

C. CHABOT & L. L. CHENEY.

Presser Feet for Sewing-Machines.

No. 133,201.

Patented Nov. 19, 1872.

Fig. 1.

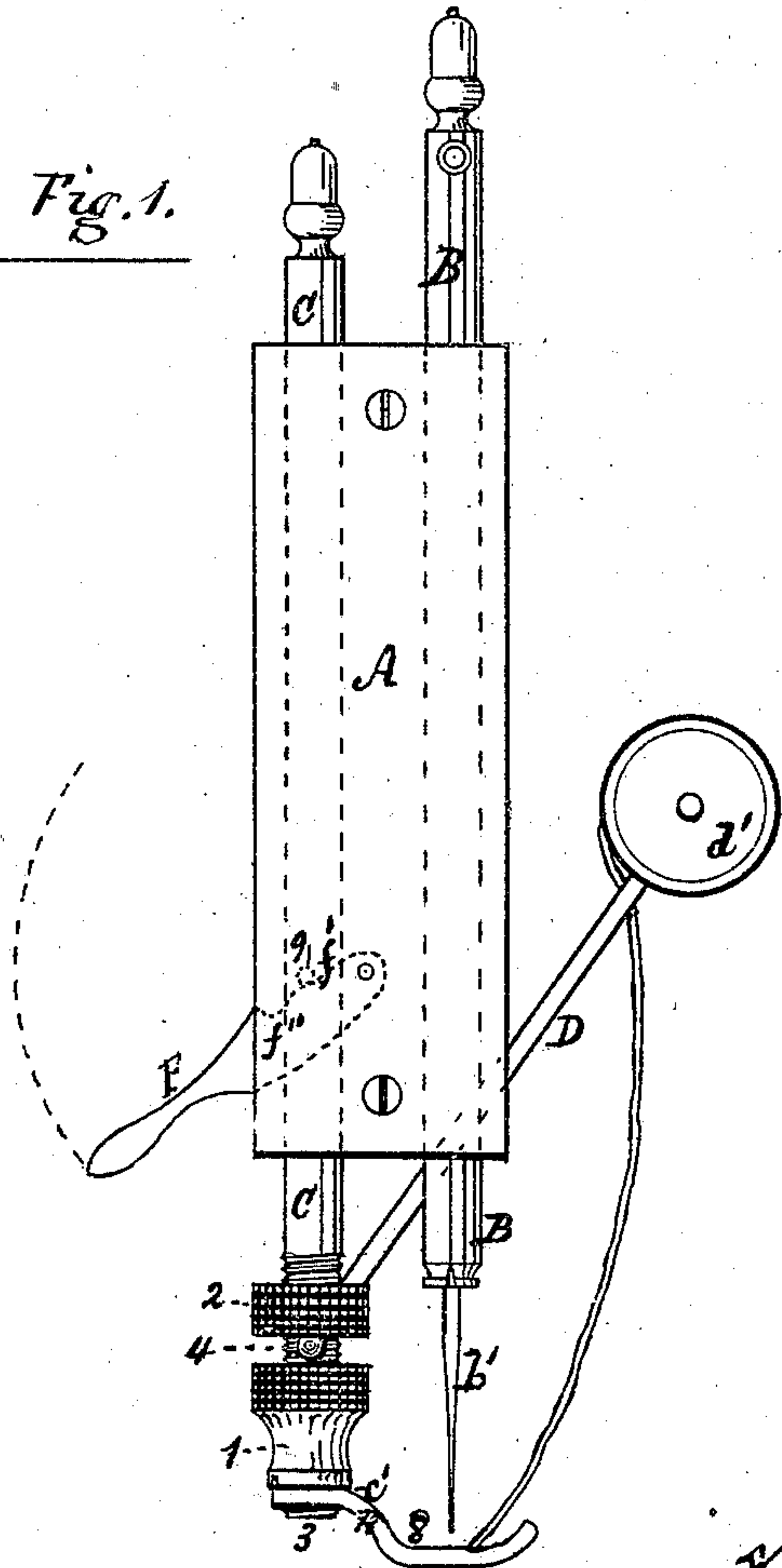


Fig. 2.

