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SEWING MACHINE HEMMER.
APPLICATION FILED APR. 3, 1907.

Fig. 1.

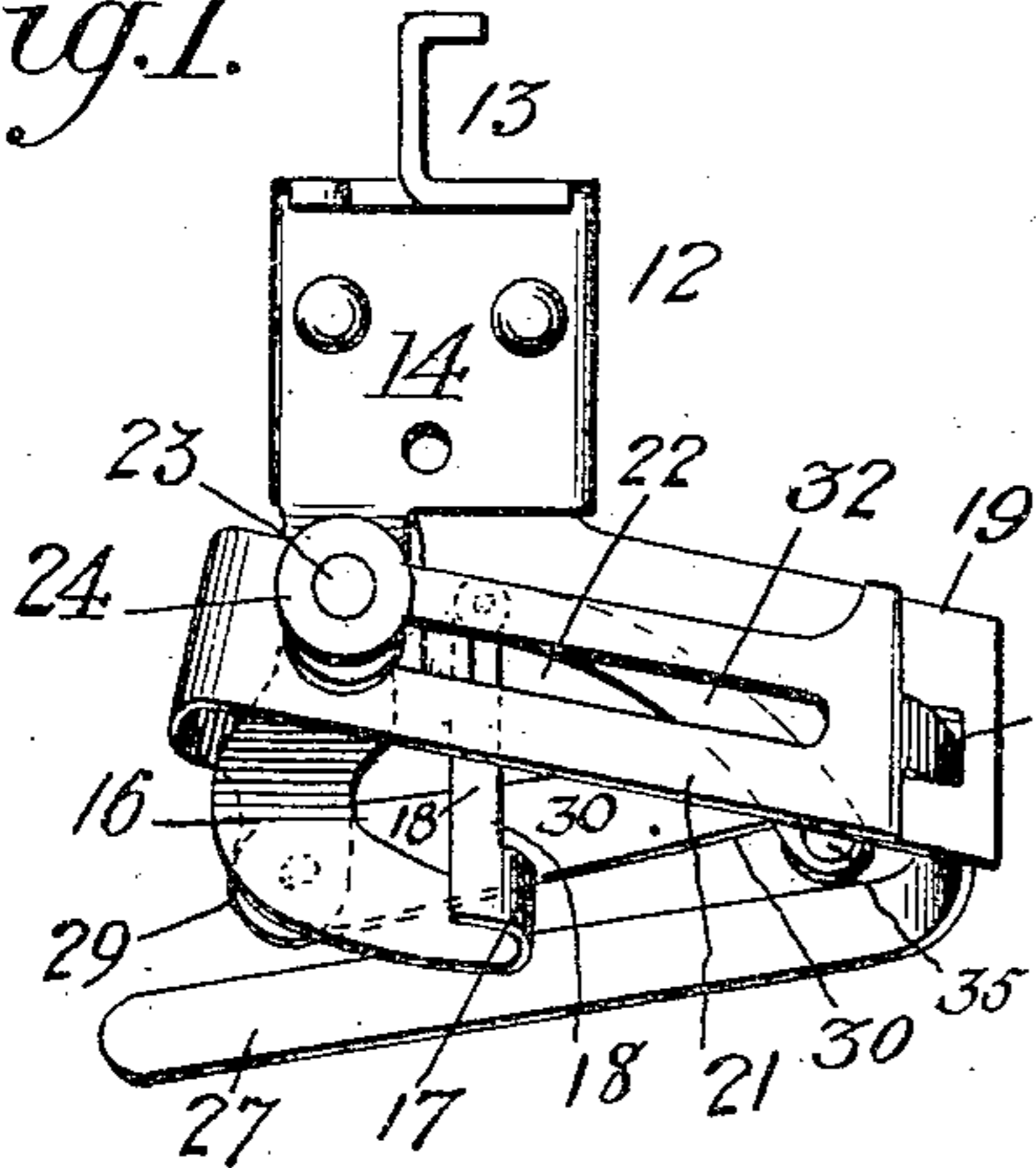


Fig. 2.

