

No. 765,884.

PATENTED JULY 26, 1904.

G. J. DORMANDY.

PRESSER FOOT MECHANISM FOR SEWING MACHINES.

APPLICATION FILED SEPT. 9, 1901.

NO MODEL.

4 SHEETS—SHEET 1.

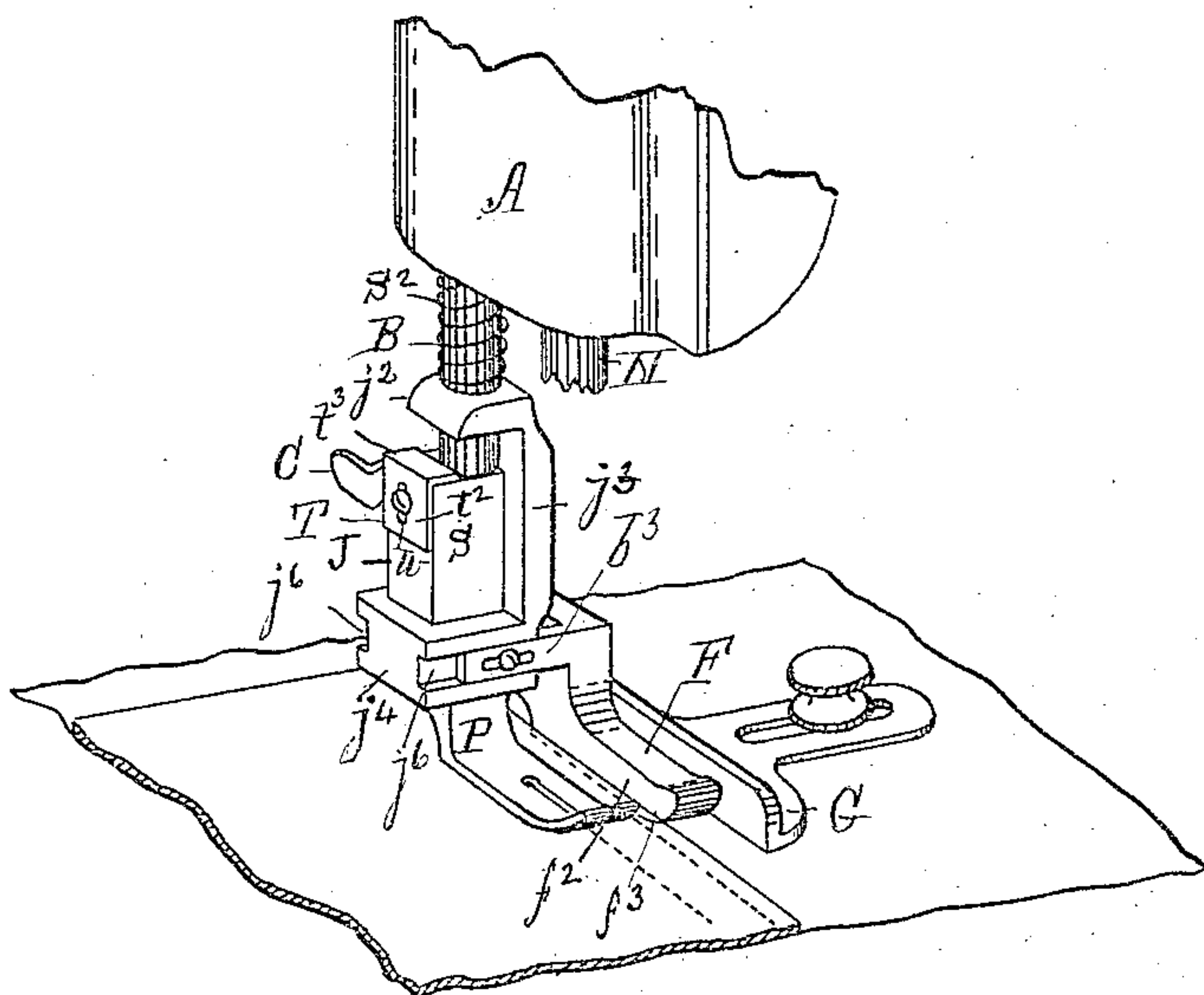
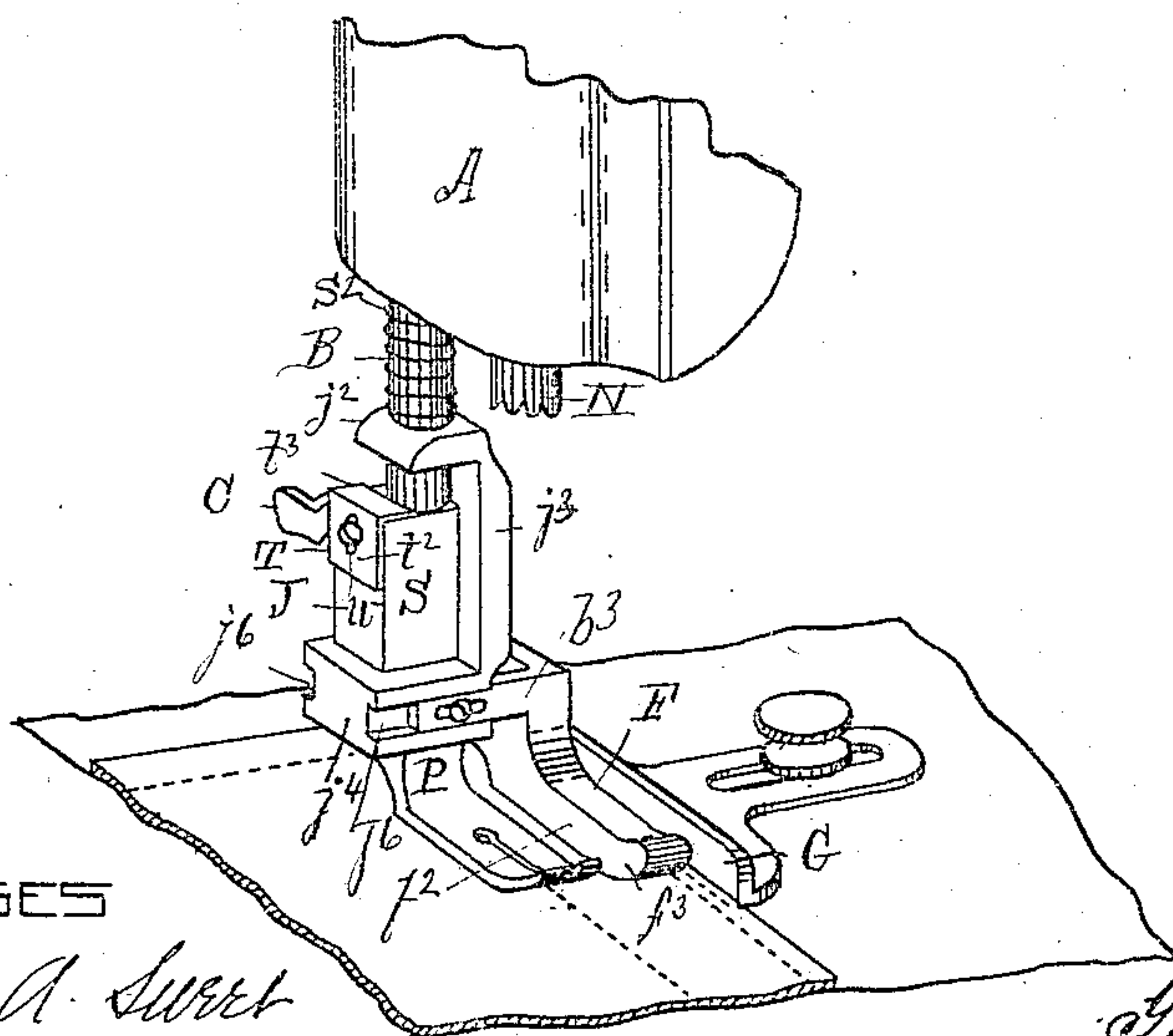


