

(No Model.)

W. F. BEARDSLEE.
WELT GAGE FOR SEWING MACHINES.

No. 431,137.

Patented July 1, 1890.

Fig. 1.

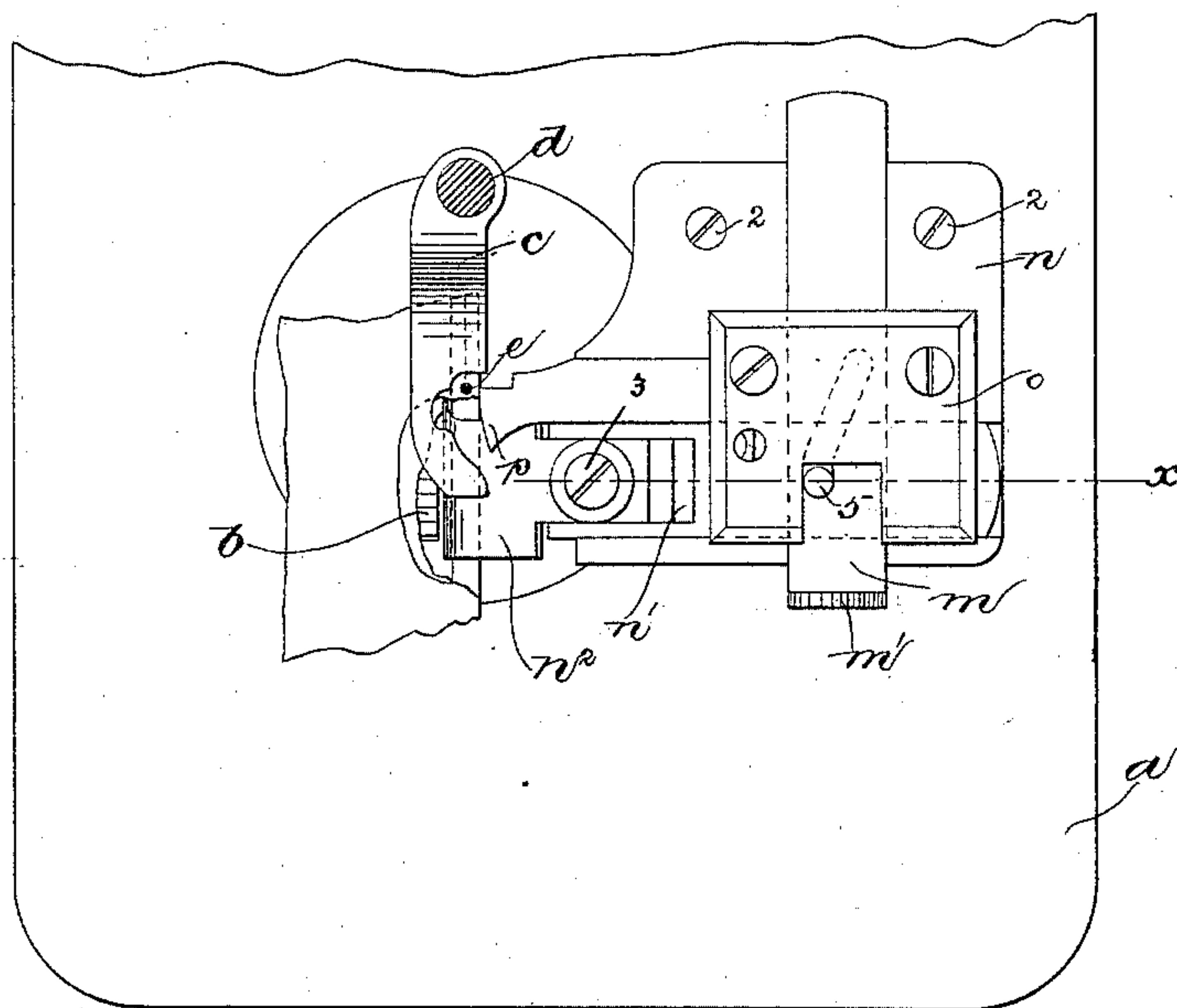


Fig. 2.

