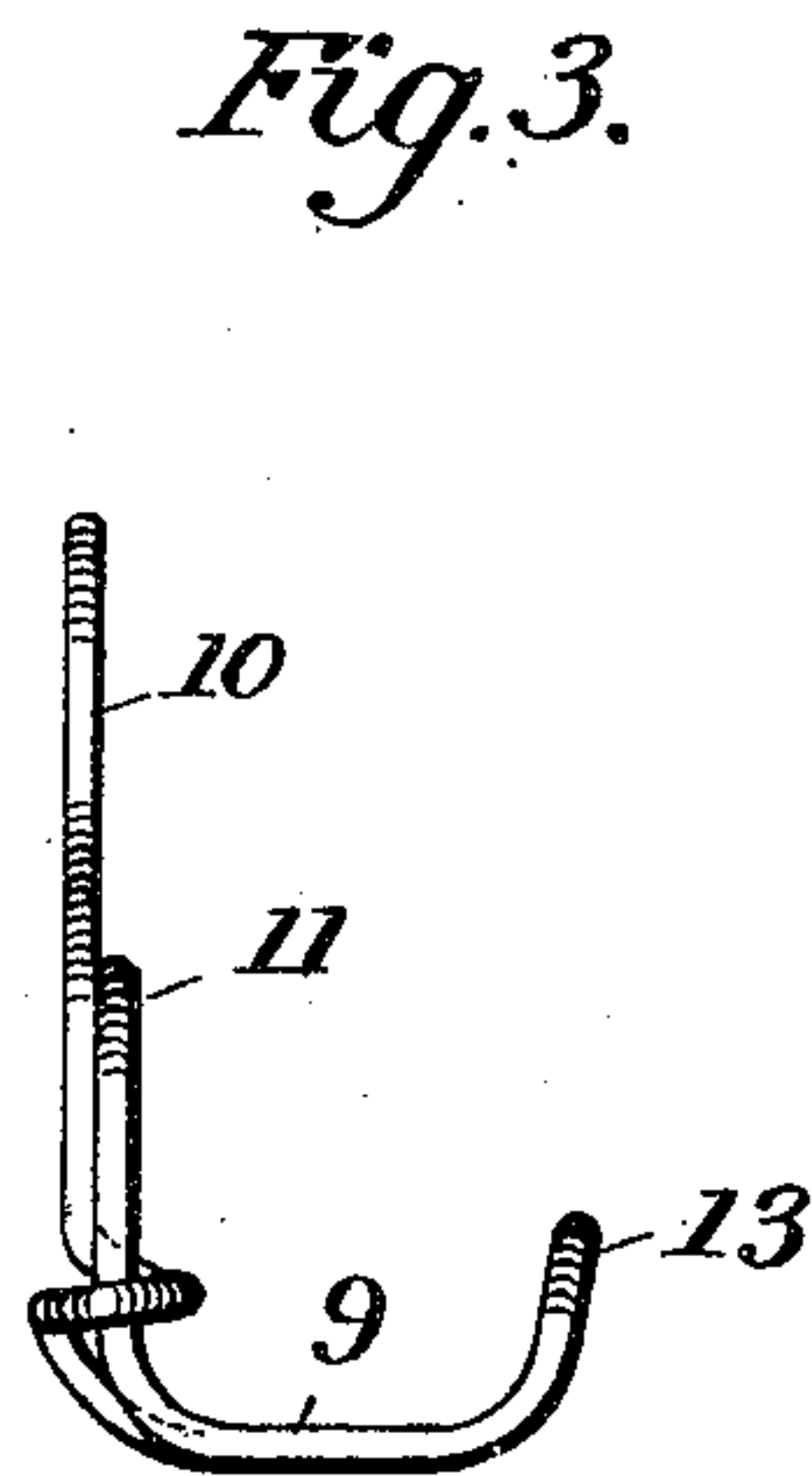
