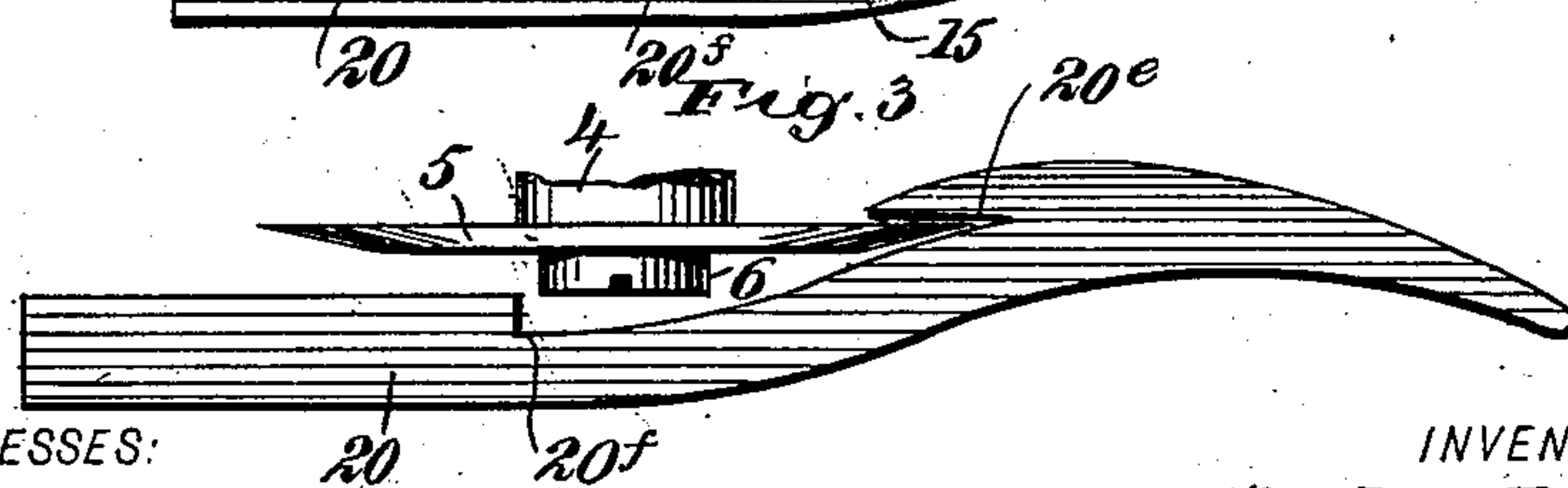
