

No. 621,146.

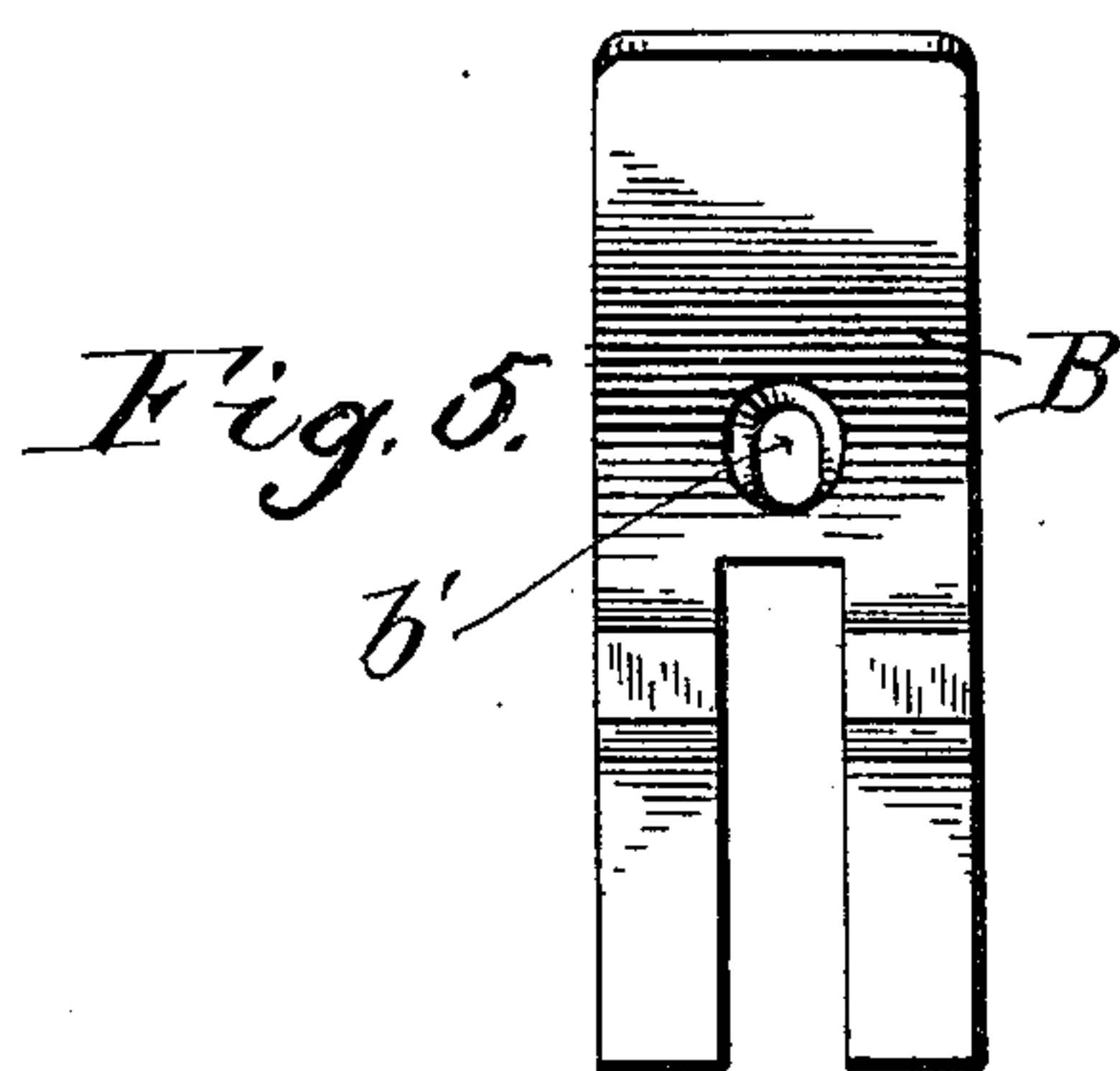
