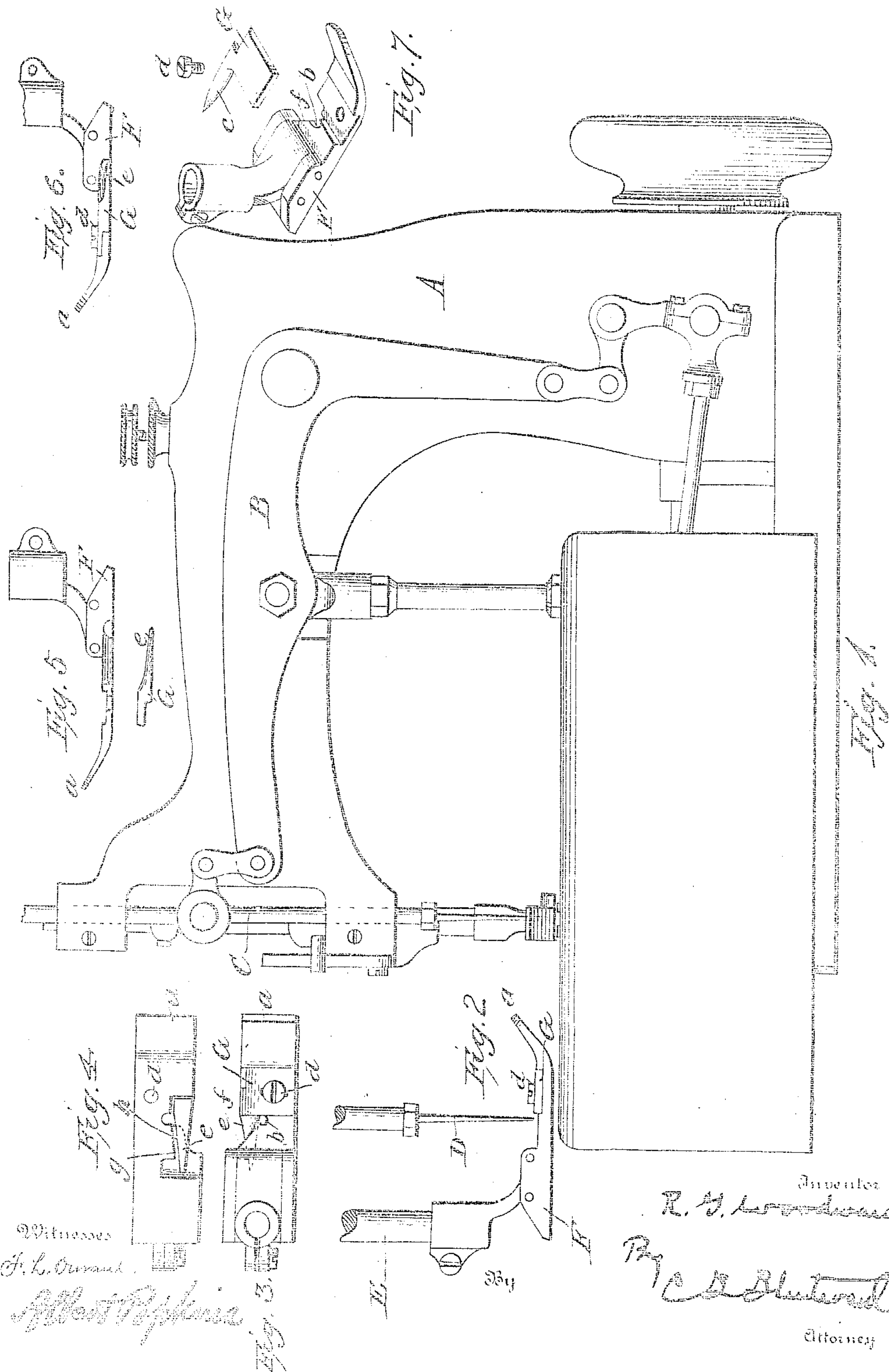


PRESSER FOOT FOR OVERSEAMING SEWING MACHINES.

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953,654.

Patented Mar. 29, 1910.



UNITED STATES PATENT OFFICE.

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PRESSER-FOOT FOR OVERSEAMING SEWING-MACHINES.

953,654.

Specification of Letters Patent. Patented Mar. 29, 1910.

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To all whom it may concern:

Be it known that I, RUSSEL G. WOODWARD, a citizen of the United States, residing at Waukegan, in the county of Lake, State of Illinois, have invented certain new and useful Improvements in Presser-Feet for Overseaming Sewing-Machines, of which the following is a description, reference being had to the accompanying drawing, and to the letters of reference marked thereon.

