

(No Model.)

J. M. GRIEST.

ATTACHMENT HOLDER FOR SEWING MACHINES.

No. 421,927.

Patented Feb. 25, 1890.

Fig. 1.

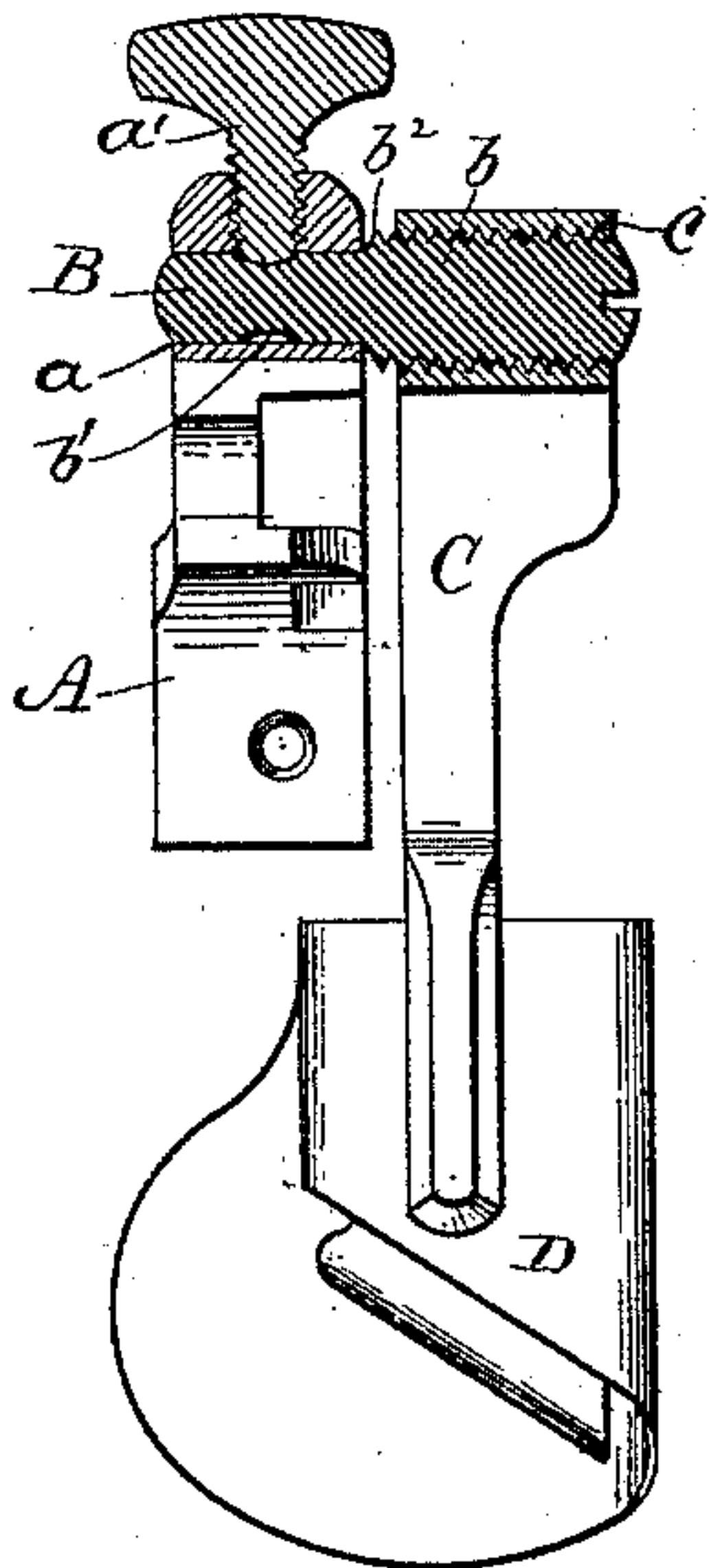


Fig. 2.

