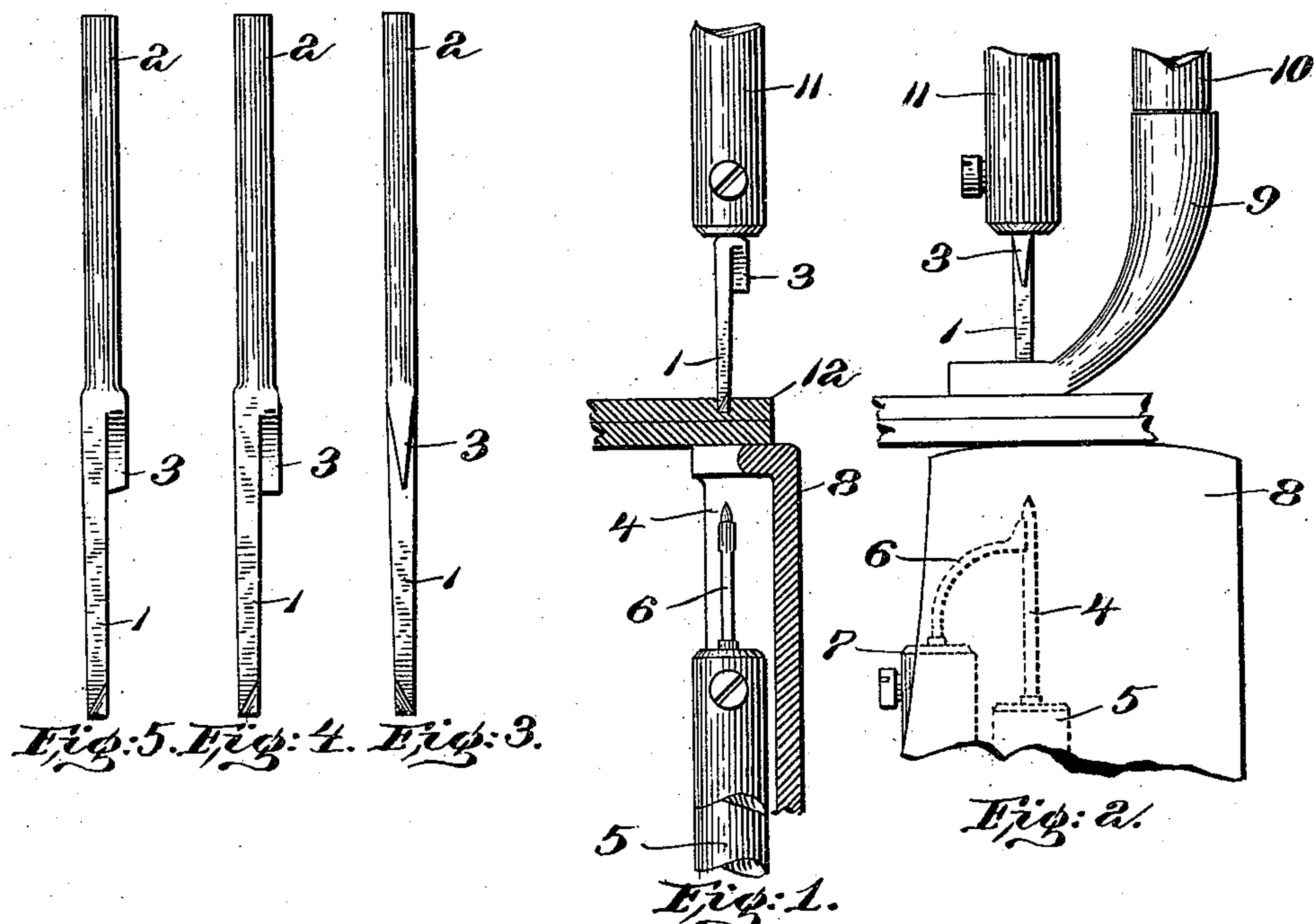


(No Model.)

E. F. MOWER.
SEWING MACHINE.

No. 556,101.

Patented Mar. 10, 1896.



Witnesses:

Arthur J. Randall,
A. H. Morrison.