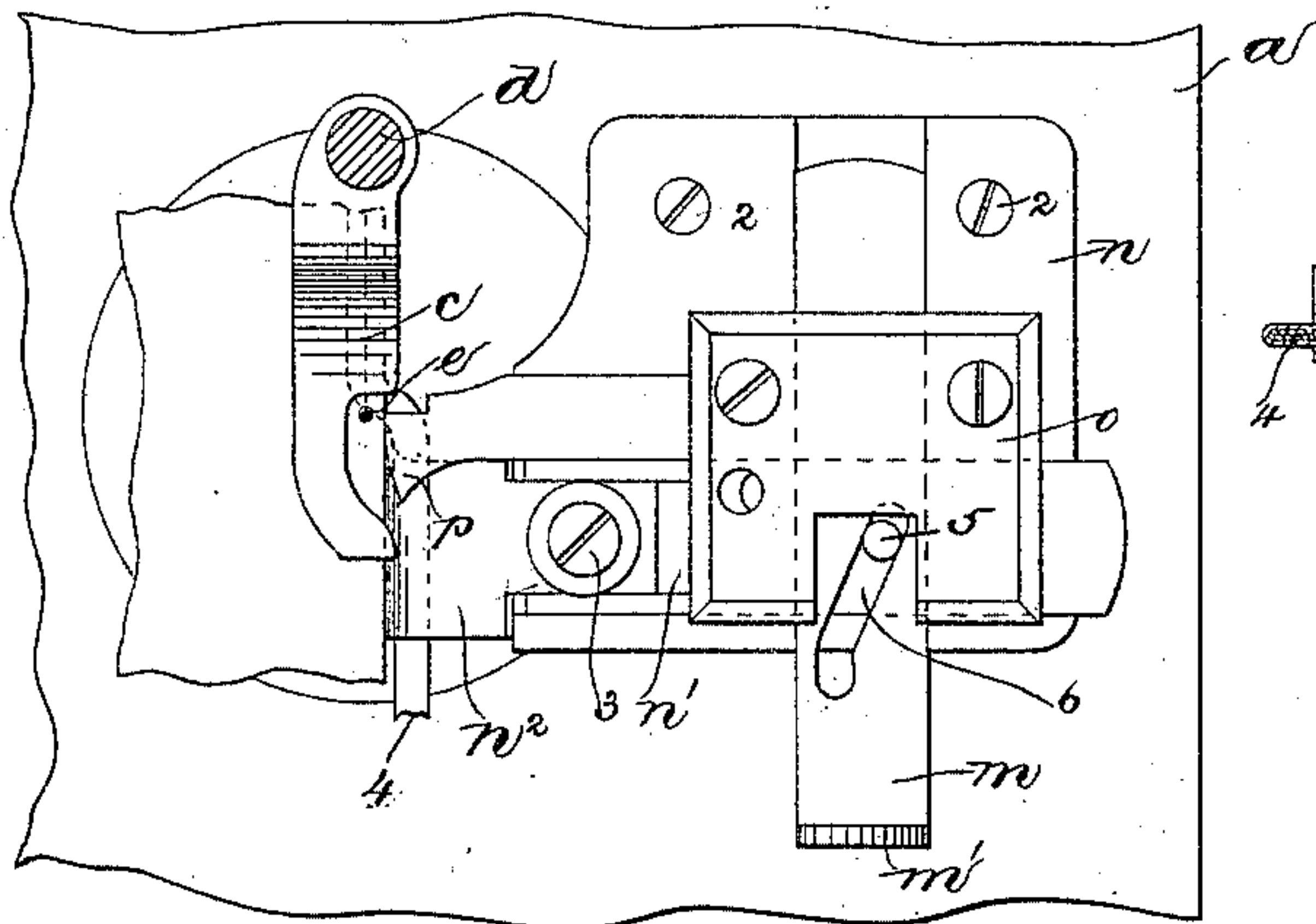