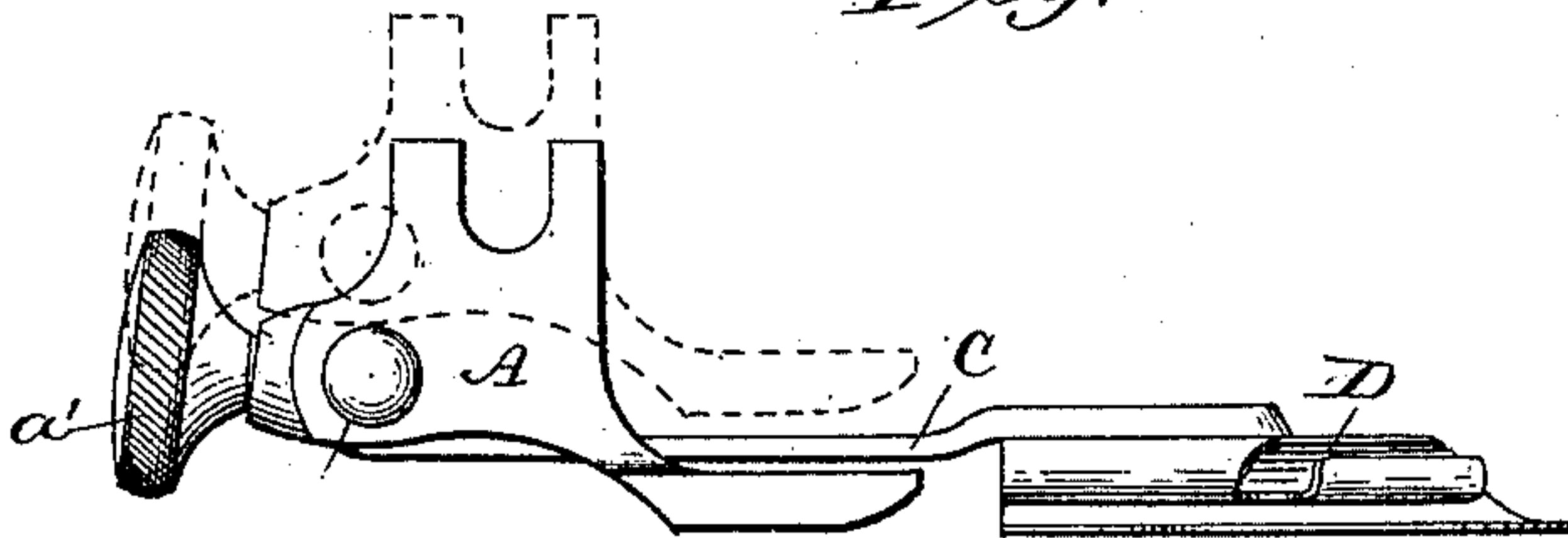


Fig. 3.

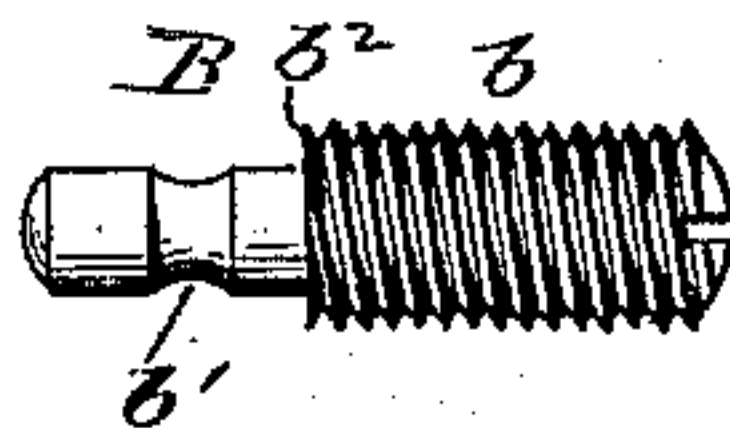


Fig. 4.

