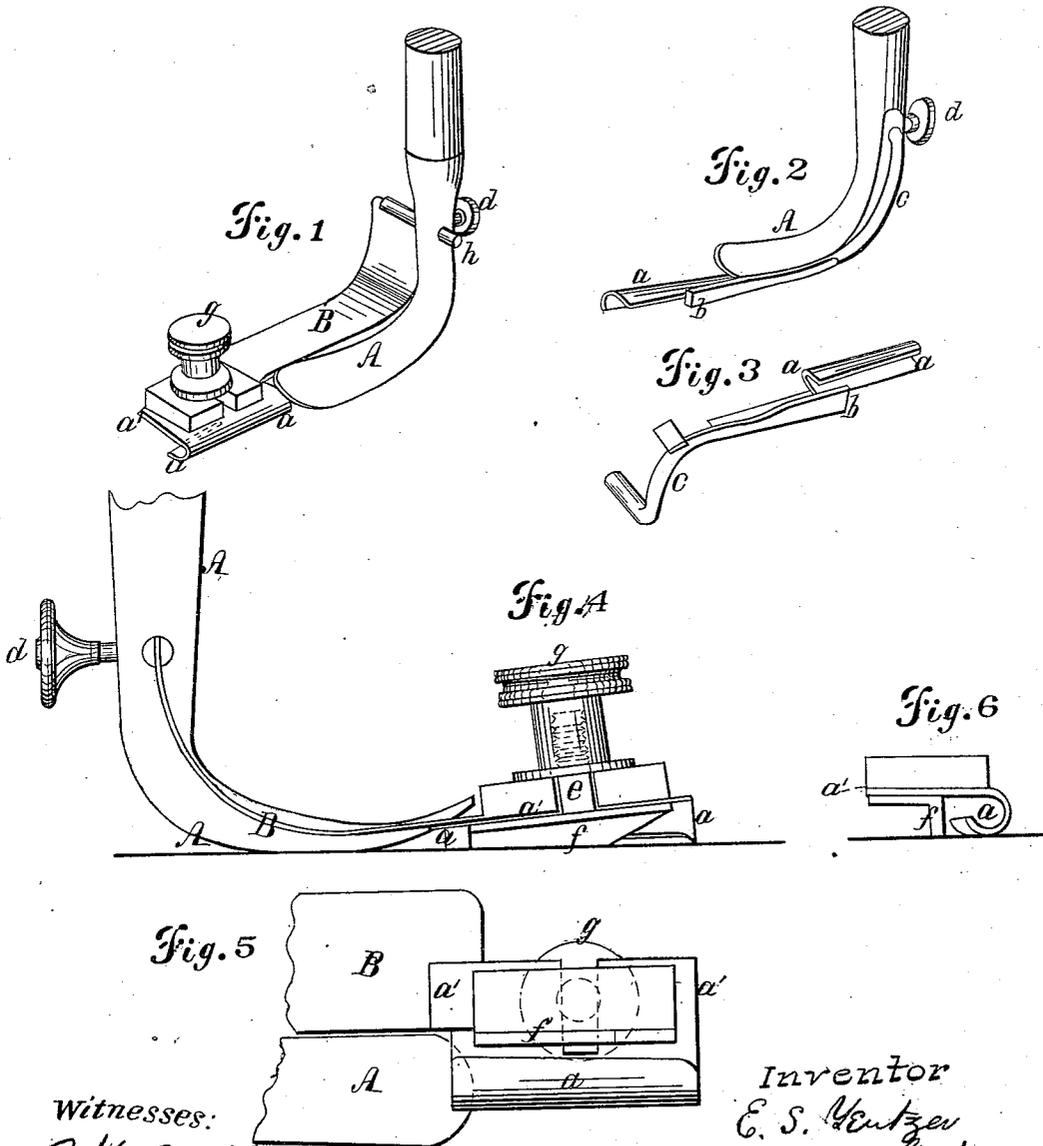


YENTZER & McCAIN.  
Sewing-Machine Feller.

No. 73,067.

Patented Jan. 7, 1868.



Witnesses:  
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# United States Patent Office.

ENOCH S. YENTZER AND ALFRED K. McCAIN, OF OTTAWA, ILLINOIS.

Letters Patent No. 73,067, dated January 7, 1868.