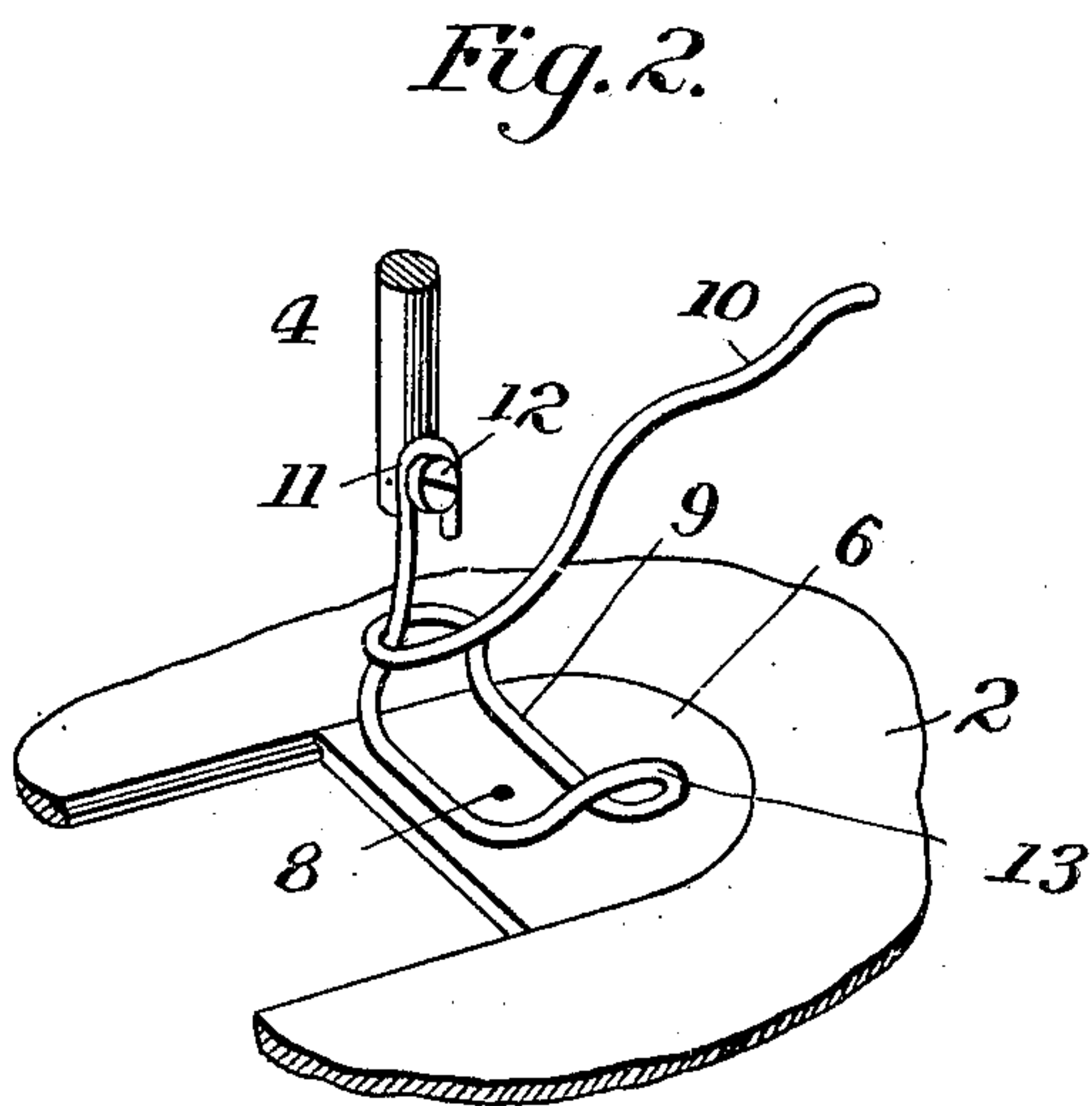