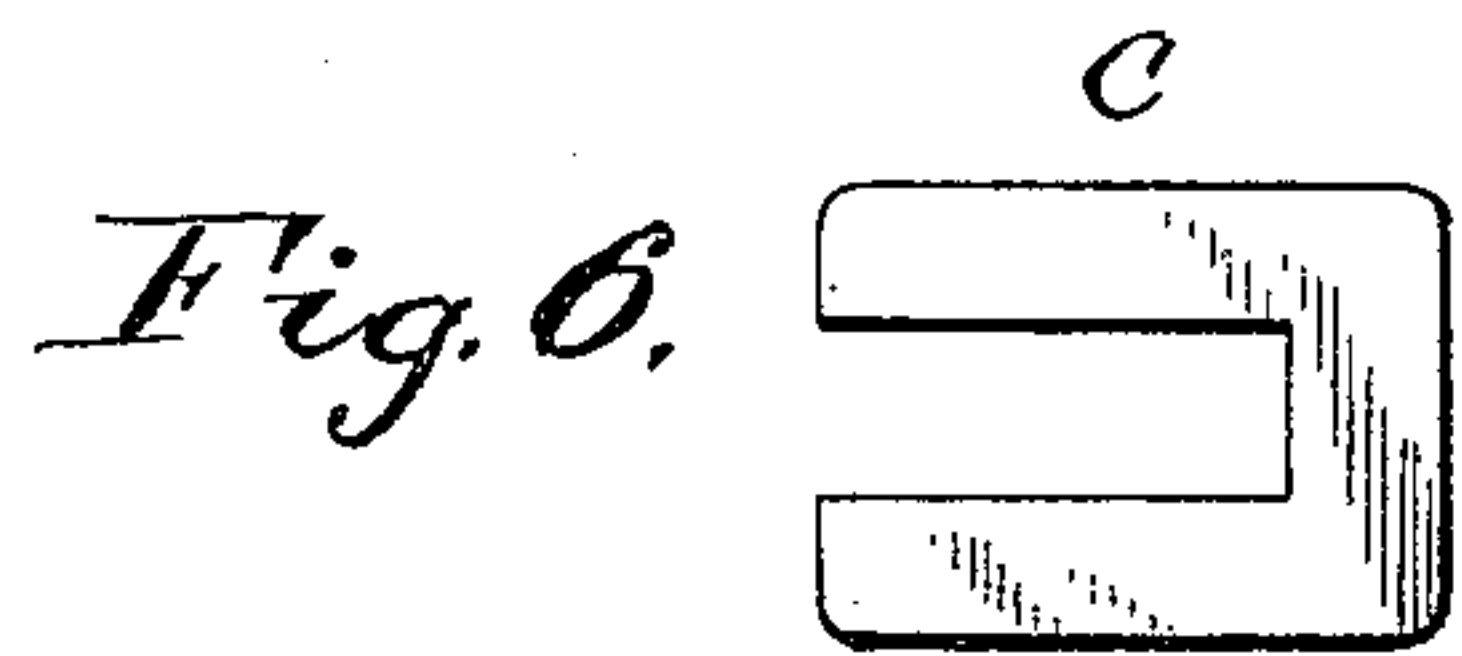
