

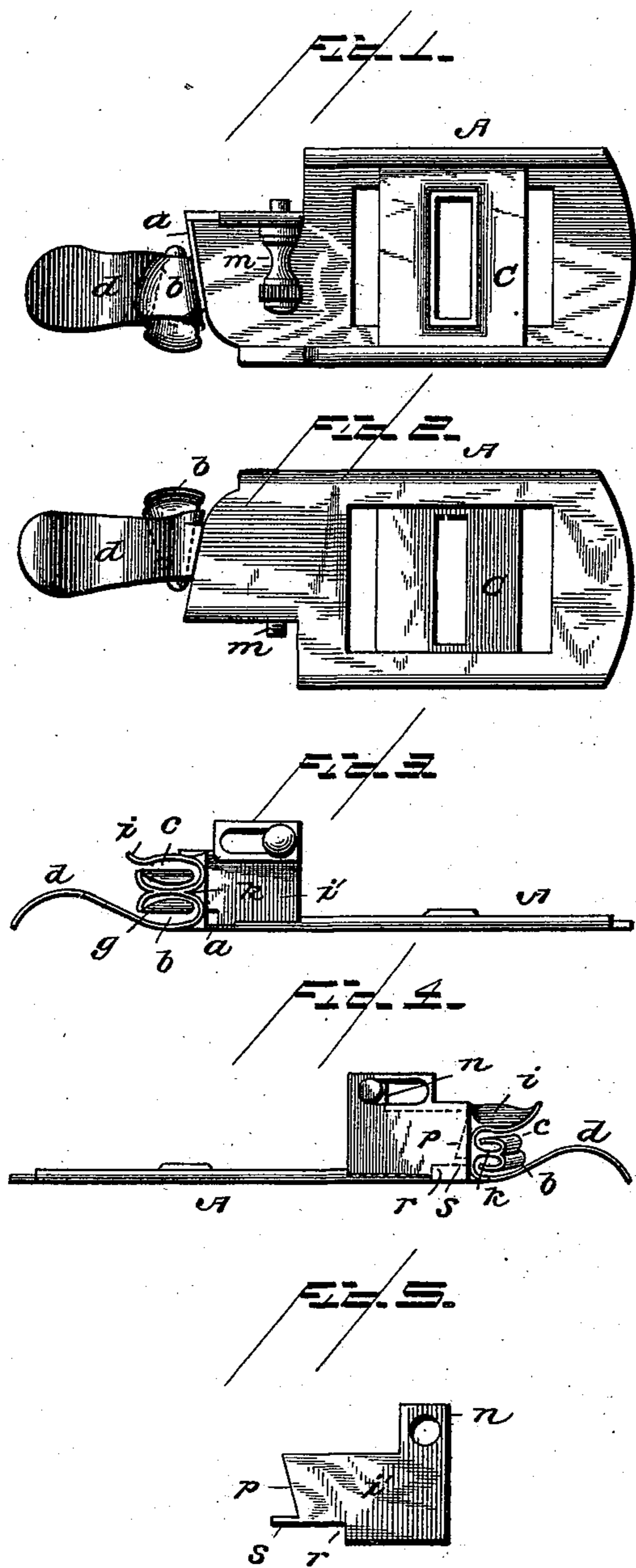
(Model.)

W. H. GANSS.

HEMMER FOR SEWING MACHINES.

No. 378,048.

Patented Feb. 14, 1888.



WITNESSES

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HEMMER FOR SEWING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 378,048, dated February 14, 1888.

Application filed July 21, 1887. Serial No. 244,922. (Model.)

To all whom it may concern:

Be it known that I, WILLIAM H. GANSS, a citizen of the United States, residing at Toledo, in the county of Lucas and State of Ohio, have
5 invented certain new and useful Improvements in Seam-Finishers; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to
10 make and use the same.

This invention relates to certain improvements in attachments for sewing-machines; and it has for its objects to provide a device by means of which the adjoining edges of the two pieces
15 of fabric may be turned inwardly toward each other just previous to passing under the needle of a sewing-machine in such manner that the two folded edges will be stitched together while passing between the needle and the
20 throat-plate of the machine, and also to provide a gage whereby the upturned edge of the lower fabric may be so carried relatively to the downturned edge of the upper fabric as to project to a regulated distance beyond the downturned
25 edge of the upper fabric, as more fully hereinafter described.