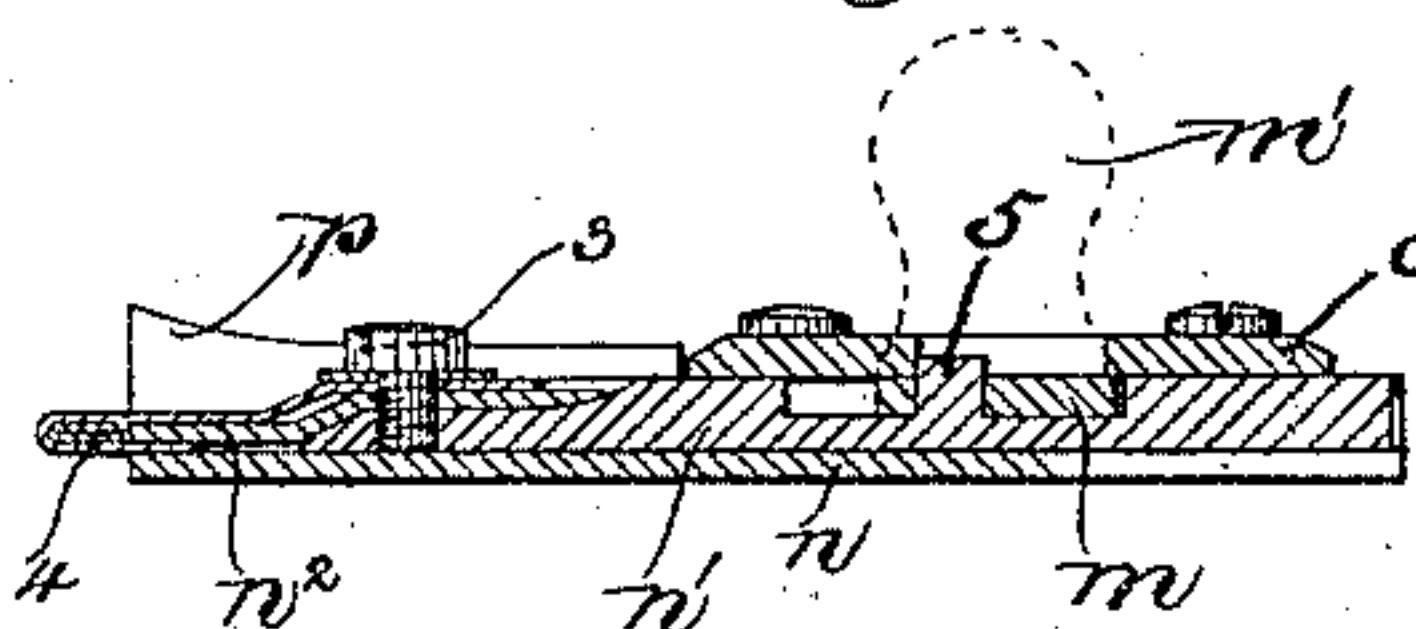