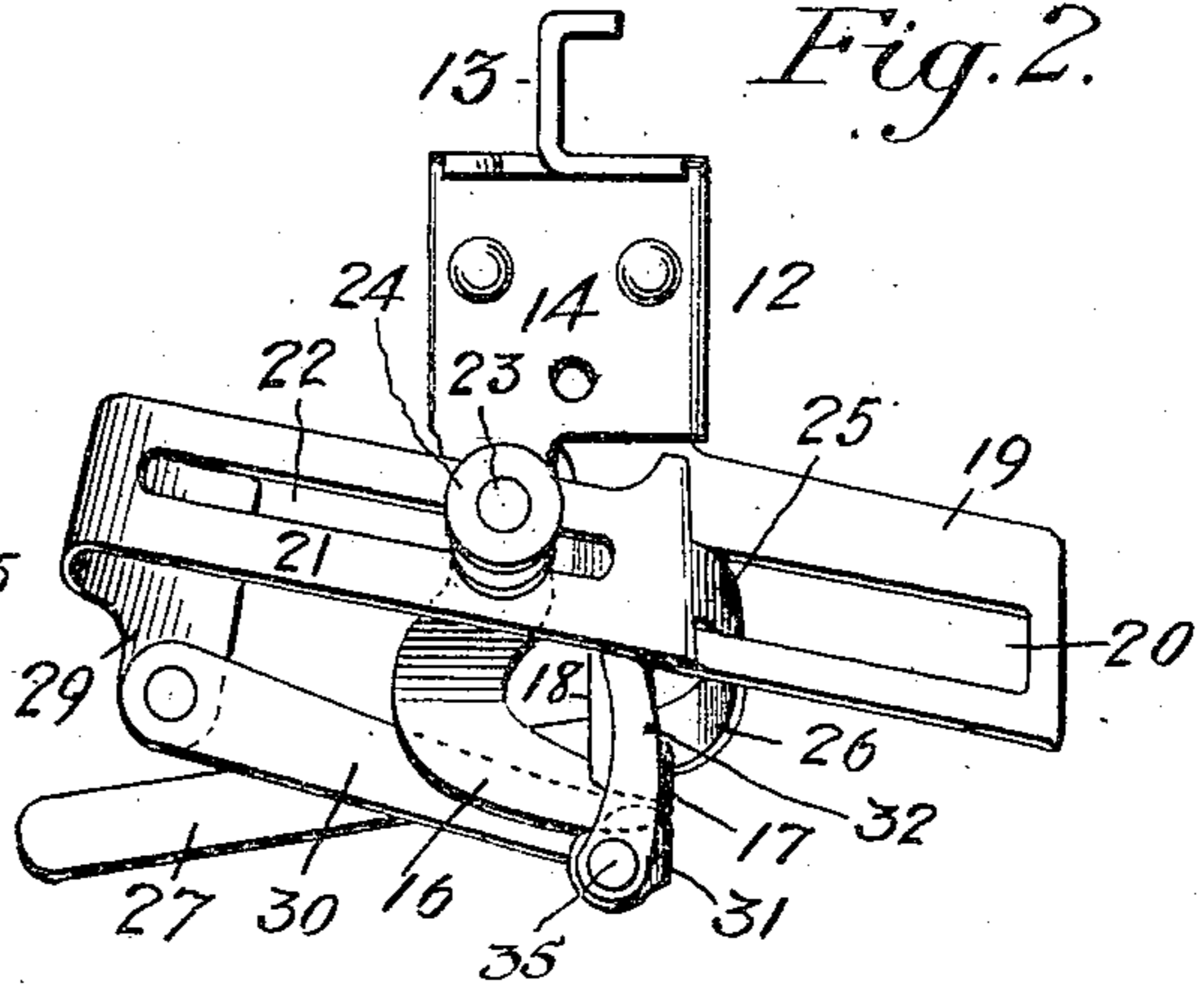


Fig. 3.