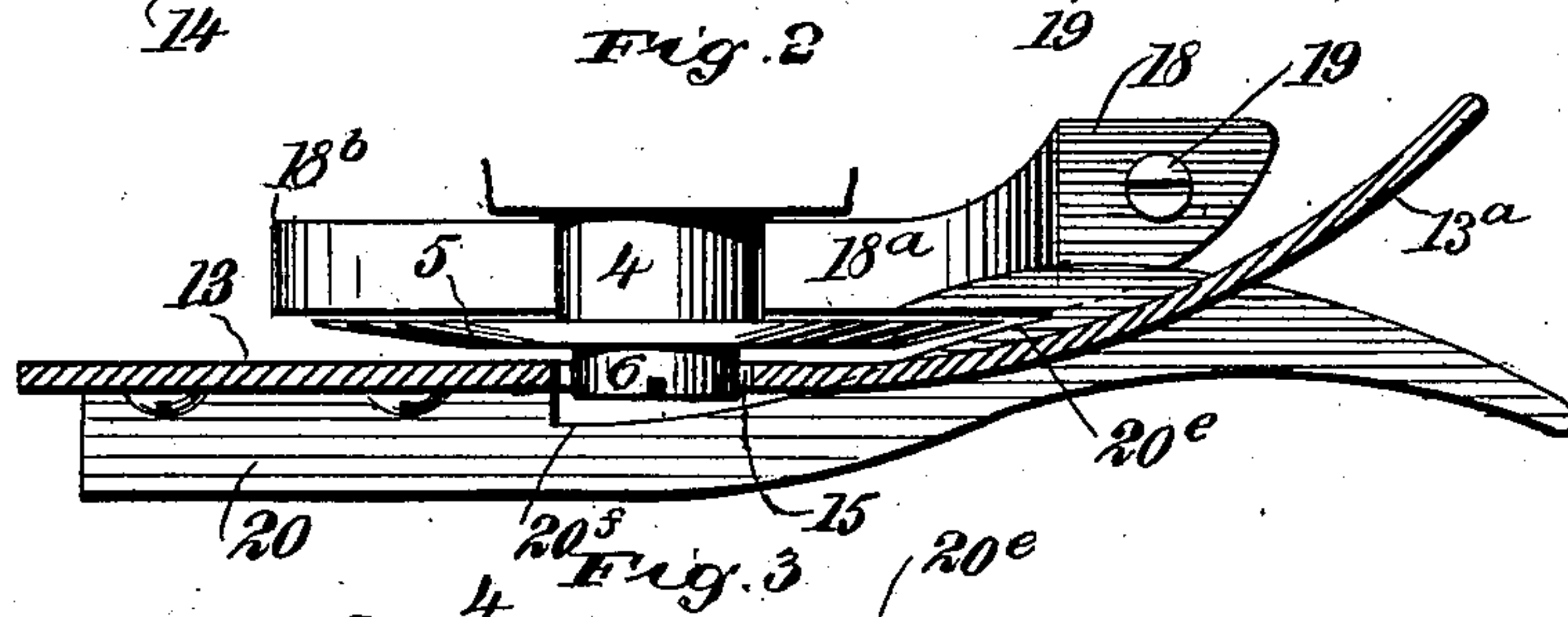
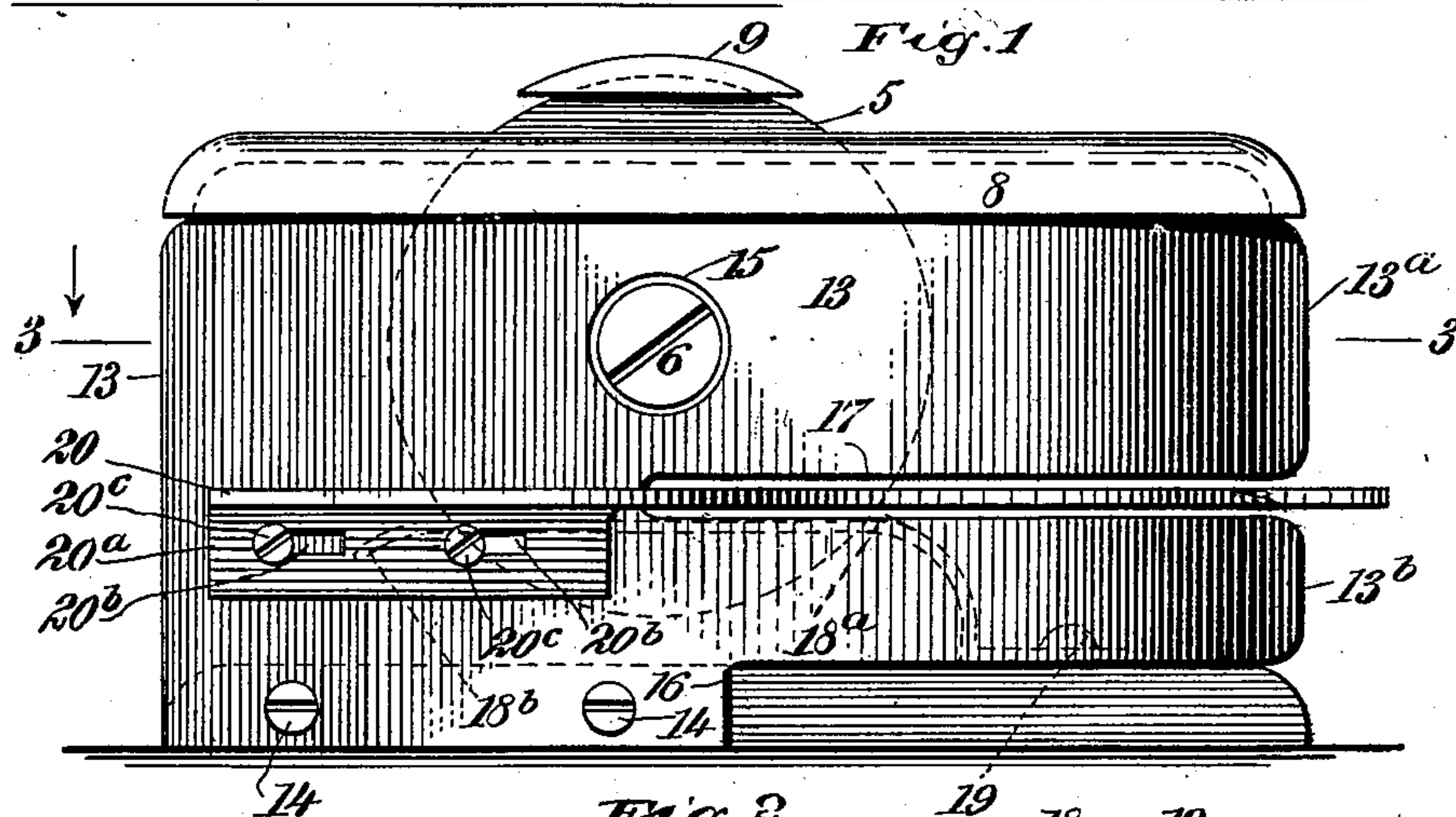
