

No. 645,538.

Patented Mar. 20, 1900.

E. B. ALLEN.
SEWING MACHINE HEMMER.

(Application filed Dec. 6, 1898.)

(No Model.)

FIG. 1.

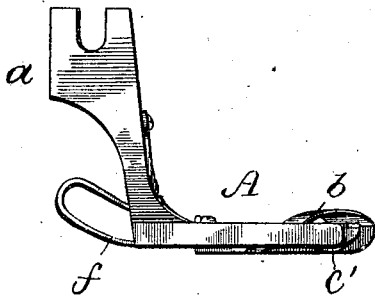


FIG. 3.

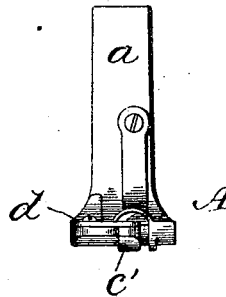


FIG. 2.

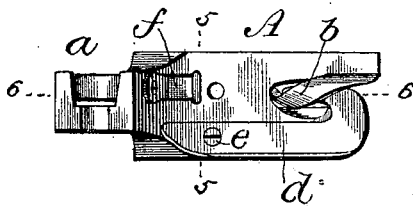


FIG. 5.

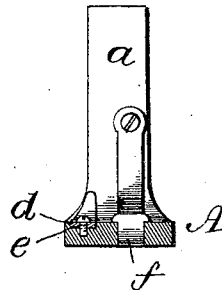


FIG. 4.

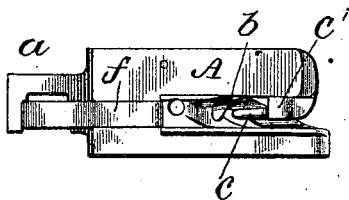
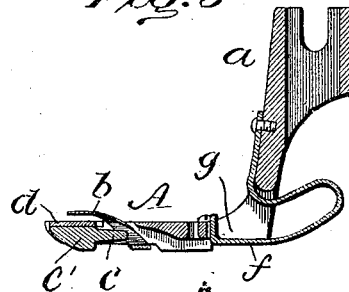


FIG. 6.



Witnesses:
J. M. Miller
Harry J. Miller

Inventor:
Edward B. Allen
by *Henry Salver*
Attorney.

UNITED STATES PATENT OFFICE.

EDWARD B. ALLEN, OF ELIZABETH, NEW JERSEY, ASSIGNOR TO THE
SINGER MANUFACTURING COMPANY, OF NEW JERSEY.

SEWING-MACHINE HEMMER.

SPECIFICATION forming part of Letters Patent No. 645,538, dated March 20, 1900.

Application filed December 8, 1898. Serial No. 698,421. (No model.)

To all whom it may concern:

Be it known that I, EDWARD B. ALLEN, a citizen of the United States, residing at Elizabeth, in the county of Union and State of New Jersey, have invented certain new and useful Improvements in Sewing-Machine Hemmers, of which the following is a specification, reference being had therein to the accompanying drawings.

10 This invention has for its object to provide an elastic-presser-foot hemmer of novel construction, the parts of which can yield sufficiently to allow of the easy passage of the work at cross-seams or fells, so that there will
15 be no necessity of helping the work along by the attendant when cross-seams are reached, as is the case with the presser-foot hemmers now in use. To this end the rigid tongue of the hemmer, which is in alinement centrally, or
20 approximately so, of the scroll, is mounted on a spring, so that it may yield upwardly when a cross-seam is passing through the hemmer, the scroll, which is of itself somewhat elastic, simultaneously yielding downward to permit
25 the thick part of the work to pass. The improved hemmer presser-foot is also preferably provided at its heel portion, rearward of the needle-hole, with a yielding portion which allows of the easy passage of the hem, but which
30 presses on the same in a manner to hold it properly and to insure reliable action of the feeding device.

In the accompanying drawings, Figure 1 is a side view, Fig. 2 a plan view, Fig. 3 a front
35 view, and Fig. 4 a bottom view, of the improved hemmer. Fig. 5 is a cross-section of the same on line 5 5 of Fig. 2, and Fig. 6 a longitudinal section on line 6 6 of Fig. 2.

A denotes the presser-foot, and *a* the shank
40 by which said foot is attached to the presser-bar. The foot A is provided with the usual hem-turning scroll *b* and with a rigid tongue *c*, which latter instead of being rigid with the foot A, as heretofore, is carried at the forward free end of a spring *d*, preferably attached to the foot A by a screw *e*. The small
45 block *c'*, on which the tongue *c* is formed and which block connects said tongue with the spring *d*, is constructed to bear on the work,

and thereby to serve as a yieldingly-mounted 50
presser part of the presser-foot.

The tongue *c* is arranged in alinement centrally, or approximately so, of the scroll *b*, as is usual; but when a thick part of the work, as a cross-seam or fell, is passing through 55
the hemmer the forward or free end of the spring *d* will yield, allowing the tongue to lift slightly to facilitate the passage of the work, and thus avoid the necessity of special attention by the operator in assisting the work 60
through the hemmer at cross-seams.

The improved hemmer presser-foot is preferably provided at its heel portion, in the line of the scroll and tongue, with a yielding section consisting, as herein shown, of a stiff 65
spring *f* to press on the hem being formed and which yielding section or spring, while properly pressing on the hem, will when lifted slightly afford a small groove at the bottom of the recess *g*, in which said yielding section 70
or spring is arranged to receive the passing hem. The narrow yielding or spring-pressed section of the presser-foot afforded by the spring *f* coöperates with the yieldingly-mounted tongue in that said tongue adapts the hemmer for the easy passage of thicker materials 75
than could otherwise readily pass through the hemmer, while the spring-pressed section of the presser-foot afforded by the said spring *f* when slightly lifted enables the pressure of 80
the presser-foot to be distributed between the comparatively-thick portion of the work at the hem and the work at the sides of the hem, so that the hem portion of the work can pass beneath the presser-foot with more freedom 85
and ease than would otherwise be possible for the reason that but for this spring-pressed section at the heel of the foot the pressure of the presser-foot would come almost entirely 90
on the doubled material of the hem, thereby causing an objectionable drag of the work at this point.

Having thus described my invention, I claim and desire to secure by Letters Patent—

A hemmer presser-foot provided with a needle hole or aperture, a turning scroll in front 95
of said needle-hole, and a yieldingly-mounted tongue extending within and coöperating with

said scroll, said foot having also, rearward of
said needle-hole, a narrow, yielding or spring-
pressed section arranged in line with said
tongue and which is adapted to yield inde-
pendently of the presser-foot to form a slight
5 groove in the bottom of the latter for the easy
passage of the hem.

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

EDWARD B. ALLEN.

Witnesses:

HENRY CALVER,
HENRY J. MILLER.