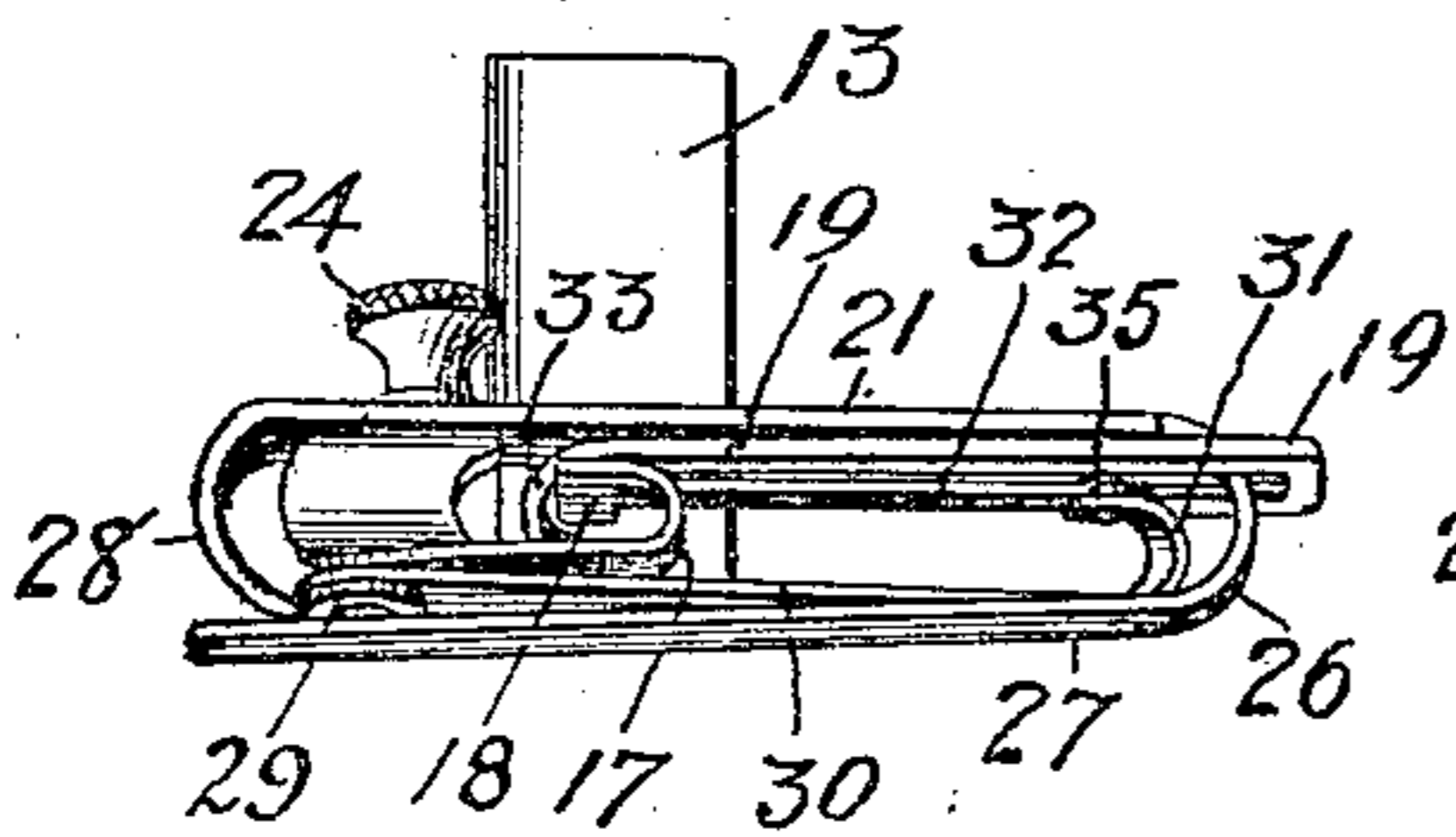


Fig. 4.