FIG 1



WITNESSES

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FIG 2

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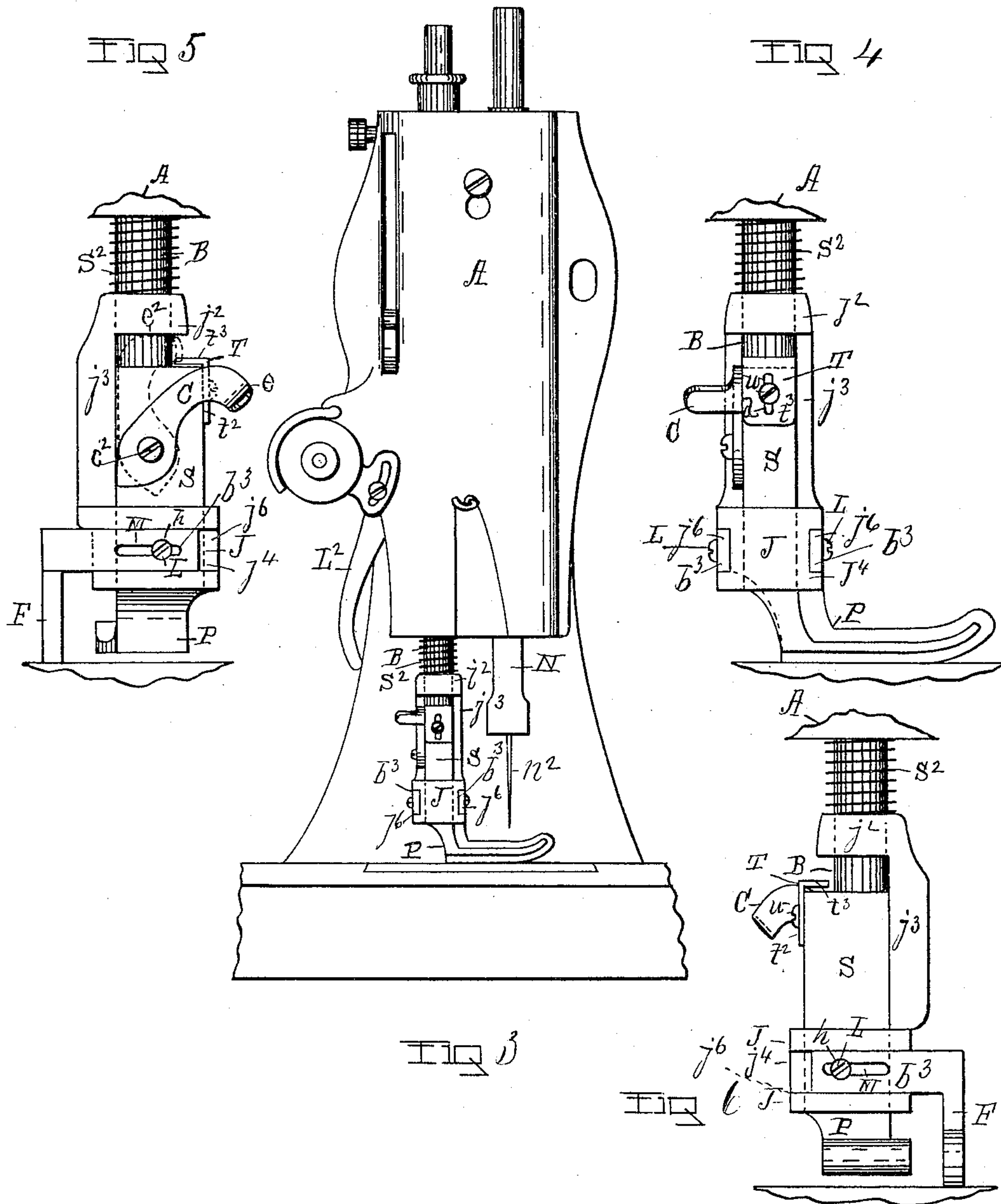