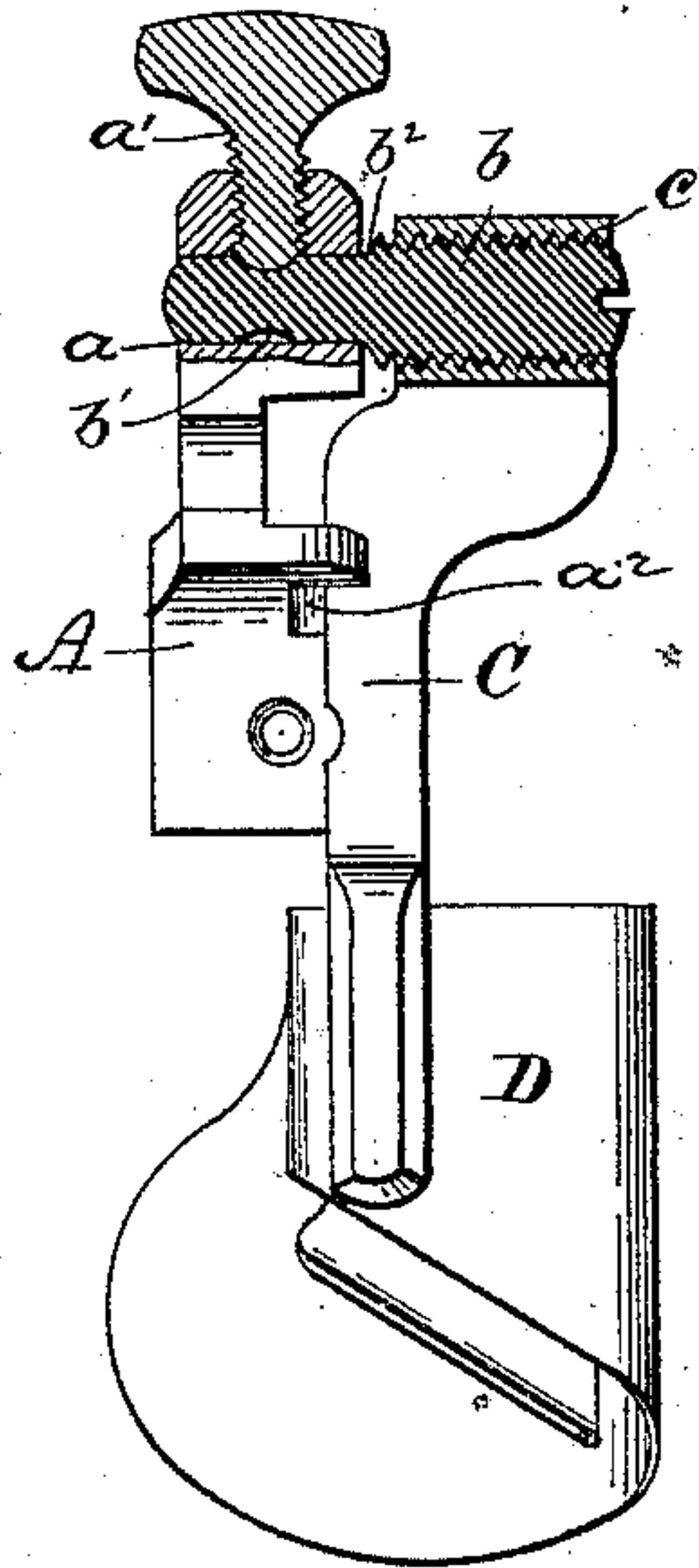
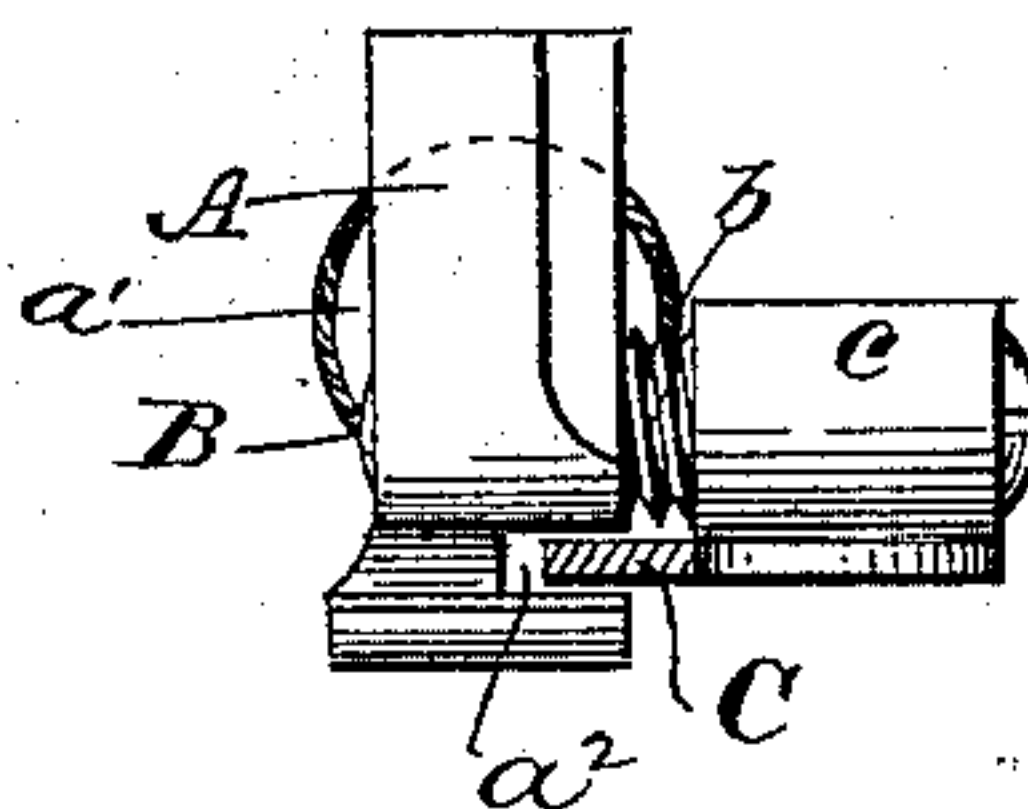