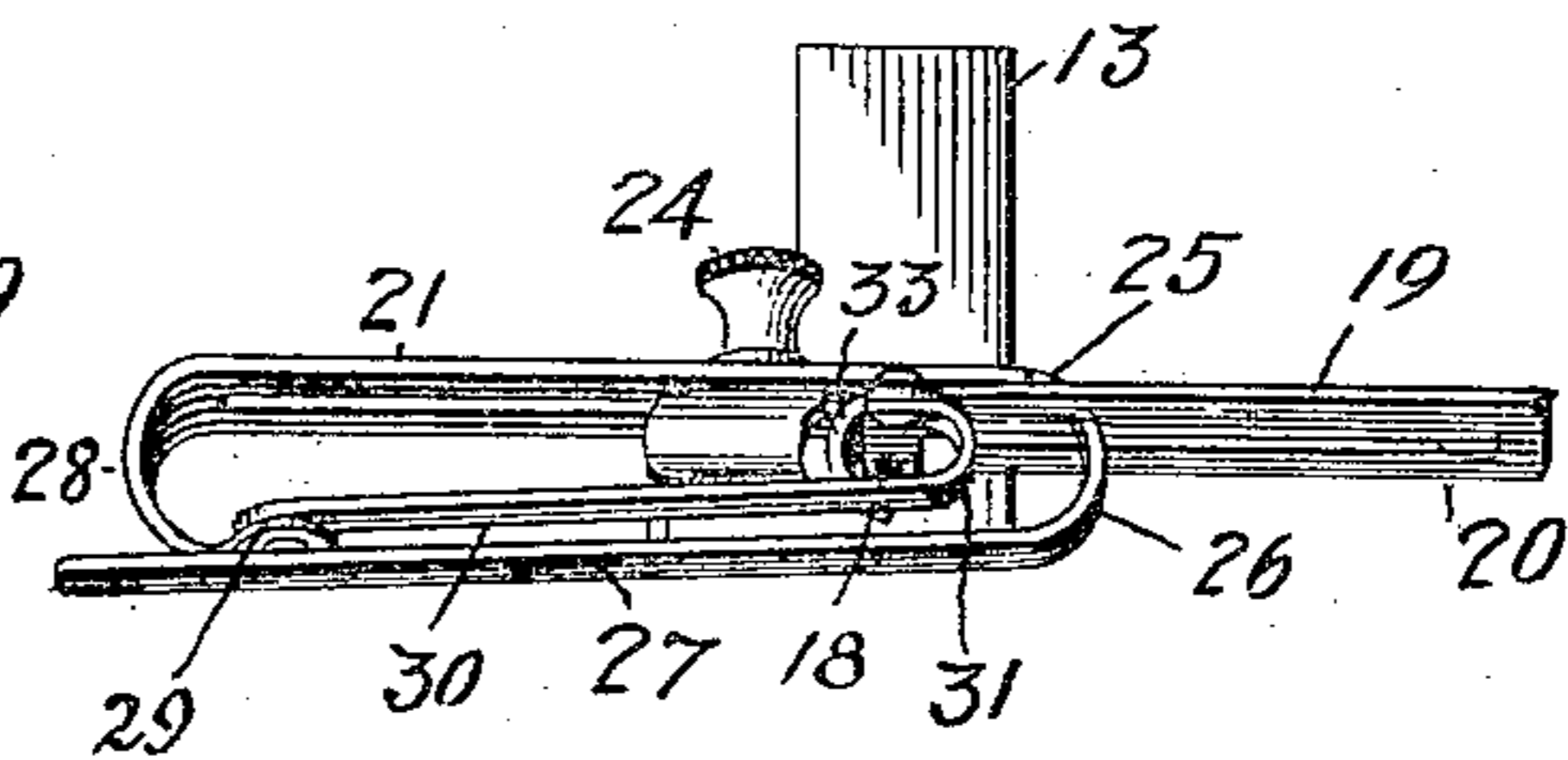


Fig. 5.