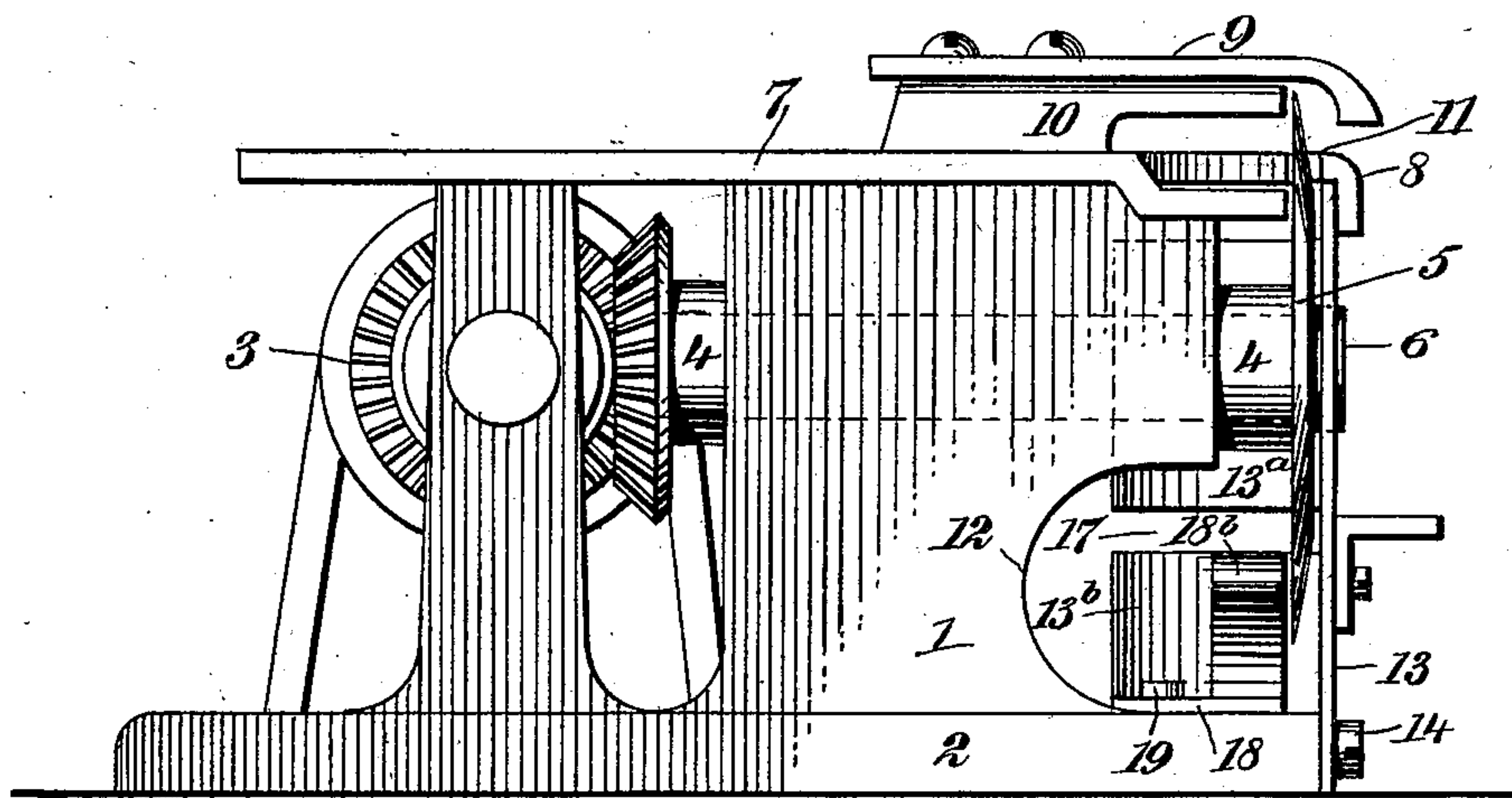