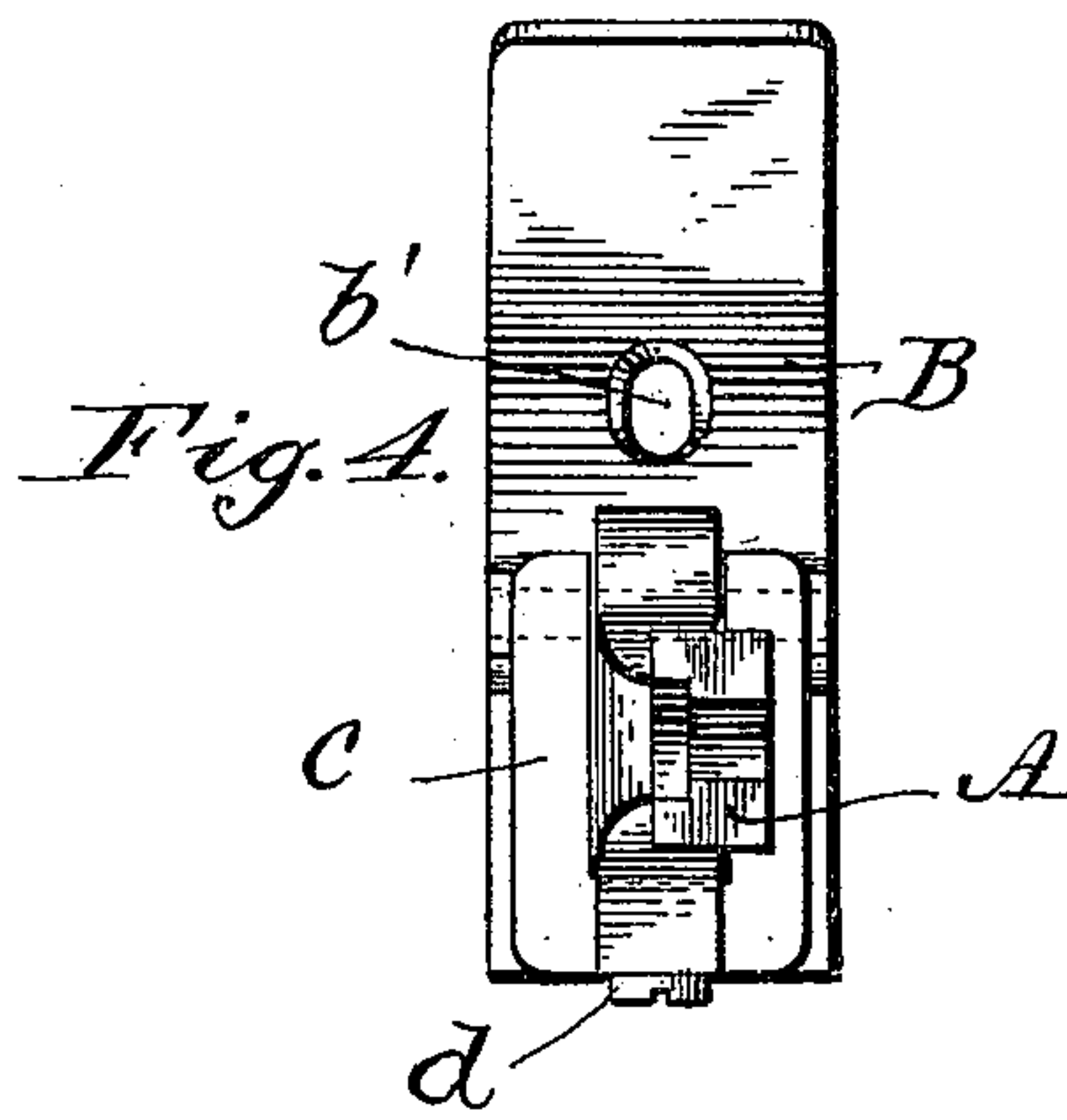