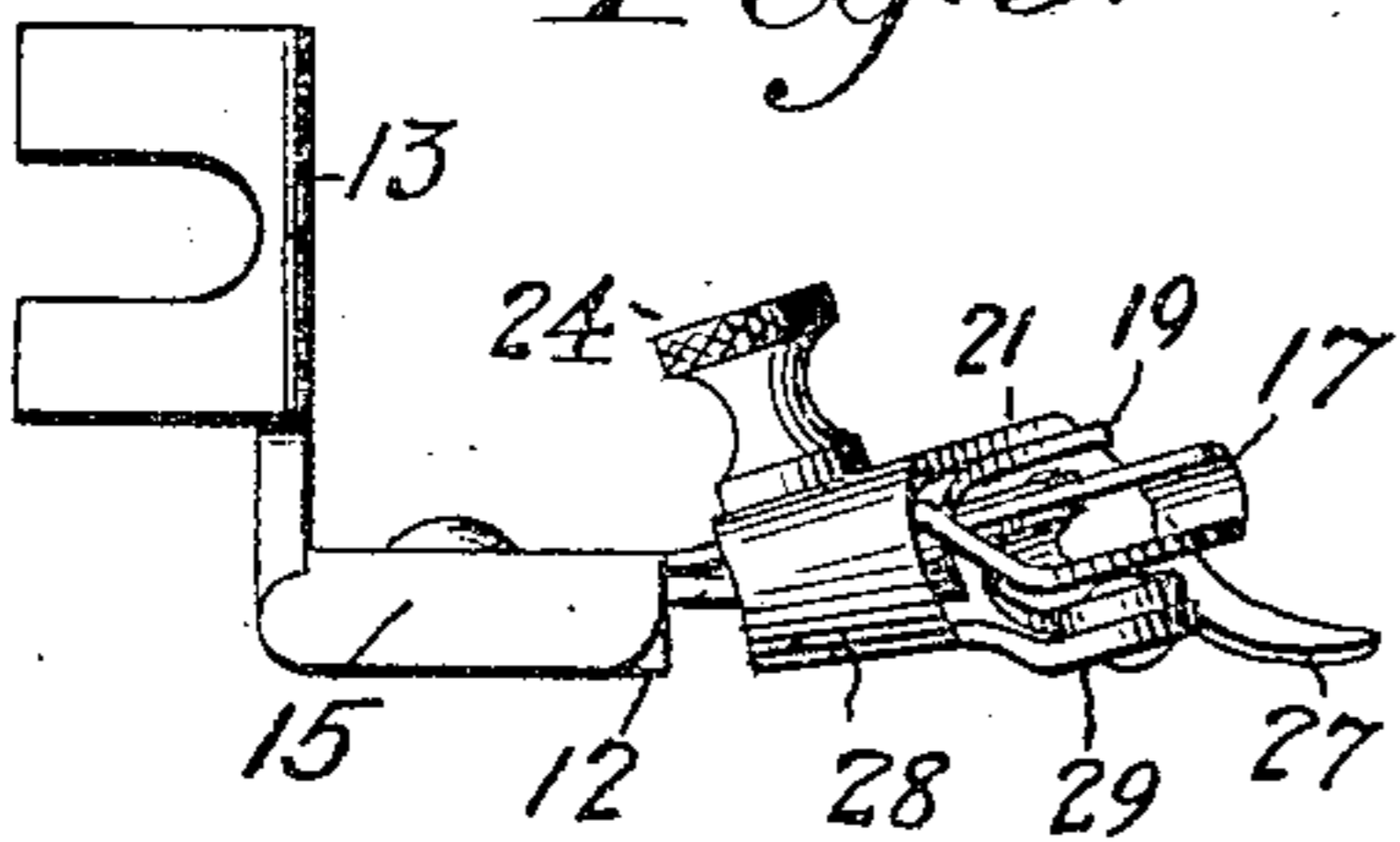