C. B. CORWIN.
BACK SEAM TRIMMER.

APPLICATION FILED DEC. 27, 1902.

NO MODEL.

2 SHEETS—SHEET 1.



WITNESSES:

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2 SHEETS—SHEET 2.

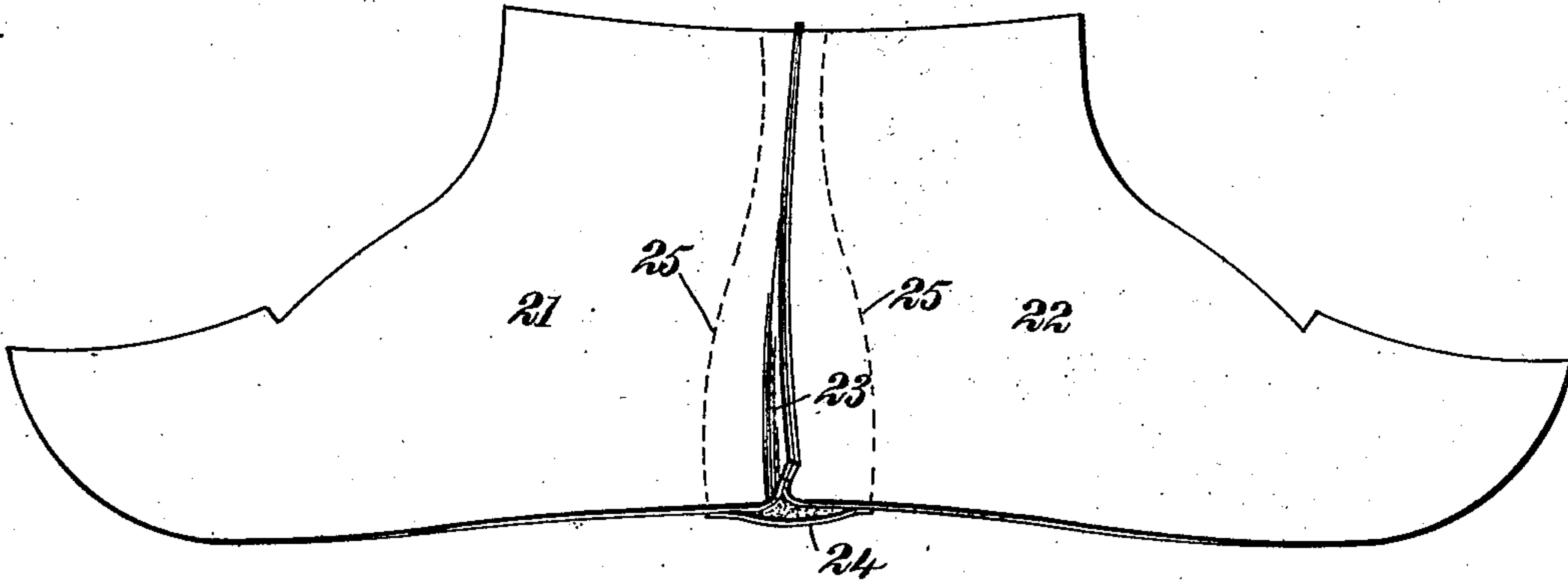


Fig. 5.