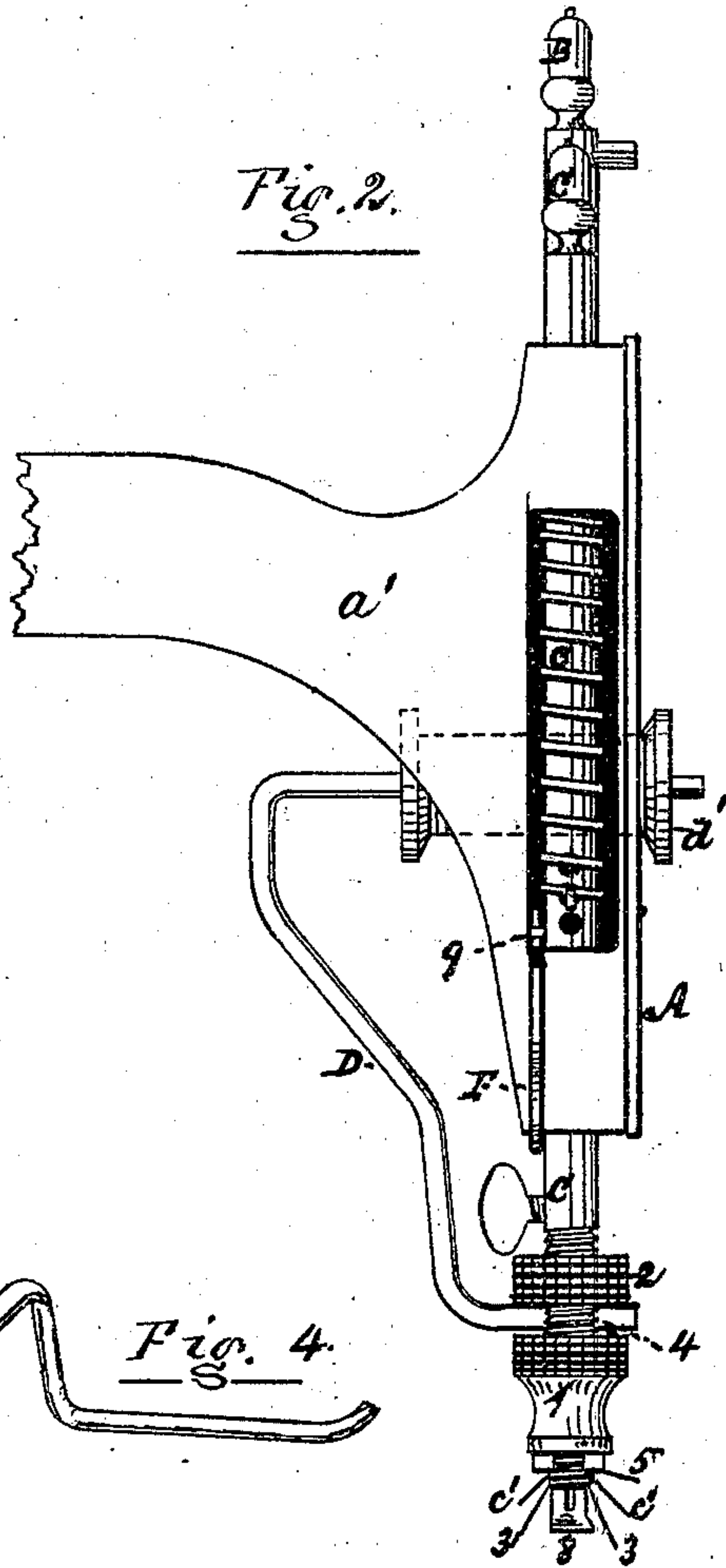


Fig. 4.

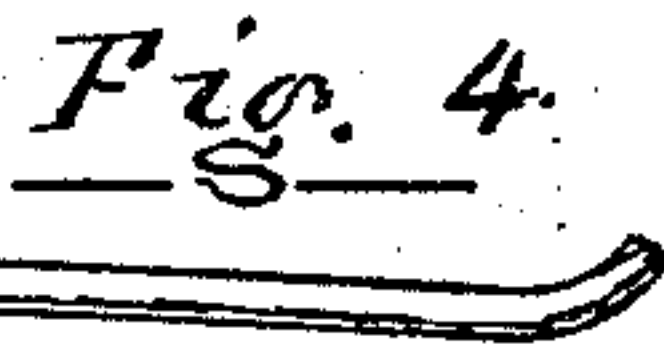


Fig. 5.



Fig. 6.