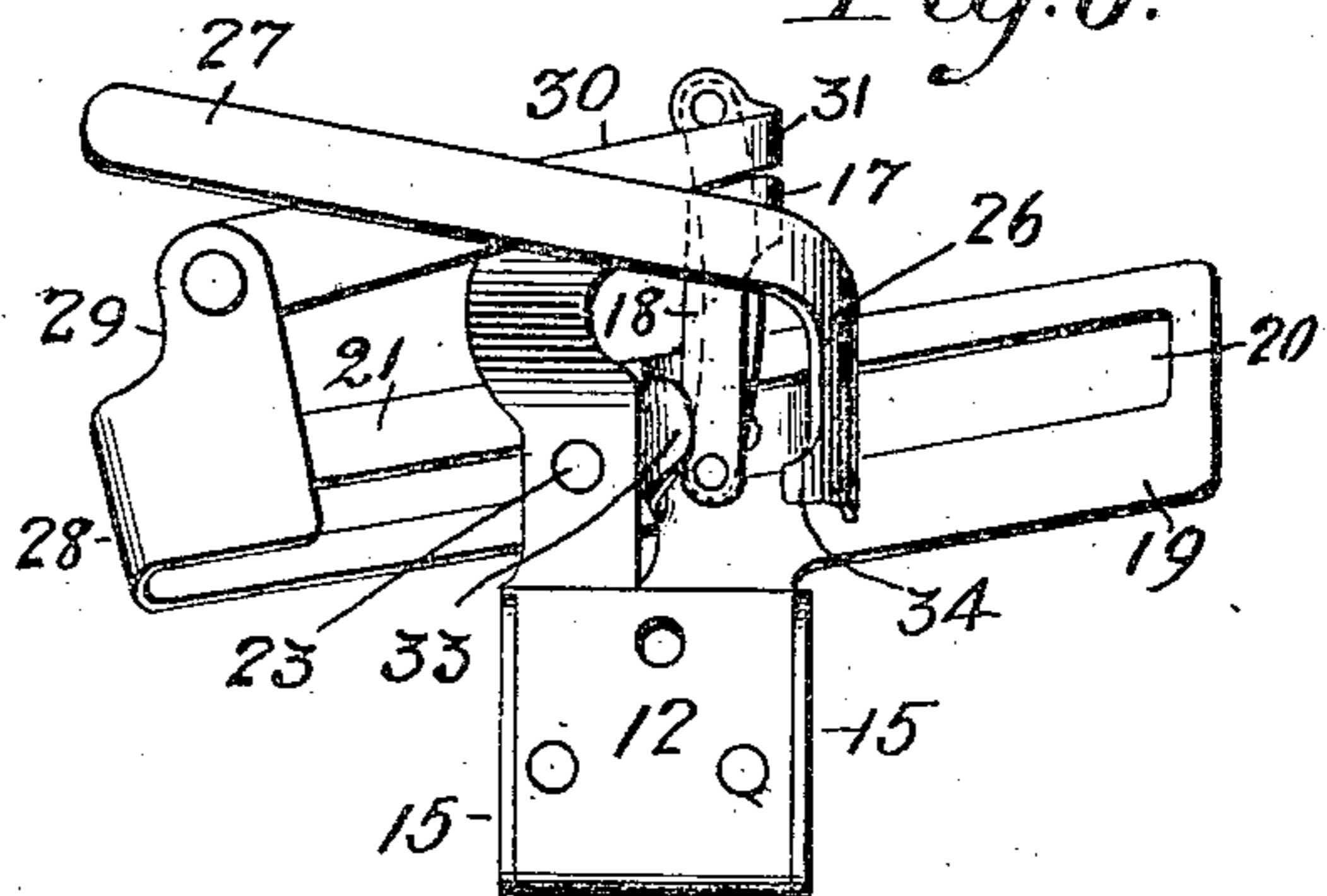