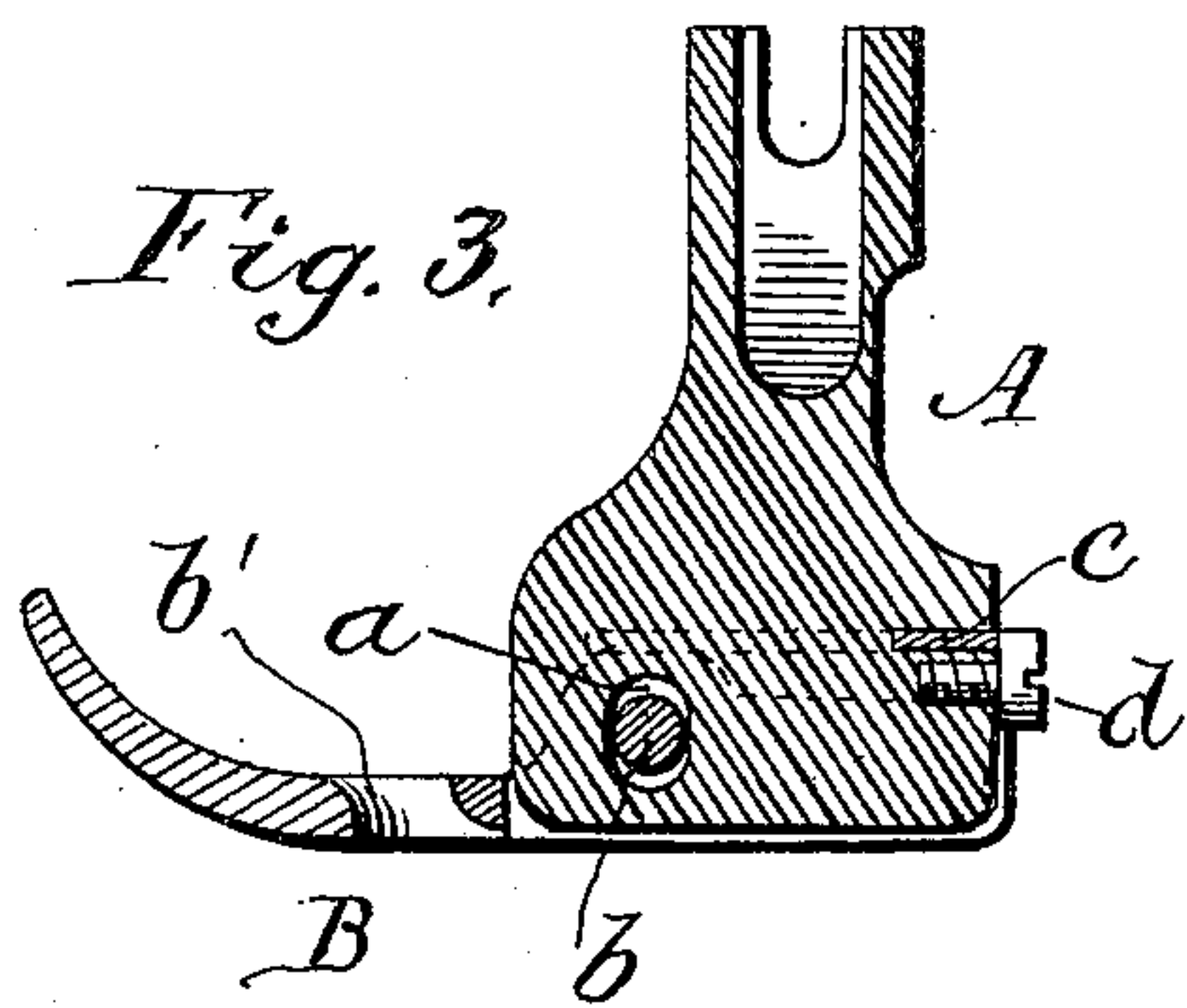