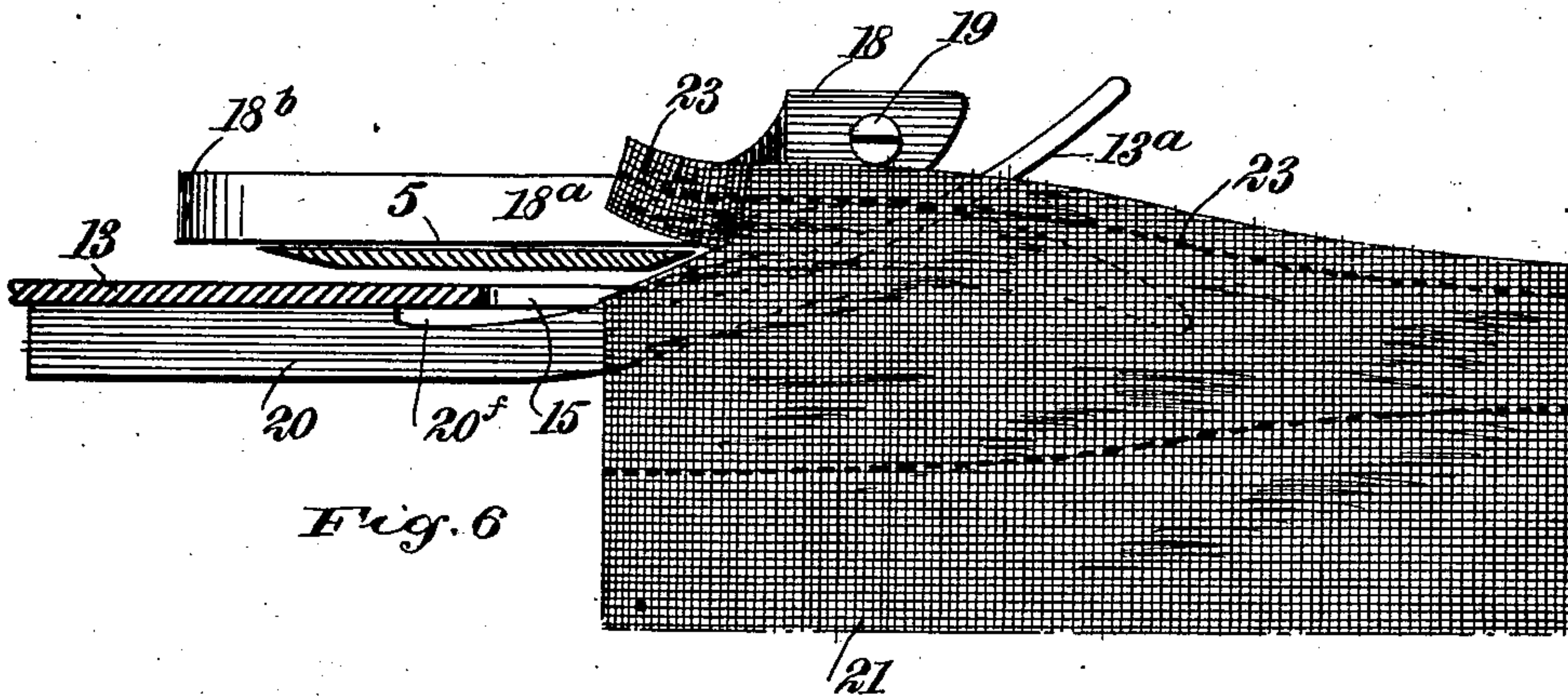


Fig. 6

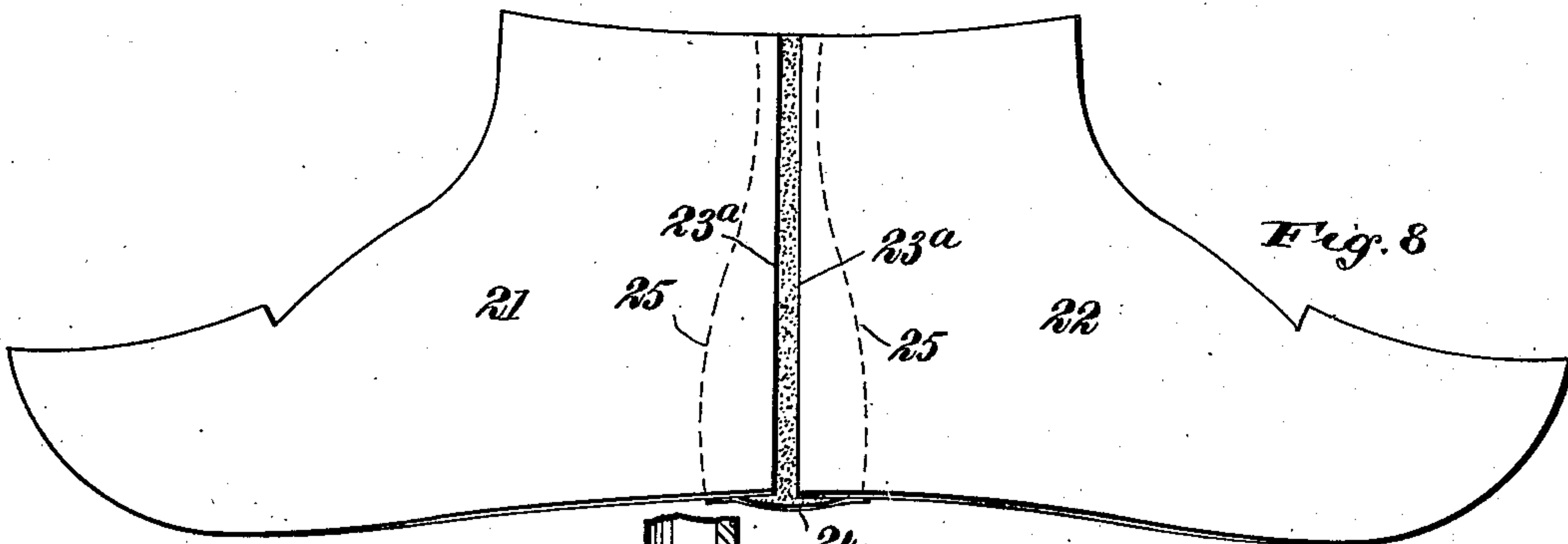


Fig. 8

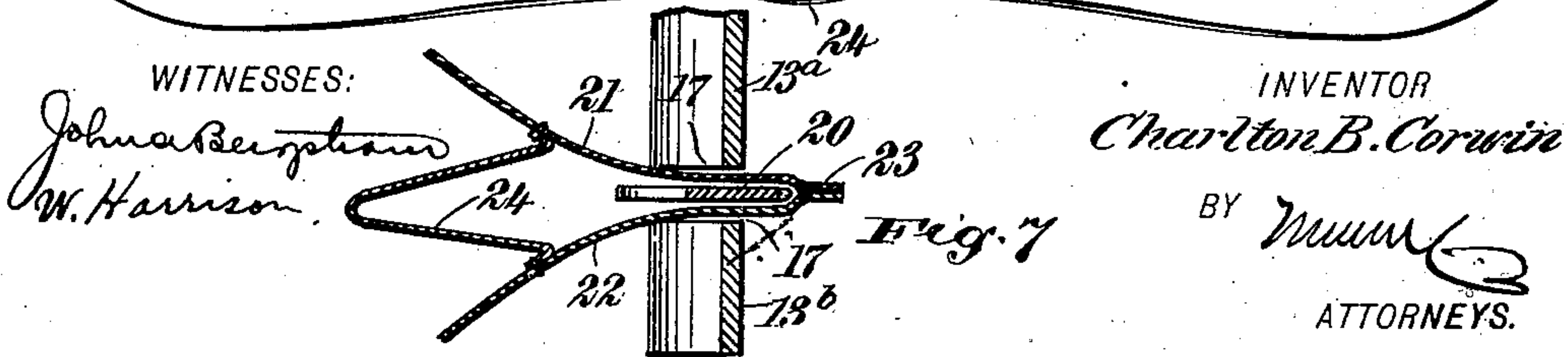


Fig. 7

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UNITED STATES PATENT OFFICE.

CHARLTON B. CORWIN, OF JEFFERSON CITY, MISSOURI.

BACK-SEAM TRIMMER.

SPECIFICATION forming part of Letters Patent No. 723,585, dated March 24, 1903.

Application filed December 27, 1902. Serial No. 136,798. (No model.)

To all whom it may concern:

Be it known that I, CHARLTON B. CORWIN, a citizen of the United States, and a resident of Jefferson City, in the county of Cole and State of Missouri, have invented a new and Improved Back-Seam Trimmer, of which the following is a full, clear, and exact description.

My invention relates to trimming-machines used in the manufacture of shoes, and relates more particularly to a trimmer for severing the seam of the backstay.

My invention is peculiarly adaptable and is preferably intended for use in connection with the shoe-lining trimmer covered by Letters Patent No. 707,906, issued to me on August 26, 1902. It is not limited, however, to use with the machine referred to, but may be employed advantageously in many other relations independently thereof. In case the present invention is used in connection with the invention covered by the Letters Patent above mentioned substantially the same framework, gearing, and knife may be employed.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the figures.