My invention relates to an improvement in presser feet, for sewing machines and particularly to a presser foot adapted to be used upon overseaming machines of the type employing a looper and spreader which cooperate with a vertically reciprocating needle, the looper thread being laid over a tongue on the presser foot to give elasticity to the stitch. Such a machine is illustrated in the Union Special single interlock machine, which is well known in the trade. In the use of such a machine with the ordinary tongued presser foot, it has been found that in sewing very light goods with a very long stitch, the needle thread will pull up out of the goods and also the goods are not properly held down upon the work plate. I have provided, therefore, a presser foot which has a tongue, the under side of which is flush with the under side of the presser foot, which tongue also extends beneath the part of the presser foot in rear thereof, leaving a clearance between its upper face and the lower face of the presser foot to allow the threads to slip off the tongue. Also said presser foot tongue serves to reduce the usual size of the needle opening and prevent any danger of the goods pulling up through said needle hole. The tongue is slightly adjustable laterally to permit the use of different sized threads.

The invention therefore, consists in the matters hereinafter described and referred to in the appended claims.

The invention is illustrated in the accompanying drawings, in which:

Figure 1 is a front elevation of the sewing machine embodying my invention, Fig. 2 is a side view of the presser foot showing also the needle in relation thereto, Fig. 3 is a top plan, and Fig. 4 a bottom plan view of the presser foot. Fig. 5 is a side view of the presser foot from the opposite side of Fig. 2, showing the tongue detached. Fig. 6 is a similar view showing the tongue in posi-

tion, and Fig. 7 is a perspective view of the presser foot.

In the drawings, A represents the framework of the sewing machine, B the needle lever, C the needle bar, and D the needle.

E is the presser bar carrying in its lower end the presser foot F. This presser foot has the forward upturned toe *a* and is cut out as shown at *b* to provide one side of the needle opening.

G represents a flat plate or piece secured by a screw *d* to the top of the foot and having a tongue *e* extending rearwardly and depressed so that its under surface is flush with the under surface of the presser foot, so that as shown in Fig. 4, the under side of the presser foot affords a practically continuous surface to press the goods upon the work support. This tongue *e* extends rearwardly beneath the overhanging beveled edge *f* of the presser foot having a clearance between the upper face of the tongue and the under face of the beveled portion, to allow the threads to slip off the tongue. The incline or bevel *f* begins at about the point, where the thread is laid over the tongue, and by inclining it as shown, the threads are guided properly beneath the foot portion and do not catch thereon, and furthermore said threads are guided off the tongue and toward the edge of the material by inclining the tongue at *h* parallel with the adjacent portion *g*, of the under side of the presser foot. The tongue also serves as the outer boundary line of the needle opening, thus guiding the needle so snugly in the opening that there is no danger of the goods being pulled up by the needle.

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

1. A presser foot for sewing machines having a body portion having a cut out portion, a tongue in said cut out portion, said tongue having its lower face flush with the bearing surface of the presser foot and its upper surface inclined downwardly toward its stitch shedding point, said stitch shedding point extending beneath the adjacent body portion of the presser foot, which is correspondingly inclined upwardly and extends over said tongue to a point adjacent where the stitches are laid over said tongue; substantially as described.

2. A presser foot for sewing machines,

having a body portion with a cut out portion, a tongue in said cut out portion, said tongue having its lower face flush with the bearing surface of the presser foot, and its upper surface inclined downwardly toward its stitch-shedding point, said stitch-shedding point extending beneath the adjacent body portion of the presser foot, which is correspondingly inclined upwardly and which is also inclined to the longitudinal axis of said tongue.

3. A presser foot having a cut out portion at one side thereof, and a recess in its upper surface, a stitch supporting tongue having a shank mounted in said recess, said stitch supporting tongue having its lower face substantially flush with the bearing surface of the presser foot and its upper surface inclined downwardly toward its

stitch shedding point; substantially as described. 20

4. A presser foot having a cut out portion at one side thereof, and a recess in its upper surface, a stitch supporting tongue having a shank mounted in said recess, means whereby said tongue may be adjusted, said stitch supporting tongue having its lower face substantially flush with the bearing surface of the presser foot and its upper surface inclined downwardly toward its stitch shedding point; substantially as described. 25 30

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

RUSSEL G. WOODWARD.

Witnesses:

CHESTER McNEIL

EMIL STEIN.