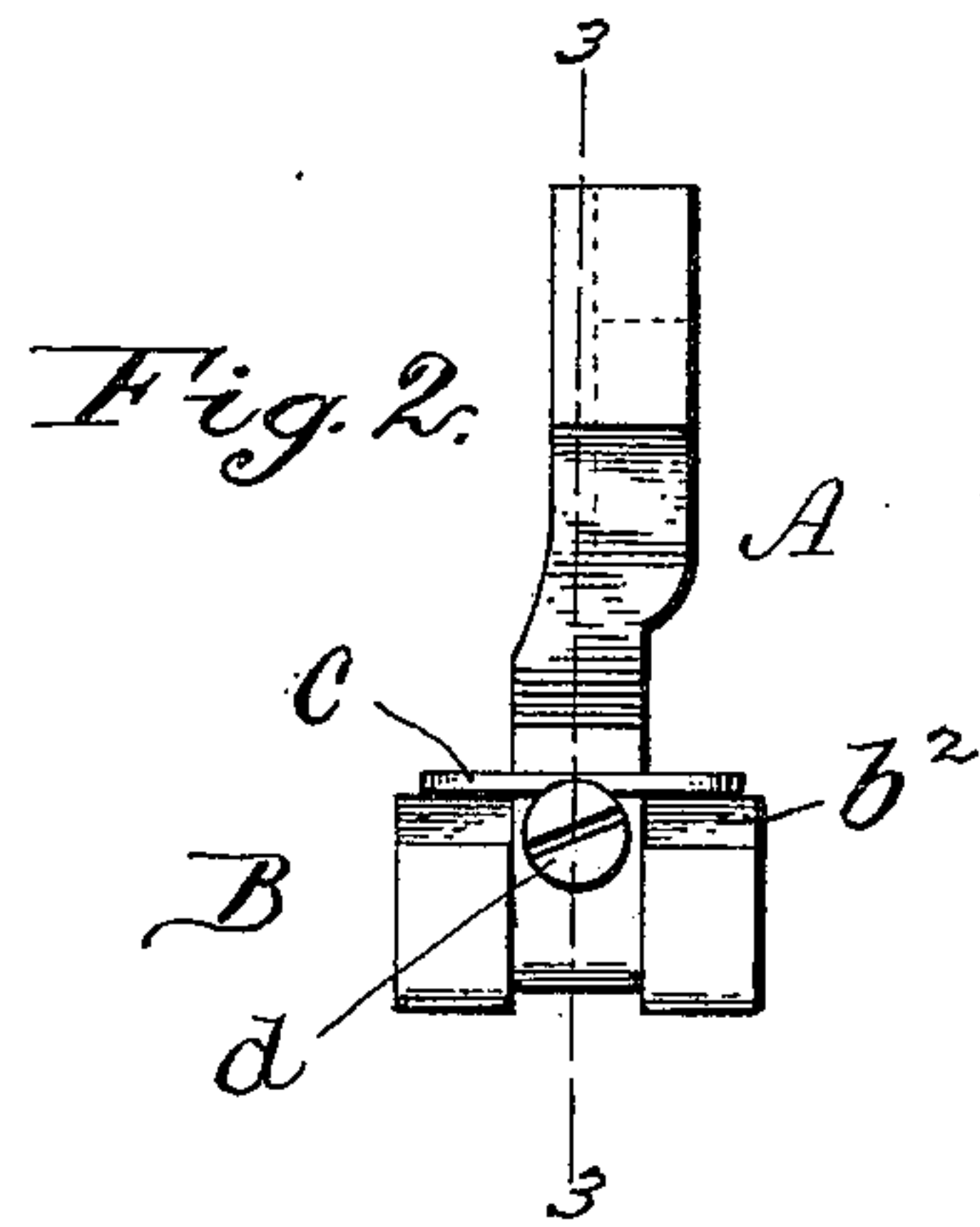