Figure 1 is a side elevation of a shoe-lining trimmer equipped with my present invention. Fig. 2 is a front elevation of the same. Fig. 3 is a section on the line 3-3 of Fig. 2 looking in the direction of the arrow. Fig. 4 is a plan view of the seam-guide and the revoluble cutter, other parts being removed for the sake of clearness. Fig. 5 is a plan view of a pair of lining-quarters with the back seam ready to be severed. Fig. 6 is a sectional plan view showing the seam as being severed. Fig. 7 is a section taken at right angles to Fig. 6 and showing how the seam-guide carries the seam through the slot in the shield, and Fig. 8 shows the lining-quarters after the seam is severed.

A frame 1 is mounted upon a base 2 and carries gearing 3 for rotating a shaft 4. Rigidly secured upon this shaft is a revoluble cutter 5, having, preferably, the form of a disk provided with a beveled edge and secured in position by means of a knife-screw

6. A table 7 is mounted upon the framework and is provided with a downturned edge 8, a spacing-block 10, and a gage 9, the spacing-block and the gage being of the kind described in my Letters Patent above mentioned.

A slot 11 is provided in the edge 8 of the table 7, through which slot the knife or cutter 5 partially extends, as indicated in Fig. 1. A shield 13 is provided with spring-tongue members 13^a 13^b integral therewith and is held in position by means of screws 14, secured at the bottom of the shield, the top of the shield being secured to the downturned member 8. The upper portion of the shield is provided with an aperture 15 for the purpose of admitting the knife-screw 6, the lower portion of the shield being provided with a mutilation 16, as indicated more particularly in Fig. 2. The shield 13 is further provided with a central slot 17, as indicated more particularly in Fig. 2.

A supporting-guide 18 is provided with a flattened portion 18^a, normally parallel with the slot 17, and with a curved end 18^b, as indicated by dotted lines in Fig. 2. The purpose of this guide is to direct the lining-quarters in their passage through the slot 17 and against the edge of the revoluble cutter. The lining-quarters to some extent rest upon the portion 18^a of the supporting-guide during this operation. This supporting-guide prevents the under quarter from lagging upon the edge of the cutter and insures a smooth and definite cut. In other words, the inclined edge of the cutter finishes severing the upper quarter a moment before it does the larger one, thus leaving uncut a small width of trimming which tends to follow the movable edge of the cutter, and the supporting-guide serves to prevent this undesirable effect.

The seam-guide is shown at 20 and is provided with a depending apron 20^a, having slots 20^b, which are engaged by the adjusting-screws 20^c, as indicated more particularly in Fig. 2. The seam-guide is preferably in the shape of a flattened horn, as indicated more particularly in Fig. 3, and is provided with a substantially V-shaped slot or mutilation 20^e for admitting the beveled edge of

the cutter 5. The seam-guide is further provided with a mutilation 20^f to give proper clearance to the trimmed edges of the linings.

The lining-quarters constituting the stock 5 to be operated upon are shown in Fig. 5 and consist of the members 21 22, united together by a seam 23 and by a backstay 24 and secured to the backstay by seams 25 in the manner well understood in this art. The 10 appearance of the lining-quarters after the seam is severed is indicated in Fig. 8, the edges 23^a showing the removal of the seam.

My invention is used as follows: The apron 20^a being properly adjusted by means of the 15 screws 20^c and the revoluble cutter 5 being in motion, the operator grasps a pair of lining-quarters and places them in the position indicated in Fig. 7, so that the members 21 22 may be fitted over the outer or free end of 20 the seam-guide 20. The stock is next forced toward the cutter, so as to follow the contour of the shield 13, the seam-guide serving to carry the seam 23 through the slot 17 and to direct the same against the edge of the revoluble cutter. It will be seen that as the 25 cutter can only operate upon the seam 23, as indicated in Fig. 6, there will be no reasonable probability of any other part being cut.

It will be noted, too, that the feeding of the 30 stock does not necessitate the fingers of the operator being placed in close proximity to the sharp edge of the cutter. The seam-guide 20 is adjustable relatively to the cutter 5, because if the apron 20^a be moved to the right 35 or to the left and adjusted by means of the screws 20^c the substantially V-shaped slot 20^c must approach toward or recede from the beveled edge of the cutter 5. This adjustment of the seam-guide is also desirable for 40 placing the same in slightly-different positions relatively to the slot 17.

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

45 1. A back-seam trimmer, comprising a frame, a revoluble cutter mounted thereon, a shield disposed adjacent to said cutter and provided with a slot, and a seam-guide disposed adjacent to said cutter and partially 50 extending into said slot, for the purpose of directing against said cutter the seam to be severed.