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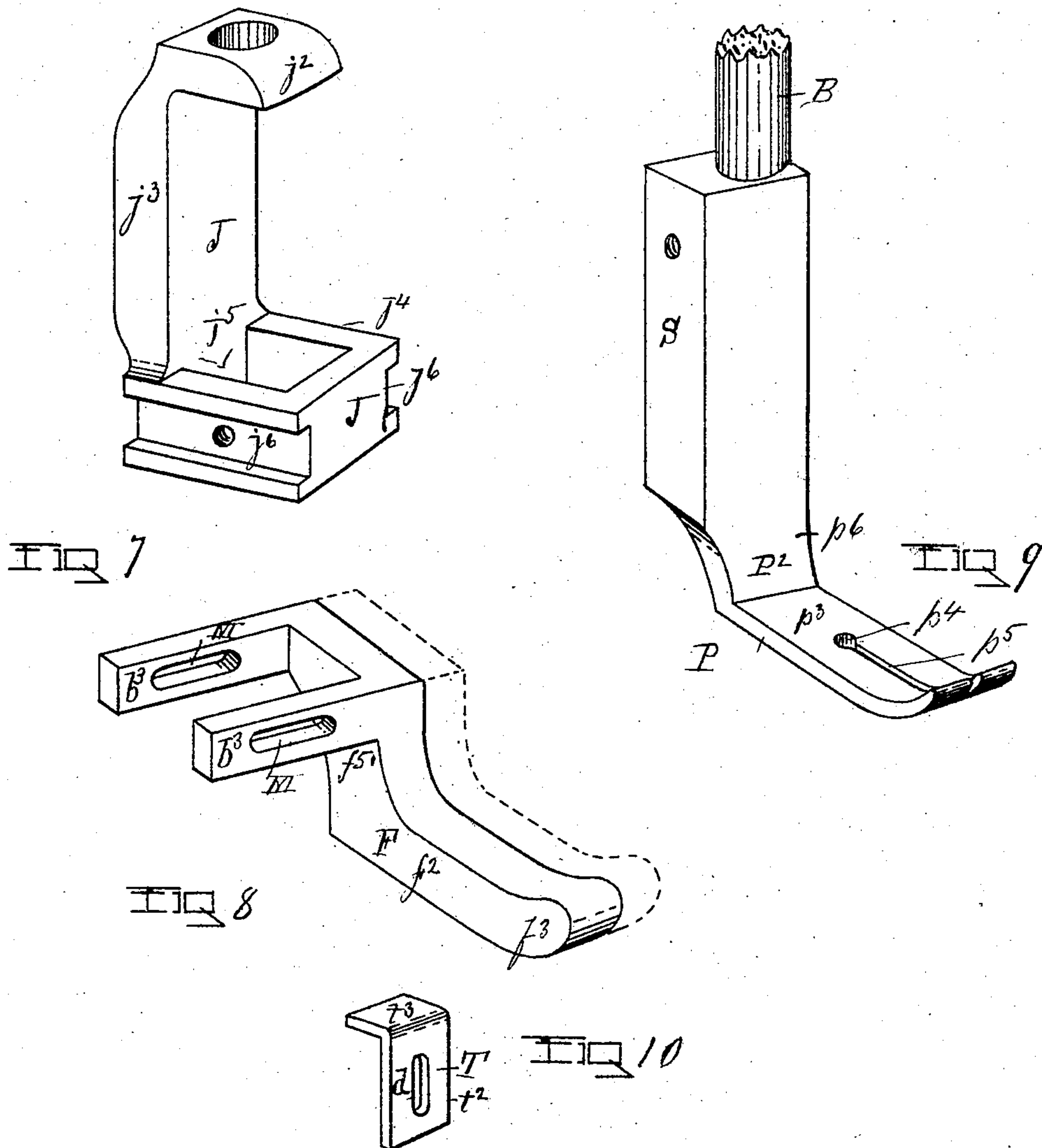
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4 SHEETS—SHEET 3.