Fig. 3.



Witnesses:

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by Crosby & Gregory Attys

UNITED STATES PATENT OFFICE.

WILLIAM F. BEARDSLEE, OF NEW YORK, N. Y., ASSIGNOR TO THE MANUFACTURER'S SPECIAL MACHINE COMPANY, OF DANBURY, CONNECTICUT.

WELT-GAGE FOR SEWING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 431,137, dated July 1, 1890.

Application filed September 28, 1889. Serial No. 325,343. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM F. BEARDSLEE, of New York, county and State of New York, have invented an Improvement in Welt-Gages for Sewing-Machines, of which the following description, in connection with the accompanying drawings, is a specification, like letters on the drawings representing like parts.

10 This invention has for its object to construct a welt-gage for sewing-machines by which a welt may be held in position to be properly delivered to the work, and when desired may be thrown out or to one side of the work.

15 The welt-gage comprises a welt-holder movable horizontally in a guide-plate, which may be attached to the usual cloth-plate of the sewing-machine, such horizontal movement being at right angles to the vertical movement of the needle-bar, an operating bar or lever (herein shown as a slide-bar) being employed to move the said welt-holder, it being operatively connected with it.

25 As herein represented, the slide-bar has an inclined or diagonal slot, which receives a pin projecting from the welt-holder, and the operating-bar is arranged at right angles to said welt-holder, so that as it is moved horizontally parallel with the feed of the machine the welt-holder is moved horizontally at right angles thereto.

30 Figure 1 shows in plan view a welt-gage embodying this invention applied to a sewing-machine—such, for instance, as that known as the "Willcox & Gibbs;" Fig. 2, a similar view, the welt-holder being moved away from the needle to throw the welt at one side of the work; and Fig. 3, a sectional detail on line *x x*, Fig. 1, to be referred to.

40 The cloth-plate *a*, feeding device *b*, presser-foot *c*, presser-bar *d*, and throat-plate having the needle-hole *e* are of usual construction.

45 The welt-gage consists of a guide or base plate *n*, adapted to be secured to the cloth-plate *a* by screws 2 or otherwise, and having a groove or passage in which is placed to slide freely the welt-holder. This welt-holder, as herein represented, comprises a shank portion *n'* and welt-holder proper *n²*, the latter

being secured to the former by a set-screw 3.

The welt-holder proper *n²* has a hole or passage through it for the welt. (Shown at 4.)

The welt-holder has a pin 5, projecting upwardly from the shank, which enters an inclined or diagonal slot 6, cut or otherwise formed in a bar *m*, arranged to slide freely in a groove or passage formed in the guide or base plate *n*. The slide-bar *m* is arranged at right angles with relation to the welt-holder *n'* *n²*, and by the pin-and-slot connection shown is adapted to move said welt-holder back and forth horizontally, but substantially at right angles with relation to the direction of the feed of the machine.

65 A plate *o* is secured to the top of the guide or base plate *n* to hold the shank of the welt-guide and the slide-bar *m* in place. A guide-block or abutment *p* is arranged on the base-plate *n*, against which the material or work may be pressed, that the line of stitching may be parallel with the edge of the work.

70 When the welt-holder is in its extreme outward position, the welt is delivered parallel with the edge of the guide-block *p*, or it may be slightly inside of the groove, depending upon the width of the welts, but between the plies of the material or work to which it is being stitched; but when it is desired to cease stitching in the welt or to throw it out or at one side of the work being stitched then the slide-bar *m* or equivalent operating-lever is moved, as herein shown, toward the operator, it being provided with a finger or thumb piece *m'*, by which it may be easily engaged. Thus it will be seen that the position of the welt relative to the work being done may be changed at will by moving the operating device (shown as a slide-bar *m*) toward and from the operator.

90 I do not desire to limit myself to the particular connection shown, by which movement is imparted to the welt-holder, as it may be varied mechanically and yet the same result produced; nor do I desire to limit my invention to the particular form or construction of operating-bar for the welt-holder, as various forms may be devised to operate in substantially the same manner and produce substantially the same results.

I claim—

1. In a sewing-machine welt-guiding device, the combination, with the base-plate *n* and the welt-guide formed to inclose the welt and
5 having a shank which is loosely mounted on said base-plate to slide back and forth laterally therein or thereon, of a sliding adjusting bar or plate *m*, arranged to move at right angles to said shank and having a pin and in-
10 clined-slot connection therewith, whereby when said bar or plate *m* is moved toward and from the operator the said welt-guide will be adjusted laterally, substantially as set forth.

15 2. In a sewing-machine welt-guiding device, the combination, with a base-plate and a stationary guide, as *p*, for the work, of a laterally-movable welt-guide formed to inclose the welt and having a shank which has a sliding
20 connection with said base-plate and an op-

erating device connected with said shank and horizontally movable independently thereof and the movement of which slides said welt-guide laterally, substantially as set forth.

3. The combination, with the base-plate *n*,
25 of the welt-guide *n*², the shank *n*¹, to which said welt-guide is detachably secured and which is slidably mounted on said base-plate, and the sliding plate or bar *m*, arranged at right angles to said shank and having a slot-
30 and-pin connection therewith, substantially as set forth.

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

WM. F. BEARDSLEE.

Witnesses:

W. P. GAMMONS, Jr.,
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