Fig. 5.



Witnesses:

E. K. Smith

A. D. Cushman

Inventor:

John M. Griest

By his Attorney

Henry Calvert

UNITED STATES PATENT OFFICE.

JOHN M. GRIEST, OF BERGEN POINT, NEW JERSEY, ASSIGNOR TO THE
SINGER MANUFACTURING COMPANY OF NEW JERSEY.

ATTACHMENT-HOLDER FOR SEWING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 421,927, dated February 25, 1890.

Application filed December 12, 1889. Serial No. 333,399. (No model.)

To all whom it may concern:

Be it known that I, JOHN M. GRIEST, a citizen of the United States, residing at Bergen Point, in the county of Hudson and State of New Jersey, have invented certain new and useful Improvements in Sewing-Machine Attachment-Holders, of which the following is a specification, reference being had therein to the accompanying drawings.

It is desirable in making sets of hemmers and other sewing-machine attachments which are to be secured to the presser-foot to have them readily adjustable to the right or left without swinging out of line with the feed of the machine. In making such right or left or lateral adjustment of a hemmer or similar attachment to bring its guiding-edge in proper relation to the line of the needle it is desirable that when the proper adjustment has been secured the construction of parts will be such that after the attachment has been removed from the presser-foot it may be replaced and accurately brought into its former position of adjustment without special care on the part of the operator. Thus, the proper adjustment of the hemmer or similar attachment having been once secured, the attachment may be removed and replaced without disturbing such adjustment. It is also frequently desirable in adjusting the work before starting in to sew at the beginning of a hem to have the hemmer below the level of the bottom of the presser-foot when the latter is raised, so that the cloth may be drawn back and forth to roll the hem before adjusting the work to the needle to begin to sew at the end of the hem.

My invention has for its object to provide a certain novel construction of parts by which a hemmer or similar attachment may be so secured to a sewing-machine presser-foot as to attain the results above stated.

In carrying my invention into effect I provide the rear of the presser-foot with a transverse socket, into which is fitted one end of a round pin or bar, the projecting end of which is screw-threaded and is received in an internally-threaded eye at the rear end of a shank, carrying at its forward end the hemmer or similar attachment. The part of the pin or bar received in the socket of the presser-foot

is preferably of less diameter than the other part thereof, and is provided with an annular groove or notch to be engaged by the end of a device or set-screw which retains the pin or bar in its socket. The larger projecting part of the pin or bar is screw-threaded externally and is engaged by an internally-threaded eye on the rear end of an attachment-carrying shank, the said pin or bar being provided at one end with a nick for the reception of a screw-driver, by which it may be turned when necessary. The round pin or bar permits the hemmer at the forward end of the shank to drop or be depressed below the bottom of the presser-foot when the latter is raised; and to adjust the hemmer or other attachment to the right or left it is only necessary to turn the pin or bar one way or the other, the set-screw being first slightly loosened to permit of such turning.

In the accompanying drawings, Figure 1 is a plan view, partly in section, of the preferred form of my invention. Fig. 2 is a side view of the same. Fig. 3 is a detail view of the pin. Fig. 4 is a view similar to Fig. 1, showing a slightly-modified form of my invention; and Fig. 5 is a front view of the same with the attachment-carrying shank in section.

