade with respect to the bed plate and also for varying its position relative thereto, so that the size of fillet may be varied according to the desire of the operator.

The fillet is preferably cut from strips of leather of suitable widths, and these widths are guided to the knife by means of a guiding member 22 which fits into a suitable recess 23 in the carrier and is held in place by means of a clamping screw 24. This guiding member is provided with suitable guiding blocks 25 which are adapted to extend down and rest upon the bed plate 3 and serve to guide the fillet blank to the knife. These guiding members may be made in various sizes to accommodate different widths of fillet blanks.

After the operator has decided upon the width of fillet he wishes and has procured a strip of leather or fillet blank of the proper width he places it upon the bed plate 3 and between the guiding blocks 25 of the guiding member with the end of the strip extending below the lower cutting edge of the blade. He then presses down upon the carrier until the blade cuts into the blank after which he need only pull upon the strip of leather or blank when the knife will cut from the leather strip a fillet of a size which is in accordance with the adjustment of the cutting edge of the blade relative to the face 3.

Having described my invention, I claim:—

1. In a fillet cutting machine, in combination, a base, a bed plate carried thereby, a carrier swiveled in the base and provided with suitable guides engaging the bed plate, a blade support swiveled in said carrier, a blade mounted in said support, and means for adjusting said blade support upon its pivot.
2. In a fillet cutter, in combination, a base, a bed plate carried by said base, a carrier swiveled in said base and having a portion adapted for engagement with the bed plate, a blade support swiveled in said carrier, a blade mounted in said support, means for holding said support yieldingly in a position to bring the edge of the blade into operative position, and suitable guides mounted upon the carrier and resting upon said plate.
3. In a fillet cutting machine, in combination, a base, a bed plate carried by said base, a carrier swiveled in said base, fillet blank guides secured to the carrier and resting upon said bed plate, a blade support swiveled in said carrier, a blade carried thereby, suitable adjusting means between said blade support and said carrier, and yielding means between said blade support and said carrier whereby the blade is yieldingly held in proper position relative to the bed plate and relative to the guides secured to the carrier.
4. In a fillet cutter, in combination, a base, a bed plate carried thereby, brackets extending from said bed plate, a carrier swiveled in said brackets and having a portion extending to the bed plate, a fillet blank guiding device secured to the carrier and normally resting upon the bed plate,

a blade support swiveled in said carrier and provided with an arm having an opening therein, a bolt passing through a suitable opening in the carrier and through the opening in said arm, an adjusting nut upon said bolt, and a spring between said arm and the carrier.

5. In a fillet cutter, in combination, a base, a bed plate carried thereby, brackets extending from said bed plate, a carrier swiveled to said brackets and having a portion extending to the bed plate, a member secured to said carrier and provided with guiding blocks adapted to guide the fillet blank to the blade, a blade support swiveled in said carrier and provided with an arm having an opening therein, a bolt passing through a suitable opening in the carrier and through the opening in said arm, an adjusting nut upon said bolt, and a spring between said arm and the carrier.

6. In a fillet cutting machine, in combination, a base, a bed plate carried thereby, a carrier swiveled in said base and having a portion adapted to swing down upon said bed plate, said portion being provided with a transverse groove, a guiding block engaging in said groove, a clamping screw passing through the carrier and threaded into said guiding block and adapted to hold the same in place, a fillet blank guide mounted upon the carrier and engaging said bed plate, and a blade suitably mounted in the carrier.

In testimony whereof I affix my signature in presence of two witnesses.

JOHN O. SCHMITT.

Witnesses:

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B. W. BROCKETT.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."