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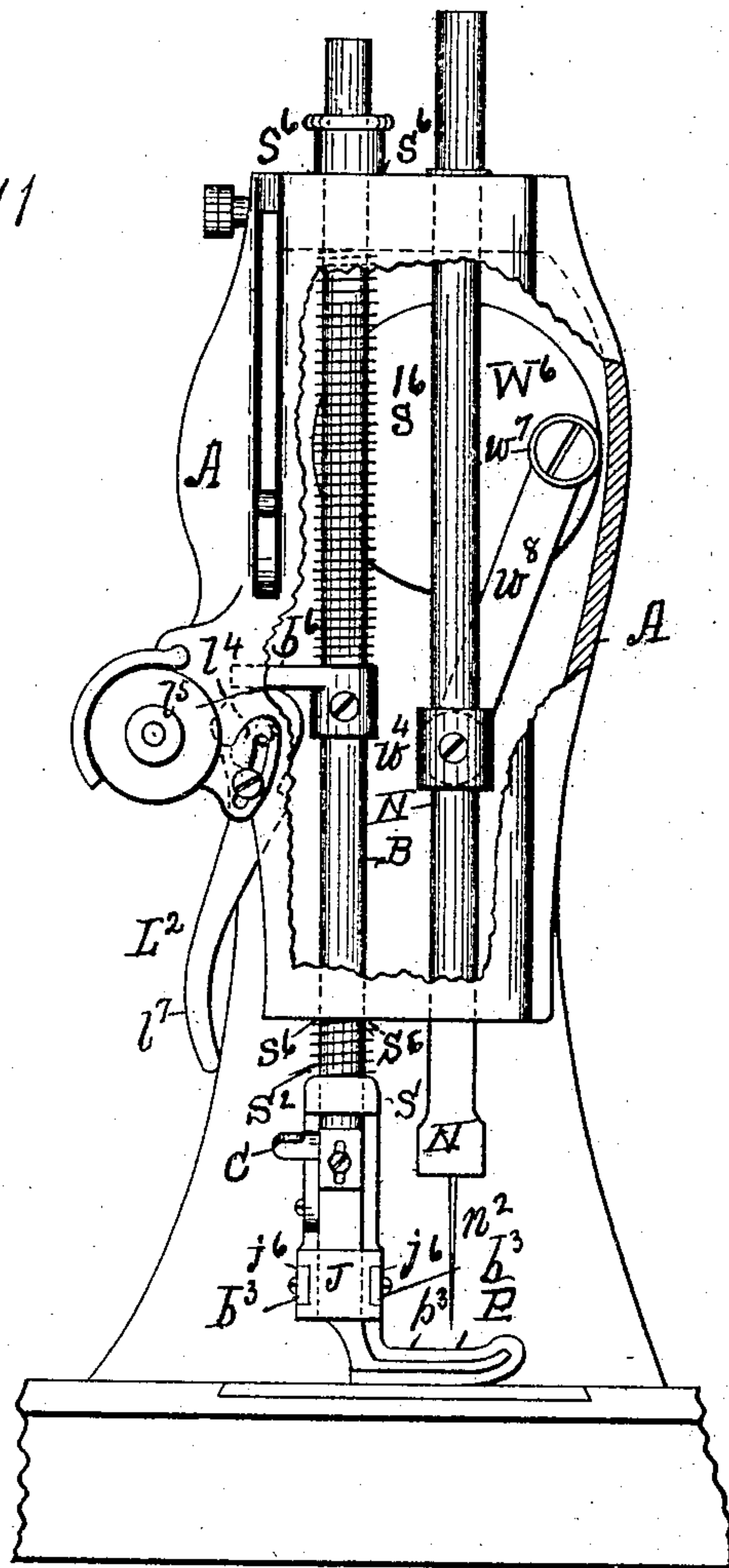
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NO MODEL.