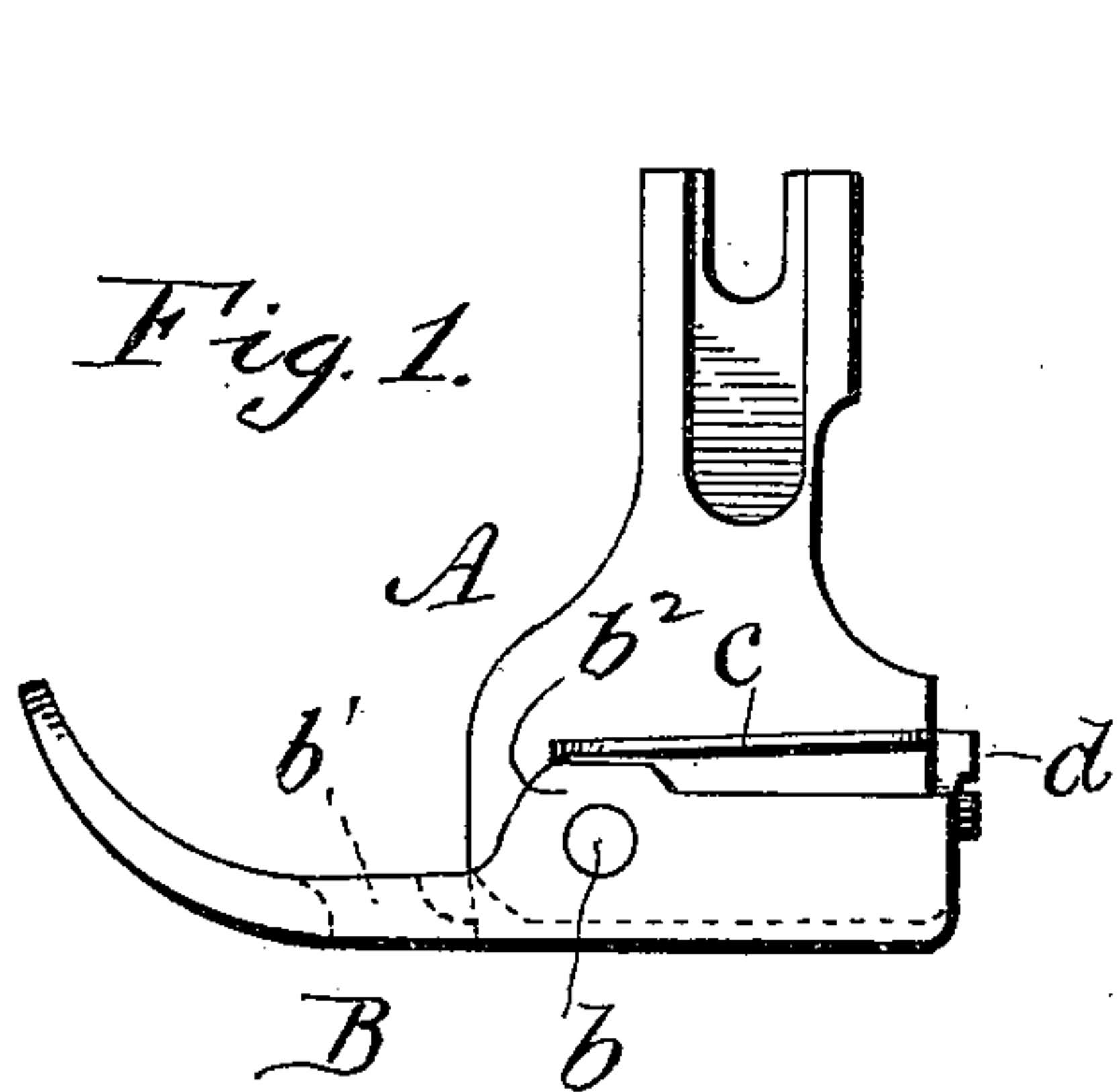
Patented Mar. 14, 1899.