Inventor:

Edwin F. Mower
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his Attorneys

UNITED STATES PATENT OFFICE.

EDWIN F. MOWER, OF BOSTON, MASSACHUSETTS, ASSIGNOR TO FRANK W. WHITCHER, OF SAME PLACE.

SEWING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 556,101, dated March 10, 1896.

Application filed March 5, 1895. Serial No. 540,580. (No model.)

To all whom it may concern:

Be it known that I, EDWIN F. MOWER, a citizen of the United States, residing at Boston, in the county of Suffolk and State of Massachusetts, have invented certain new and useful Improvements in Sewing-Machines, of which the following is a specification, reference being had therein to the accompanying drawings.

10 In doing certain kinds of stitching it is deemed desirable for purposes of ornamentation to mark the line of stitches with a series of transversely-extending indentations or marks, one of such indentations or marks being placed at the end of each stitch opposite the point where the latter joins the succeeding stitch. These marks or indentations should each extend at right angles to the line of stitches, and when the line is curved, as at the toe of a shoe, the indentations or marks should each be radial to the curve of the line; otherwise the ornamental effect will be impaired. I have found in practice that it is difficult to cause the indentations or marks to be formed in the proper radial position at a curve, as aforesaid.

25 The object of my present invention is to provide means for producing the above-described indentations or marks and whereby those which are made at the curves along the line of stitching shall be formed truly radial. In forming a curved line of stitches the work is turned on the awl.

30 My present invention consists in the combination, with stitch-forming devices, of an awl formed or provided with an indenting-marker having its operative edge arranged at right angles to the line of stitches and which at each descent of the awl makes an indentation or depression in the work.

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

Figure 1 is a view, partly sectional, of part of the devices of a sewing-machine having my invention applied thereto. Fig. 2 is a view in elevation at right angles to Fig. 1, showing also a presser-foot. Figs. 3 and 4 are elevations from different points of view of an awl formed with an indenting-marker in accord-

50 ance with my invention. Fig. 5 is a view showing a modification.

The needle of a sewing-machine is shown at 4, the needle-bar at 5, the cast-off at 6, the carrying-bar for the cast-off at 7, the work-support at 8, the presser-foot at 9, its bar at 10, and an awl-bar at 11.

All of the foregoing parts, as well as the remaining parts of a sewing-machine, which are not shown, are or may be as usual and operate or may operate in well-known manner.

60 To the awl-bar 11 I have shown applied an awl embodying my invention. The point or operative portion of the awl is shown at 1 and the shank thereof at 2.

At 3 is the indenting-marker, which is made integral with the awl and projects therefrom at the upper end of the point or operative portion thereof. The indenting-marker is wedge-shaped, as shown, the edge of the wedge preferably extending at right angles to a line parallel with the longitudinal axis of the awl.

70 As will be obvious, in each downstroke of the awl when the awl has about reached the lowest point of its movement, the indenting-marker produces an indentation or impression in the stock 12, being operated upon adjacent the awl-hole. The indenting-marker projects at a right angle to the line of feed, as shown, so that the indentations or impressions are produced at right angles to the line of stitching.

75 An awl provided with an indenting-marker, as just described, insures the indentations or marks being made in the correct position to obtain the best results at a curve. The operative edge of the marker may be varied in shape to produce indentations or marks of any desired shape, or the edge may be formed oblique, as shown in Fig. 5, so that one portion of it will make a deeper and more clearly defined indentation in the stock than the other portion. In these ways a great variety of indentations or marks may be produced readily.

80 My invention enables the stitches to be marked when they are formed by indentations or impressions side by side in the work, and thus any subsequent handling of the work, such as is required when the indenting

or marking is effected by an independent operation, is avoided.

What I claim is—

5 The combination with the stitching devices of a sewing-machine, of an awl provided with an indenting-marker projecting therefrom at right angles to the line of feed and operating to produce indentations or impressions side

by side in the work at right angles to the line of stitching, substantially as described. 10

In testimony whereof I affix my signature in presence of two witnesses.

EDWIN F. MOWER.

Witnesses:

WM. A. MACLEOD,
ROBERT WALLACE.