2. A back-seam trimmer, comprising a frame, a revoluble cutter mounted thereon, 55 a shield disposed adjacent to said cutter and provided with a slot, and a seam-guide mounted upon said shield and partially extending into said slot, for the purpose of directing against said cutter the seam to be severed.

60 3. A back-seam trimmer, comprising a frame, a revoluble cutter mounted thereon, a shield disposed adjacent to said cutter and provided with a slot, a seam-guide disposed adjacent to said cutter and partially extending 65 into said slot, for the purpose of directing against said cutter the seam to be severed,

and means, controllable at will, for adjusting said seam-guide relatively to said cutter.

4. A back-seam trimmer, comprising a frame, a revoluble cutter mounted thereon, 70 a shield disposed adjacent to said cutter and provided with a slot, and a seam-guide mounted upon said shield and partially extending through said slot and into proximity to said cutter. 75

5. A back-seam trimmer, comprising a frame, a revoluble cutter mounted thereon, a shield disposed adjacent to said cutter and provided with a slot, a seam-guide mounted 80 upon said shield and partially extending through said slot toward said cutter, and a supporting-guide mounted upon said frame and provided with a surface disposed at right angles to the general plane of said cutter and substantially parallel with said slot. 85

6. A back-seam trimmer, comprising a cutter, a shield disposed adjacent thereto and provided with tongues, and a seam-guide 90 mounted upon said shield and partially extending between said tongues and into proximity to said cutter. 95

7. A back-seam trimmer, comprising a cutter, a shield disposed adjacent thereto and provided with a slot, and a member mounted 95 upon said shield and partially extending through said slot, said member being provided with a mutilation for admitting the operating edge of said cutter.

8. A back-seam trimmer, comprising a cutter, a shield disposed adjacent thereto, and 100 provided with a slot, a member mounted upon said shield and partially extending through said slot, said member being provided with a mutilation for admitting the operating edge of said cutter, and means for adjusting said 105 member relatively to said shield.

9. A back-seam trimmer, comprising a cutter, a shield disposed adjacent thereto and provided with a slot, and a seam-guide 110 mounted upon said shield and extending partially through said slot, said seam-guide having substantially the form of a flattened horn and being provided with a slot for admitting a portion of said cutter.

10. A back-seam trimmer, comprising a cutter, a shield disposed adjacent thereto and 115 provided with a slot, a seam-guide mounted upon said shield and extending partially into said slot, said seam-guide having substantially the form of a flattened horn and being 120 provided with a slot for admitting a portion of said cutter, and means for adjusting said seam-guide relatively to said cutter.

11. A back-seam trimmer, comprising a cutter, a shield disposed adjacent thereto, and 125 provided with a slot, a supporting-guide mounted adjacent to said cutter and substantially in alinement with one edge of said slot, and a seam-guide partially extending through 130 said slot and into proximity to said supporting-guide and said cutter.

12. A back-seam trimmer, comprising a cut-

ter, a shield disposed adjacent thereto and provided with a slot, a supporting-guide disposed adjacent to said cutter and substantially in alinement with a portion of said slot, 5 a seam-guide partially extending through said slot and into proximity to said supporting-guide, and means for adjusting said seam-guide relatively to said supporting-guide.

13. A back-seam trimmer, comprising a 10 frame, a cutter having the form of a revoluble disk provided with a beveled edge, a shield disposed substantially parallel with said cutter and provided with a slot, a supporting-guide having a surface substantially 15 the form of a flattened horn and partially extending through said slot and into proximity to said cutter and to the supporting-guide, said supporting-guide being provided with a substantially V-shaped slot normally disposed 20 in close proximity to said beveled edge of said cutter.

14. A back-seam trimmer, comprising a

frame, a cutter having the form of a revoluble disk provided with a beveled edge, a shield disposed substantially parallel with 25 said cutter and provided with a slot, a supporting-guide having a surface substantially parallel with said slot, a seam-guide having substantially the form of a flattened horn and partially extending through said slot and into 30 proximity to said cutter and to the supporting-guide, said supporting-guide being provided with a substantially V-shaped slot normally disposed in close proximity to said beveled edge of said cutter, and means, control- 35 lable at will, for adjusting said seam-guide relatively to said slot.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

CHARLTON B. CORWIN.

Witnesses:

NELSON C. BURCH,
JOHN E. FISH.