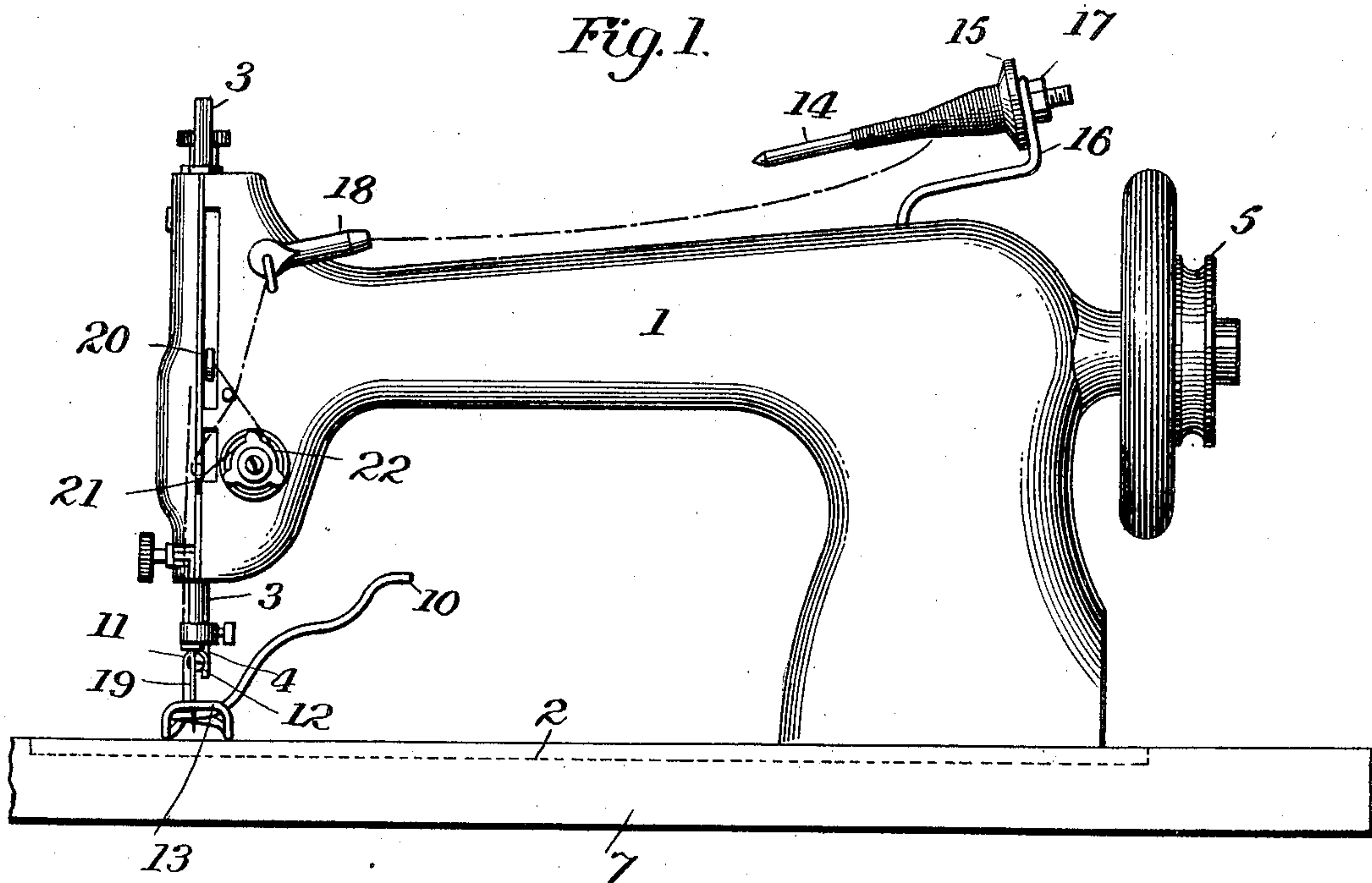