## IMPROVEMENT IN FELLER FOR SEWING-MACHINES.

The Schedule referred to in these Letters Patent and making part of the same.

### TO ALL WHOM IT MAY CONCERN:

Be it known that we, ENOCH S. YENTZER and ALFRED K. McCAIN, of Ottawa, in the county of La Salle, and State of Illinois, have invented a new and improved Feller for Sewing-Machinery; and we do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 is a perspective view of the feller applied to the foot of a sewing-machine, and provided with an adjustable guide.

Figure 2 is a perspective view of a feller without an adjustable guide.

Figure 3 is a perspective view of the bottom of the feller of fig. 2.

Figures 4 and 5 are enlarged views of the feller of fig. 1.

Figure 6 is an end view of the turning portion, and the guide of fig. 1.

Similar letters of reference indicate corresponding parts in the several figures.

This invention relates to a new and improved device, which may be readily attached to the presser-foot of a sewing-machine, or removed therefrom at pleasure, and which is designed for turning under the edge of cloth in making what are known as felled or lapped seams. In making these seams, the material is first stitched, so as to leave one very narrow edge, and one which is much wider. This latter edge requires to be turned under once, and stitched or felled down.

It is the object of our invention to perform this operation of felling or turning down the wide edge, upon a sewing-machine, without previously basting it down, by means of a simple device, consisting chiefly of a thin plate having one of its edges bent, so as to form a tapering turning portion, and a gauge or guide, which latter lies close to the seam first made, and leaves the work straight, as will be hereinafter described.

To enable others skilled in the art to understand our invention, we will describe its construction and operation.

In the accompanying drawings, figs. 2 and 3, *a* represents the device for turning under the edge of a piece of cloth, which device is made of a thin plate, bent about as we have represented; that is to say, one portion of the plate is turned under more than the other, so as to form an enlarged entering-portion, terminating in a flat throat, thus causing the edge of the cloth to be gradually turned under as it moves beneath the presser-foot A. This turner *a* is secured firmly to the side of gauge or guide *b*, the lower edge of which projects slightly below the upper edge of the turner, nearest the throat thereof, as shown in fig. 3. The guide *b* terminates in a curved arm or holder, *c*, the end of which is bent at right angles to its guiding portion, for the purpose of entering a hole made through the bar of the presser-foot A. By means of the thumb-screw *d*, the arm *c* and its guide and turner are secured fast in place.

For stitching the first seam, the device may be removed from the presser-foot by loosening the thumb-screw *d*, or, if desirable, the device may be turned up out of the way and held in this position. The turner *a* should be so adjusted, with relation to the pressing surface of the foot A, that the turned seam will pass beneath this portion, and be smoothed as it advances to the needle.

In figs. 1, 4, 5, and 6, a feller is represented, in which the plate, on which the turning portion *a* is formed, is slotted, for the purpose of allowing the square neck, *e*, of a screw to pass through it. This screw is formed on a right-angular piece, *f*, the vertical portion of which forms the gauge or guide, shown clearly in fig. 6. The screw receives upon it a thumb-nut, *g*, by means of which the guide *f* can be adjusted and set at any required distance from the turner *a*, for stitching wide or narrow fells. The plate *a'*, on which the turner *a* is formed, is secured rigidly to a wide plate, B, that is curved upward, as shown in figs. 1 and 4, and provided, on its upper end, with a pin, *h*, that passes through the bar of the presser-foot A, and is held fast by the thumb-screw *d*.

The curved plate B lies close to the side of the presser-foot, and the turner-plate *a'* is secured to this plate, so that the turner *a* projects from its side, and is brought in or nearly in line with the pressing surface of this foot, so as to present a flatly-pressed seam to the needle.

The plate B is made of some suitable spring metal, so as to keep the cloth down close upon the bed of the sewing-machine while the feed rises, preparatory to and during the act of moving the work beneath the needle.

If desirable, a portion of the turner *a* may be split, as indicated in red, fig. 1, so that it will have a slight elasticity.

Having described our invention, what we claim as new, and desire to secure by Letters Patent, is—

1. The attachment of both the single turner *a* and the gauge or guide *b* to the presser-foot, by the means and in the manner substantially as herein described.
2. The single turner *a*, in combination with an adjustable gauge or guide, *f*, adapted for felling seams, substantially as described.
3. The attachment of the turner *a* of a feller to an elastic holding-plate *B*, substantially as described.

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