My invention consists, essentially, in a device having double hemming-guides so arranged as to turn the edges of the two pieces
30 of fabric in opposite directions and against each other in such manner that such turned edges will be secured by a line of stitches when passing under the needle, as more fully hereinafter specified; and my invention further
35 consists in a device whereby the inturned and united edges may be gaged, so that one may project beyond the other to give the desired finish to the united fabrics, as more fully hereinafter set forth.

40 The above-mentioned objects I attain by the means illustrated in the accompanying drawings, in which—

Figure 1 represents a top view of my improved attachment; Fig. 2, a bottom view thereof; Fig. 3, a side elevation looking at the entering ends of the turning-guides; Fig. 4, a side elevation looking at the opposite or emerging ends of the said guides; and Fig. 5, a detached view of an adjustable gage whereby
50 the turned edges of the fabric are thrown out of line with each other, as more fully herein- after set forth.

Referring to the drawings, the letter A indicates a flat metallic plate which at its left-hand end is upturned vertically and at right
55 angles, as indicated by the letter *a*, so as to form a support for the hemming-guides *b c*, which are secured thereto in any convenient manner. The lower hemming-guide is of the usual construction, consisting of a curved
60 guard-plate, *d*, which bears against the bed of the machine and guides the lower fabric into the lower hemming-guide, the said guide being provided with the usual upturned lip, *g*, which directs the upper portion of the edge of the
65 lower fabric into the guides, as usual. In addition to the lower hemming-guide, and forming the main feature of the invention, is an upper hemming-guide, *c*, which, preferably, is a continuation of the lower hemming-guide
70 and is an exact counterpart of the same except that it is arranged reversely thereto and has its guard-plate *i* above. The re-entrant portion *k* of the double hemming-guide is connected intermediately between the upper and
75 lower portions of the hemming-guide in any convenient manner, so as to hold the parts together in the proper relative positions.

The plate A at one side is upturned and re-
80 bent, forming a guide for a sliding gage, *i'*, which consists of a metallic plate having a screw-threaded offset, *n*, for the reception of an adjusting binding-screw, *m*, which passes through the rebent portion of the plate A,
85 above described. The said gage has an angular shoulder, *p*, above and a right-angled shoulder, *r*, below, with an intermediate lip, *s*, which enters between the folded edges of the two pieces of fabric and determines their relative positions while being united, the up-
90 per shoulder guiding the edge of the upper fabric and the lower shoulder the edge of the lower fabric, while the lip keeps the intermediate edges apart and in proper relative positions to each other.

95 The plate A has its body slotted and its edges upturned, and between said edges is arranged a slotted spring-plate, C, by means of which the device may be adjustably clamped to the bed of the machine by a suitable set-
100 screw, so that the device may be properly adjusted upon the machine.

The operation of my invention may be readily understood from the following description,

and is as follows: The plate A is secured upon the bed of the machine and adjusted to the throat and needle thereof in the usual manner. The edges of the fabric are thus arranged to
5 pass into the hem-guides, the edge of the lower fabric entering the lower guide and that of the upper fabric entering the upper guide, and the two passing under the presser-foot of the machine. As the machine is operated the
10 fabrics with their edges thus arranged will be caught and carried forward by the feed mechanism and turned inwardly toward each other and stitched together in that position. In order to cause the edge of the lower fabric to
15 project uniformly beyond that of the edge of the upper fabric, and to regulate the distance of such projection, the gage above mentioned is employed, which, by being set forward to a greater or less extent, crowds back the folded
20 edge of the upper fabric to a desired and regulated distance.

It is evident that my improved device may be used as an ordinary hemmer for a single fabric by simply passing the edge of the same
25 through either the lower or upper guide, possessing this advantage over the ordinary hemmers, however, in that the edge of the fabric

may be turned up or down, according to the portion of the guide employed.

Having described my invention, what I 30 claim, and desire to secure by Letters Patent, is—

1. The combination, with the double hemming-guide, of the adjustable gage-plate having an upper angular shoulder, a lower rectangular shoulder, and an intermediate lip to 35 enter between the folded edges of two pieces of fabric, whereby the inturned edges are separated and carried out of line with each other at a properly-regulated distance, substantially 40 as specified.

2. The combination, with the flat plate carrying the double hemmer-guides and the upwardly-projecting slotted bracket, of the gage-plate provided with guide-shoulders and a 45 separating-lip, and the set-screw working within the bracket-slot, whereby said plate may be adjusted, substantially as specified.

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

WILLIAM H. GANSS.

Witnesses:

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