No. 827,737.

PATENTED AUG. 7, 1906.

G. W. LANKFORD.
PRESSER FOOT FOR EMBROIDERING MACHINES.
APPLICATION FILED OCT. 3, 1904.



Witnesses
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UNITED STATES PATENT OFFICE.

GEORGE W. LANKFORD, OF SPRINGFIELD, MISSOURI, ASSIGNOR TO
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PRESSER-FOOT FOR EMBROIDERING-MACHINES.

No. 827,737.

Specification of Letters Patent.

Patented Aug. 7, 1906.

Application filed October 3, 1904. Serial No. 227,027.

To all whom it may concern:

Be it known that I, GEORGE W. LANKFORD, a citizen of the United States, residing at Springfield, Greene county, State of Missouri, have invented certain new and useful Improvements in Presser-Foot for Embroidering-Machines, of which the following is a specification.

This invention relates to improvements in machines for embroidering, and particularly for making fancy work of the character known as "overlain."

The invention is illustrated in the accompanying drawings, in which—

Figure 1 is a side view of an embroidering-machine constructed in accordance with the present invention. Fig. 2 is a detail perspective view, on an enlarged scale, of the presser-foot and needle-guide plate. Fig. 3 is a side elevation of the presser-foot.

Referring to the drawings, in the several figures of which like reference characters designate corresponding parts, it will be seen that the machine includes a frame or standard 1, which may be of any suitable or well-known form. Said frame is mounted on a base 2 and constitutes the support for a vertically-reciprocating needle-bar 3 and presser-foot bar 4, the former of which is connected with suitable driving mechanism mounted in the said frame and adapted to be actuated from a driving-pulley 5. As the driving mechanism, needle-bar, and frame may be of any well-known construction, it will be unnecessary to illustrate or describe such parts in detail.

The presser-foot bar 4, unlike the corresponding bar of sewing-machines as commonly constructed, is actuated solely by gravity, no spring or springs being employed to normally press the foot carried at the lower end of said bar against the plate 6 in the base 2, over which said presser-foot is arranged.

It will be noticed that the base-plate 2, to which the standard or frame 1 is directly connected, is mounted in the usual table-top 7 in such manner that its upper surface is flush with the upper surface of the top of the supporting-table and that the plate 6, having the aperture 8 for the passage of the needle, is provided with a perfectly-smooth upper surface, the movement of the fabric upon which the work is done beneath the needle being

effected by the operator and not by any automatic feeding mechanism, as is customary in sewing-machines.

The presser-foot at the lower end of the bar 4 is provided at its lower end with a horizontally-projecting section having a relatively large opening formed therein, through which the needle reciprocates, and above said horizontally-extending portion is a laterally-projecting arm, by means of which said foot and the bar 4, to which it is connected, may be moved vertically when desired.

As shown, the presser-foot is formed from a single piece of wire bent upon itself to provide a horizontally-projecting section 9 and the laterally-extending arm 10, the upper end of the foot being formed into an eye or loop 11, through which passes a screw 12 for connecting the foot to the bar 4. As shown, the end of the horizontal portion of the foot farthest from the bar 4 is preferably bent upwardly, as at 13, so that said foot offers no obstruction to the entrance of fabric between itself and the plate 6.

The embroidering material is wound in cop form upon a spindle 14 against a cone-like end or head 15. The spindle 14 is of such length as to project beyond both sides of said head 15 and the end thereof opposite the cop is threaded and adapted to extend through a suitable eye formed in an arm 16, attached to the machine-frame 1. By means of a nut 17 the said spindle and cop are detachably connected to the arm 16. As shown, the parts are so arranged that the spindle 14 of the embroidery-cop extends longitudinally of the machine and is inclined downwardly toward the needle end of the machine to facilitate the unwinding of the embroidery material. Near the forward end of the machine in substantial alinement with the spindle 14 is arranged a tubular guide 8, through which the embroidery material passes, such tubular guide forming a relatively long support for said material and preventing its bending or curling in an undesirable manner. Between said guide 18 and the needle 19, which is secured to the lower end of the vertically-reciprocating needle-bar 3, the embroidery material passes through suitable guides 20 21 and about a tension device 22, as shown in the drawings.

In using the machine the fabric to be deco-

rated is secured in or on an embroidery hoop or ring like that employed for handwork and brought into proper position beneath the needle for embroidering the design or pattern stamped thereon. The presser-foot is readily raised by the handle or arm 10 to permit the passage of the fabric and its supporting hoop or ring, and said foot rests lightly on the upper surface of the fabric. The machine being started, the operator moves the fabric-supporting hoop or ring as is required to cause the needle to produce stitches at the desired points. The embroidery material is guided from the supply-cop in such a manner that it is prevented from looping around any projection on the machine-frame or taking such a position as to interfere with its being fed freely to the needle.

Having thus described the invention, what is claimed is—

The herein-described presser-foot for embroidering-machines formed from a single wire bent to provide two parallel members and an intermediate upwardly-curved member, one end of the wire being adapted to be attached to a presser-foot bar and the other being deflected to serve as a handle for raising the presser-foot.

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

GEORGE W. LANKFORD.

Witnesses:

THOMAS H. GIDEON,
T. J. GIDEON.