4 SHEETS—SHEET 4.

FIG 11



WITNESSES

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UNITED STATES PATENT OFFICE.

GARRY J. DORMANDY, OF TROY, NEW YORK, ASSIGNOR OF ONE-HALF TO
UNITED SHIRT & COLLAR COMPANY, OF TROY, NEW YORK.

PRESSER-FOOT MECHANISM FOR SEWING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 765,884, dated July 26, 1904.

Application filed September 9, 1901. Serial No. 74,714. (No model.)

To all whom it may concern:

Be it known that I, GARRY J. DORMANDY, of the city of Troy, county of Rensselaer, and State of New York, have invented new and
5 useful Improvements in the Presser-Foot Mechanism of Sewing-Machines, of which the following is a specification.

My invention relates to improvements upon the presser-foot mechanism of sewing-machines, and more particularly to that class of
10 them in which a supplemental presser-foot is employed in connection with the presser-foot proper, it being the object and purpose of my invention and improvements to construct
15 the combined supplemental presser-foot and the presser-foot proper in such a manner that the latter will be free to automatically adjust itself vertically to the surface of the material being sewed independently of the supplement-
20 tal presser-foot and be operated to rise independently of the latter or in connection therewith. To accomplish these conditions of operation, a jacket is mounted upon the shank or bar of the presser-foot proper, in which
25 jacket the shank or bar can automatically adjust vertically, with the supplemental presser-foot slidably and horizontally connected adjustably to said jacket.

In sewing collars, cuffs, and other similar
30 apparel articles it often becomes desirable after stitching the edges of an article being sewed to run another line of stitching inside of that formed upon the edge and nearer to the horizontal center of the article, which op-
35 eration as heretofore employed required a change of the attachable and detachable parts of the machine and which operation can be done without this delay by using the supplemental foot of my machine as a gage for the
40 border or edge stitching and as a presser-foot for the stitching done in connection with the presser-foot proper.

In the stitching of a collar body and band and the connection of the latter to the former
45 the supplemental presser-foot of my invention becomes a very useful appliance in the fact that it adapts the same machine to perform both operations and in sequence.

Accompanying this specification to form a

part of it there are four plates of drawings, 50 containing eleven figures, illustrating the application of my invention, with the same designation of parts by letter reference used in all of them.

Of the illustrations, Figure 1 is a perspec- 55 tive of that part of the front end of a sewing-machine arm in which the presser-foot proper and the needle-bar are located and operated, my improvement being shown as applied thereto and as having the supplemental foot 60 thereof employed as a gage. Fig. 2 is a perspective of the same parts that are illustrated at Fig. 1, but shown with the supplemental foot used as a presser-foot. Fig. 3 is an end
65 elevation of the machine. Fig. 4 is an enlarged front end elevation of the presser-foot proper, the vertical bar on which it is operated, and the mechanism by which the supplemental foot is connected thereto. Fig. 5 is
70 an elevation of the rear of the presser-foot proper, the supplemental foot, and its connection, illustrating a pivoted cam whereby the jacket in which the supplemental foot is mounted, as shown by a dotted line, is caused to en-
75 gage with the stock of the presser-foot proper, so as to rise together, with the supplemental foot shown as resting upon the table. Fig. 6 is a front view of the parts shown at Fig. 5. Fig. 7 is a perspective of the jacket in which the supplemental foot is mounted illustrated 80 as detached. Fig. 8 is a perspective of the supplemental foot shown as detached, with its position when moved laterally on its mounting in the jacket designated by a dotted line. Fig. 9 is a perspective of the presser-foot 85 proper shown as detached. Fig. 10 is a perspective of a stop-plate that is adapted to adjustably connect to the stock with which the vertical bar of the presser-foot proper is mounted. Fig. 11 is a front end view of a 90 sewing-machine containing my invention with the mechanism operating the presser-foot proper and the supplemental presser-foot when connected to rise and descend together, this mechanism being shown in part in full 95 lines and in part by dotted lines, with the front wall of the machine-arm in which located illustrated as cut away in part.