Fig. 6.



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UNITED STATES PATENT OFFICE.

MARY F. W. GREIST AND PERCY RAYMOND GREIST, OF NEW HAVEN, CONNECTICUT, ADMINISTRATORS OF JOHN M. GREIST, DECEASED, ASSIGNORS TO THE GREIST MANUFACTURING COMPANY, A CORPORATION OF CONNECTICUT.

SEWING-MACHINE HEMMER.

No. 855,304.

Specification of Letters Patent.

Patented May 28, 1907.

Application filed April 3, 1907. Serial No. 366,223.

To all whom it may concern:

Be it known that JOHN M. GREIST, deceased, late a citizen of the United States, and a resident of New Haven, county of New Haven, and State of Connecticut, did invent certain new and useful Improvements in Sewing-Machine Hemmers, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention relates to sewing machine hemmers of that class in which certain parts are made laterally adjustable so that the hemmers are adapted to form hems of different widths; and the invention has for its object to provide an adjustable hemmer, of simple construction, in which the parts are so arranged that the work, in making hems of any desired width, can be accurately and conveniently guided to the needle of the machine.

In the accompanying drawings, Figures 1 and 2 are plan views of the improved hemmer with the parts differently adjusted in the two views, and Figs. 3 and 4 are front views with the parts adjusted as in Figs. 1 and 2, respectively. Fig. 5 is a side view and Fig. 6 a bottom view of the improved hemmer.

Referring to the drawings, 12 denotes a presser-foot having a shank 13 for attaching said presser-foot and the hemmer supported thereby to the presser-bar of the sewing machine. Riveted or otherwise suitably secured to the presser-foot 12 is a plate 14 having downturned lips 15 embracing the presser-foot and having a forwardly extending finger 16 the front end of which projects laterally and is bent over upward to form a hooked lip or guide 17 from which extends rearwardly in the line of the feed of the work, or approximately so, a stationary finger 18. Another member or arm 19, fixed to said presser-foot and preferably formed separate from said plate 14, is extended laterally to serve as a support for the sliding adjustable part of the hemmer, said part or arm 19 having a slot 20 which is preferably formed slightly diagonal to the direction in which the work is passed through the hemmer.

The adjustable part of the hemmer comprises a sliding plate 21 having a slot 22 receiving a stud or pin 23 mounted on the fin-

ger 16, said stud or pin being suitably threaded for the reception of a set-nut 24 by which the sliding plate 21 and the parts connected therewith or carried thereby may be secured in any desired position of adjustment. The plate 21 has a neck portion 25 fitting in the slot 20 of the plate or part 19, so that the said sliding plate 21 is guided in its lateral adjustments or movements by said slot 20 as also by the stud or pin 23. Below the neck 25 and integral therewith is a curved guide 26 from which extends laterally the work-supporting arm 27. The guide 26 is preferably provided at its bottom with the inwardly projecting lug 34. At its right end the sliding plate 21 is curved downward at 28, and extended forward to form a finger 29 to which finger is pivotally attached a link 30 the right hand end of which is curved upward to form a hooked lip or guide 31 which is preferably about the size of the stationary hooked lip or guide 17 before referred to, the said hooked lip or guide 31 being connected by a swinging link 32 with the forward end of the finger 18, said links being thus jointed together at 35, and being also jointed to the adjustable finger 29 and to the stationary or fixed finger 18, respectively.

The plate or part 19 is turned down at its left hand end to form a hooked lip or guide 33. This hooked lip or guide 33 and the upwardly turned hooked lip or guide 17 form, together, and in co-operation with the curved guide 26 and the lip or guide 31, what may be termed the scroll part of the hemmer which turns over and in the edge of a piece of goods to form the hem, and the finger 18 extending forward from the lip or guide 17 to or past the lip or guide 33 serves partly as the tongue of the hemmer.

When the parts are in the position of adjustment shown in Figs. 2 and 4, for forming narrow hems, the lip or guide 31 on the link 30 is brought into register or alinement with the lip or guide 17, and forms practically a forward continuation of said lip or guide 17. In this position of the parts the swinging link 32 overlies both of said lips or guides 17 and 31 so that it supplements the finger 18 as the tongue part of the hemmer. When, however, the hemmer is adjusted for wider hems,

as in Figs. 1 and 3, the swinging link 32 is moved to the right, so that said link 32 and the finger 18 together with the lip or guide 31 serve as a widened-out tongue for the hemmer. In other words, the swinging links 30 and 32, the lip 31 on the former, and the finger 18, taken together, form what may properly be termed an expansible and contractible tongue for the adjustable hemmer; so that whatever may be the position of adjustment of the sliding plate 21 and the parts carried thereby the said tongue, over which the section of cloth forming the hem is folded, will properly support the work in making hems of different widths. This construction therefore avoids the objection to some forms of adjustable hemmers heretofore in use and in connection with which interchangeable tongues of different widths were required to properly support the work in making hems of different widths.