A denotes a presser-foot provided at its rear portion with a round socket *a*, in which is fitted one end of a round pin B, the other or projecting end *b* of which is preferably of larger diameter than the end in said socket and is screw-threaded externally. The pin B is provided with an annular groove or notch *b'*, and is retained in its socket *a* by a device consisting, preferably, of a set-screw *a'*, the inner end of which enters said groove or notch. The inner end *b²* of the enlarged portion of the pin B forms a shoulder or stop, and the groove *b'* is at such distance from said shoulder or stop that when the latter is in contact with the inner or right side of the presser-foot the said groove is opposite the end of the said set-screw. Thus in inserting the said pin in place it will always come to the same position of adjustment without special care on the part of the operator.

C is the attachment-holding shank or bar, to the forward end of which is secured the hemmer or other attachment D, said bar be-

ing provided at its rear end with an internally-threaded eye *c*, receiving the threaded part of the pin B.

To adjust the hemmer or other attachment 5 laterally or to the right or left, the set-screw *a'* may be slightly loosened, and the pin B may then be turned in its socket by a screw-driver inserted in the nick in its end, thus causing the shank C to travel to the right or 10 left to bring the guiding-edge of the attachment in proper relation to the line of the needle and without swinging the attachment out of line with the feed.

As hereinbefore stated, it is sometimes desirable when adjusting the work in commencing to sew a hem to have the hemmer below 15 the bottom of the presser-foot when the latter is raised, so that the cloth may be drawn back and forth to roll the hem. The set-screw *a'* does not hold the round pin B so tight but 20 that when the presser-foot is lifted, as denoted by dotted lines in Fig. 2, the hemmer may drop or be pressed down upon the work-plate of the machine to permit the cloth to be drawn 25 back and forth, and when the presser-foot is again lowered upon the work the parts assume the normal position, (denoted in full lines in Fig. 2,) the attachment-carrying shank C being to the right of or in a different vertical 30 plane from the presser-foot, so that the latter will not interfere therewith. Thus the presser-foot-attached hemmer will have all the advantages of a bed-plate-attached hemmer without the disadvantages of the latter. 35 Moreover, the round pin B permits the hemmer to be raised when it is desired to pass the material under it to sew a seam while hemming.

In the modification shown in Figs. 4 and 5 40 the construction and arrangement of parts are the same as is hereinbefore described, excepting that the shank C is arranged to come above the right side of the presser-foot, the latter having a notch *a²* to receive said shank. 45 This provides for a positive engagement of the said shank with the presser-foot, so that the attachment will be moved up and down therewith when said foot is raised and lowered, as may be desirable with some classes 50 of work.

From the foregoing it will be apparent that my invention comprises as an essential feature a pin or bar removably secured to the presser-foot and provided with a stop, afforded by the shoulder *b²*, to insure that it 55 will be set in its proper position of adjustment when replaced after removal, combined with an attachment-carrying shank which is laterally adjustable on the said pin or bar, and preferably by means of the screw adjustment afforded by the threaded portion of 60 said pin or bar and the internally-threaded socket of the said shank.

I claim—

1. The combination, with the presser-foot 65 having the socket, of the pin or bar fitted in said socket and having an annular groove or notch and a projecting threaded end, a device for engaging said notch or groove to secure said pin or bar in said socket, and an 70 attachment-carrying shank having an internally-threaded eye entered by the threaded part of said pin or bar.

2. The combination, with the presser-foot 75 having the socket, of the pin or bar fitted in said socket and having an annular notch or groove, a projecting threaded end, and a shoulder or stop, a device to engage said notch or groove to secure said pin or bar in 80 said socket, and an attachment-carrying shank having an internally-threaded eye entered by the threaded part of said pin or bar.

3. The combination, with the presser-foot 85 having the socket, of a pin or bar having an annular groove and a projecting threaded end of larger diameter than the other part thereof, and the inner end or shoulder of which serves as a stop, a device or set-screw to engage said groove to secure said pin or 90 bar in said socket, and an attachment-carrying bar having an internally-threaded eye entered by the threaded part of said pin or bar.

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

JOHN M. GRIEST.

Witnesses:

L. B. MILLER,
L. L. BURRITT.