its connected presser-foot proper, together with the supplemental foot, at the same time this cam-lever is swung inwardly on its pivotal connection until its upper end e is in contact engagement with the under side of the jacket-top j^2 at c^3 , with the parts appearing as shown by the dotted line 1 at Fig. 5. The letter G designates a gage that is adjustably connected to the table-plate of the machine by means of thumb-screw U and the slot V, formed in the gage-plate. Thus constructed when the lever L^2 is operated to raise the bar B and the presser-foot proper, as before described, it can be so actuated as to raise the latter independently of the jacket and the supplemental presser-foot, and with the cam-lever C of the stock S actuated to engage with the top j^2 of the jacket the latter, the supplemental presser-foot, and presser-foot proper may be raised together, with the cam-lever C in the position shown by the dotted line at Fig. 5. With the supplemental foot thus free to adjust on the stock of the presser-foot proper it is relieved from the upthrow tendency given to the latter by the feed mechanism, and this uniformly steady position of the supplemental presser-foot is manifested equally well when it is used as a gage, thus differing materially from the older trip-gages, which are attached to the presser-foot proper and subject to the same upthrow tendency and vibration produced by the feed mechanism.

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

1. In a sewing-machine, the combination, with the presser-foot proper, the bar thereof provided with a stock supporting the presser-foot, and means for raising or lowering said parts, of the jacket vertically movable upon the stock, a horizontally-arranged supplemental presser-foot adjustably connected to said jacket to move laterally, and a locking device mounted on the stock for connecting the presser-foot proper and the supplemental presser-foot to rise together, for substantially the purposes set forth.

2. In a sewing-machine, the combination with a presser-foot proper mounted upon the lower end of a bar vertically movable in the depending arm of the sewing-machine, and provided with means whereby it may be raised and lowered, of a stock which is rectangular in cross-section mounted upon said bar to move with it, a jacket having an overhanging top provided with a vertical passage for said bar, and the jacket-body having a free rectangular passage for said stock, a supplemental horizontally-arranged presser-foot adjustably connected to one of the jacket sides, a spiral spring encircling said bar between the top of the jacket and the bottom of the sewing-machine arm, whereby said jacket and supplemental presser-foot will bear steadily upon work in a desired alinement independently of

the vibration of the presser-foot proper, for substantially the purposes set forth.

3. In a sewing-machine, the combination with a presser-foot proper mounted upon the lower end of a supporting-bar vertically movable in the depending arm of the machine, and provided with means whereby said shank or bar will actuate the presser-foot proper to rise and descend, of a stock secured upon said shank or bar, a jacket provided with an overhanging top having a vertical passage for the shank or bar and the jacket-body having a vertical passage for the stock and slidably mounted thereon, a horizontally-arranged supplemental presser-foot adjustably connected to said jacket, a pivoted cam-lever mounted upon said jacket, whereby the latter, the supplemental presser-foot, and the presser-foot proper may be operated to rise together, when adjusting the work to be sewed, for substantially the purposes set forth.

4. In a sewing-machine, the combination, with the arm, the presser-foot carried by the arm and provided with a needle-passage, and the work-table, of a gage for the material to be sewed, said gage being adapted to be fixed in respect to the table, and a member also carried by the arm and located intermediate said gage and the said presser-foot, the said member constituting a combined gage and presser-foot, supplemental to the main presser-foot, for substantially the purposes set forth.

5. In a sewing-machine, the combination, with the arm, the presser-foot carried by the arm and provided with a needle-passage, and the work-table, of a gage for the material to be sewed, means for adjustably securing said gage to the table, a vertically-movable member also carried by said arm, and intermediate the said presser-foot and said gage, and means for laterally adjusting the same, said member constituting a combined gage and presser-foot, supplemental to the main presser-foot, for substantially the purposes set forth.

6. In a sewing-machine, the combination, with the arm, the presser-foot carried by the arm and provided with a needle-passage and work-table, of a gage for the material to be sewed, said gage being adapted to be fixed in respect to the table, and a supplemental presser-foot carried also by the arm, and constructed and fitted to move both upwardly and laterally, for substantially the purposes set forth.

7. In a sewing-machine, the combination with the work-table and presser-foot provided with a needle-passage, of a gage for the material to be sewed, said gage being adjustably fitted to the table, and a laterally-adjustable presser-foot supplemental to the presser-foot proper and having loose connection with the latter, the said supplemental presser-foot adapted also to serve as a gage, whereby two seams may be formed on a single machine at different distances from the edge and without