From the foregoing it will be seen that the improved hemmer comprises two stationary or fixed co-operating and oppositely turned and oppositely faced hooked lips or guides 17 and 33, the former of which is provided with the stationary or fixed forwardly extending finger or tongue 18, said improved hemmer also comprising the adjustable turning-over guide 26 and the adjustable hooked lip or guide 31 co-operating with said turning-over guide 26 in supporting the work, particularly when the device is adjusted for wide hems; and it will also be seen that the improved hemmer further comprises an expansible and contractible tongue comprising one stationary part, to wit, the finger 18, and two adjustable parts, to wit, the swinging link 30 with its lip or guide 31, and the swinging link 32.

It will therefore be understood that this invention provides a simple and compact adjustable hemmer having an expanding and contracting tongue, and the whole device, being mostly stamped out of sheet metal, is capable of being manufactured at little cost, while it is convenient and efficient in use.

Having thus described the said invention we claim:

1. An adjustable sewing machine hemmer comprising two oppositely facing, stationary or fixed edge-turning lips or guides, two parts or members on each of which one of said lips or guides is formed, and an expansible and contractible tongue comprising one stationary or fixed part and two adjustable or movable parts.

2. An adjustable hemmer comprising two oppositely facing, stationary or fixed edge-turning lips or guides, two separate parts or members each of which is provided with one of said lips or guides, and an expansible and contractible tongue consisting of the stationary or fixed finger 18 and the swinging links

30 and 32 jointed together and to the adjustable and stationary or fixed parts of the hemmer respectively.

3. An adjustable sewing machine hemmer comprising a presser-foot, two stationary edge-turning parts, two stationary members, fixed with relation to said presser-foot, and each of which is provided with one of said edge-turning parts, a laterally adjustable guiding part, and an expansible and contractible tongue connected with said stationary and adjustable parts.

4. An adjustable sewing machine hemmer comprising a presser-foot, two oppositely-facing, stationary edge-turning parts, two stationary members, fixed with relation to said presser-foot, and each of which is provided with one of said edge-turning parts, a laterally adjustable guiding part, and an expansible and contractible tongue connected with said stationary and adjustable parts, said tongue comprising the stationary finger 18 and the connected swinging links 30 and 32.

5. An adjustable hemmer comprising a presser-foot, a laterally extending stationary arm supported thereby, a forwardly extending stationary finger also supported by said presser-foot, oppositely facing edge-turning lips supported by said arm and finger, respectively, a laterally adjustable plate guided on said arm and finger in its adjusting movements and carrying a guiding part, and an expansible and contractible tongue.

6. An adjustable hemmer comprising a presser-foot, a laterally extending stationary arm supported thereby, a forwardly extending stationary finger also supported by said presser-foot, oppositely facing edge-turning lips supported by said arm and finger, respectively, a laterally adjustable plate guided on said arm and finger in its adjusting movements and carrying a guiding part, and an expansible and contractible tongue connected with said stationary finger and adjustable plate and comprising the finger 18 and the connected swinging links 30 and 32.

7. An adjustable sewing machine hemmer comprising the slotted laterally extending stationary arm 19 having the guiding lip 33, the stationary finger 16 having the stud or pin 23, set-nut 24, guiding lip 17 and finger 18, a support for said arm and finger, the slotted laterally adjustable sliding plate 21 guided by said arm and said stud or pin in its adjusting movements and having the finger 29, the guide 26 and arm 27, and the links 30 and 32 jointed together and also to the said fingers 29 and 18, respectively.

8. An adjustable sewing machine hemmer comprising the slotted laterally extending stationary arm 19 having the guiding lip 33, the stationary finger 16 having the stud or pin 23, set-nut 24, guiding lip 17 and fin-

ger 18, a presser-foot by which said arm and
finger are supported, the slotted laterally ad-
justable sliding plate 21 guided by said arm
and said stud or pin in its adjusting move-
5 ments and having the finger 29, the guide 26
and arm 27, and the links 30 and 32 jointed
together and also to the said fingers 29 and
18, respectively.

In testimony whereof we affix our signa-
tures, in presence of two witnesses.

MARY F. W. GREIST.

PERCY RAYMOND GREIST.

Administrators of the estate of John M. Greist.

Witnesses:

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