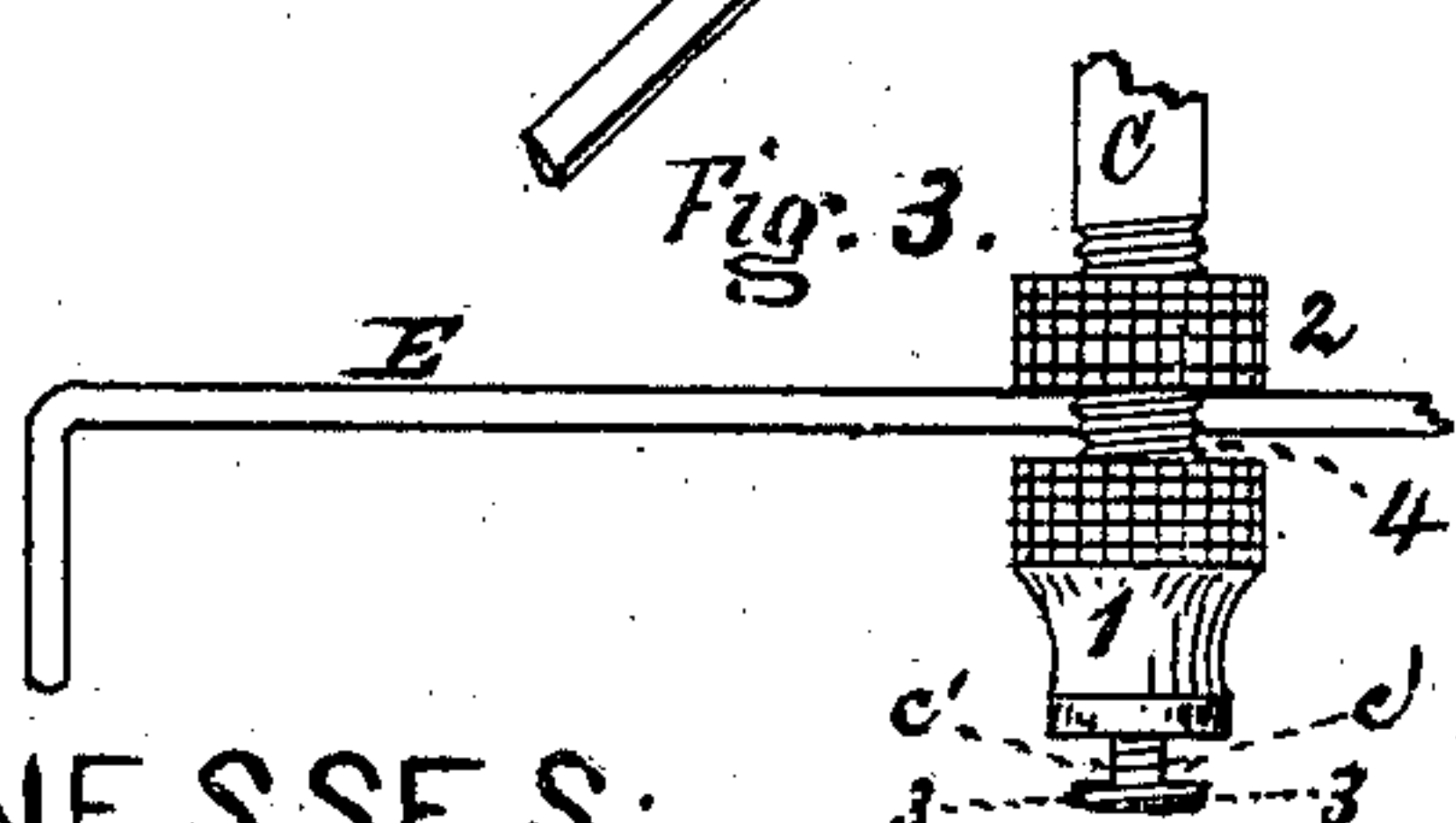
Fig. 7.



Fig. 8.



Fig. 3.



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UNITED STATES PATENT OFFICE.

CYPRIEN CHABOT AND LUTHER L. CHENEY, OF PHILADELPHIA, PA.

IMPROVEMENT IN PRESSER-FEET FOR SEWING-MACHINES.

Specification forming part of Letters Patent No. 133,201, dated November 19, 1872; antedated November 16, 1872.

To all whom it may concern:

Be it known that we, CYPRIEN CHABOT and LUTHER L. CHENEY, of the city of Philadelphia, in the State of Pennsylvania, have invented certain Improvements in Sewing-Machines, of which the following is a specification:

Our improvements have special reference to the pressure-bar and its changeable attachments. The first part of our invention relates to the combination of a narrow slot with the bifurcated end of each of the changeable devices applicable to the lower end of the pressure-bar in such a manner that the respective devices can be removed or changed without detaching the needle for the purposes. The second part of our invention relates to the construction and arrangement of certain recesses and shoulders at the lower end of the pressure-bar with a cylindrical screw-nut above the said recesses and shoulders in such a manner that the respective bifurcated ends of the foot, hemmer, corder, and braider may be attached to and detached from the pressure-bar with facility without the aid of the usual wrench or screw-driver heretofore required.