A. RONTKE.

PRESSER FOOT FOR SEWING MACHINES.

(Application filed Apr. 28, 1898.)

(No Model.)



Witnesses:  
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# UNITED STATES PATENT OFFICE.

ALBERT RONTKE, OF ELIZABETH, NEW JERSEY, ASSIGNOR TO THE SINGER MANUFACTURING COMPANY, OF NEW JERSEY.

## PRESSER-FOOT FOR SEWING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 621,146, dated March 14, 1899.

Application filed April 28, 1898. Serial No. 679,101. (No model.)

*To all whom it may concern:*

Be it known that I, ALBERT RONTKE, 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 Presser-Feet for Sewing-Machines, of which the following is a specification, reference being had therein to the accompanying drawings.

10 This invention has for its object to provide a sewing-machine presser-foot of such construction that when a seam of somewhat coarse thread is being formed in thin goods the pressure of the presser-foot will be properly divided and distributed between the seam and the goods outside thereof. To this end the presser-foot is connected with a shank by a pivot-pin which passes through a hole or slot in the shank somewhat larger vertically than the diameter of the said pin, so that the shank and foot may have limited yielding vertical movements independent of each other, the shank having an attached spring which bears on portions of the presser-foot adjacent to the pivot, so as to permit of the limited yielding vertical movements referred to.

In the accompanying drawings, Figure 1 is a side elevation of a presser-foot embodying the invention; and Fig. 2 is a rear view thereof, looking from the right of Fig. 1. Fig. 3 is a vertical section of the improved presser-foot as a whole, and Fig. 4 a plan view thereof. Fig. 5 is a detail plan view of the foot proper with the shank removed, and Fig. 6 a detail plan view of the spring.

35 A denotes the presser-foot shank, adapted to be attached to an ordinary presser-bar. The shank A is provided with a slot *a*, through which loosely passes a pivot-pin *b*, said pin fitting tightly in holes formed for its reception in the central part or parts of the foot B, so that said foot is pivotally attached to its shank in such a manner as to enable it to rock or tilt when seams or irregular parts of the work pass beneath it. The foot B is provided with a needle-hole *b'*, which is in front of and in line with that portion of the shank *a* which is received between the forked or divided rear portion of the foot. Attached to the shank 50 A is a U-shaped plate-spring *c*, the front ends

of the arms of which bear upon rounded ears *b<sup>2</sup>*, with which the presser-foot B is provided above the pivot-pin *b*. The cross-bar portion of this spring is received in a small slot formed for its reception in the rear part of the shank A, and said spring is retained in place by a screw *d*, tapped in the rear part of said shank in such position that its head will overlap said spring and retain it in place in its slot. The spring *c* is of such strength that the pressure of the ordinary presser-bar spring will be communicated to the foot B through said spring *c*, thus dividing the pressure of the presser-bar spring in such a manner that somewhat more pressure will come on the side bearing portions of the presser-foot proper than upon that portion of the presser-foot represented by the bottom of the shank A. Thus the bottom of the said shank A will be normally slightly above the bottom of the presser-foot B, so that when a somewhat prominent seam, like a double-chain-stitch seam of rather coarse thread, is formed in thin goods the pressure of the presser-foot will not come entirely on the seam proper, but will be distributed between the seam and the portions of the work on each side thereof and pressed upon by the parts of the presser-foot B at each side of the bearing portion of the shank A. This operation will be understood from reference to Fig. 3, which represents the relative positions of the shank and foot portions of the presser-foot when the device is in normal operation.

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

1. In a sewing-machine presser-foot, the combination with a shank provided with a slot, of a pivot-pin passing loosely through said slot, a presser-foot having portions provided with holes in which said pivot-pin closely fits, and a spring attached to said shank and provided with arms or portions bearing upon the said presser-foot above said pivot-pin; whereby limited vertical bodily movements, relatively to each other, of the shank and foot proper are permitted.

2. The combination with the shank A provided with a vertical slot, of the presser-foot



B having a divided or forked rear portion occupied by the lower part of said shank and having a needle-hole in front of but in line with the lower part of said shank, the pivot-  
5 pin *b* passing loosely through said slot, so as to have a limited vertical movement therein, and fitting tightly in holes in parts of said presser-foot, and the U-spring *c* attached to said shank and provided with arms bearing

upon ears or portions of said presser-foot to above said pivot-pin.

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

ALBERT RONTKE.

Witnesses:

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