Figure 1 is a front elevation of the usual face-plate A of a sewing-machine, with the usual needle-bar B and needle *b'* attached, and also the pressure-bar C and the supporting-stem D of the braid-holding spool, embodying our invention. Fig. 2 is a side elevation of Fig. 1, with a section of the main supporting-arm *a'*. Fig. 3 is a section of the lower part of Fig. 2, with the seamer or quilting gage E attached. Fig. 4 is a perspective view of the seamer or quilting gage detached. Figs. 5, 6, 7, 8 are, respectively, plan views of the hemmer, corder, braider, and foot.

The lower end of the pressure-bar C is screw-cut, and fitted with two separate traversing cylindrical screw-nuts with roughened sides—a lower one, 1, and an upper one, 2. The extreme lower end of the bar C has two flat-bottomed recesses, *c' c'*, cut across in two opposite sides of the bar, leaving two projecting shoulders, 3 3, at the respective lower ends of said recesses *c' c'*. Between the separated nuts 1 and 2 there is a hole, 4, bored transversely through the pressure-bar C, for the reception of the stem of either the support D

of the braid-spool *d'*, as shown in Figs. 1 and 2, or of the gage E, as shown in Fig. 3. The length of the screw-nut 1 is made a little less than the space between the hole 4 in the bar C and the upper ends of the recesses *c' c'*, for the purpose of allowing the said recesses to be entirely clear for the application of either of the changeable devices, consisting of the foot 8, hemmer 5, corder 6, and braider 7, each of the said changeable devices having its attachable end bifurcated so as to make it correspond with or fit against the bottoms of the recesses *c' c'* of the bar C, and allow the nut 1 to be screwed down firmly upon the said bifurcated end of either of the said changeable pieces, and thus clamp the latter firmly between the said nut 1 and shoulders 3 3 of the bar C. (See Figs. 1 and 2.) The braid-spool supporter D and the seam or quilting gage E are, respectively, applied and secured, as occasion may require, by inserting the stem of either through the hole 4 in the bar C, and screwing the nut 2 firmly down upon it, as represented in Figs. 1, 2, and 3. The screw-nut 1, being roughened and cylindrical at its upper part, can be operated with facility by one's thumb and finger for attaching and detaching the foot, hemmer, corder, or braider, as occasion may require, and thus the wrench or screw-driver hitherto used can be dispensed with.

It will be seen, without further explanation, that all the changeable devices described can be attached and detached with ready facility, and that the construction of the different parts for the purpose are very simple, and not liable to break or otherwise get out of order.

The necessary raising and lowering of the pressure-bar C is effected, with facility, by means of the cam-lever F, the fulcrum-pin of which is fixed in the lower part of the main supporting-arm *a'* of the machine. It has a cam-shaped curve, *f'*, and a notch, *f''*, on its upper edge, (see the dotted lines in Fig. 1,) upon which a pin or stud, 9, which projects from the pressure-bar C, alternately bears, in consequence of the usual spiral spring around the said bar, and as the lever F is raised the cam slides under the pin and thus elevates the pressure-bar until the said pin enters the notch *f''*, and thus supports the bar firmly in the re-

quired elevated position; and as soon as the operator moves the lever slightly forward, and thus withdraws the said notch f'' from under the pin 9, the latter slips on the cam and allows the bar C to be forced downward into its first position by the action of the spiral spring around the same. Each of the changeable devices, Figs. 5, 6, 7, 8, has its usual bifurcated end 10 connected by a downward bend, 11, to its opposite end; and for the purpose of allowing it to be readily withdrawn without removing the needle b' we cut a narrow slot, o , in the part 11. (See Figs. 1, 5, 6, 7, 8.)

We claim as our invention—

1. The open narrow slot o in the downward

slanting portion 11 of each of the changeable devices 5, 6, 7, 8, substantially as and for the purpose hereinbefore set forth.

2. The screw-nut 1, recesses c' c' , and shoulders 3 3, on the lower end of the pressure-bar, in combination with either of the detachable parts shown by Figs. 5, 6, 7; 8, when the said detachable parts 5, 6, 7, 8 have, respectively, the open narrow slot o in the downward slanting portion 11 thereof, substantially as and for the purpose hereinbefore set forth.

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Witnesses:

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