

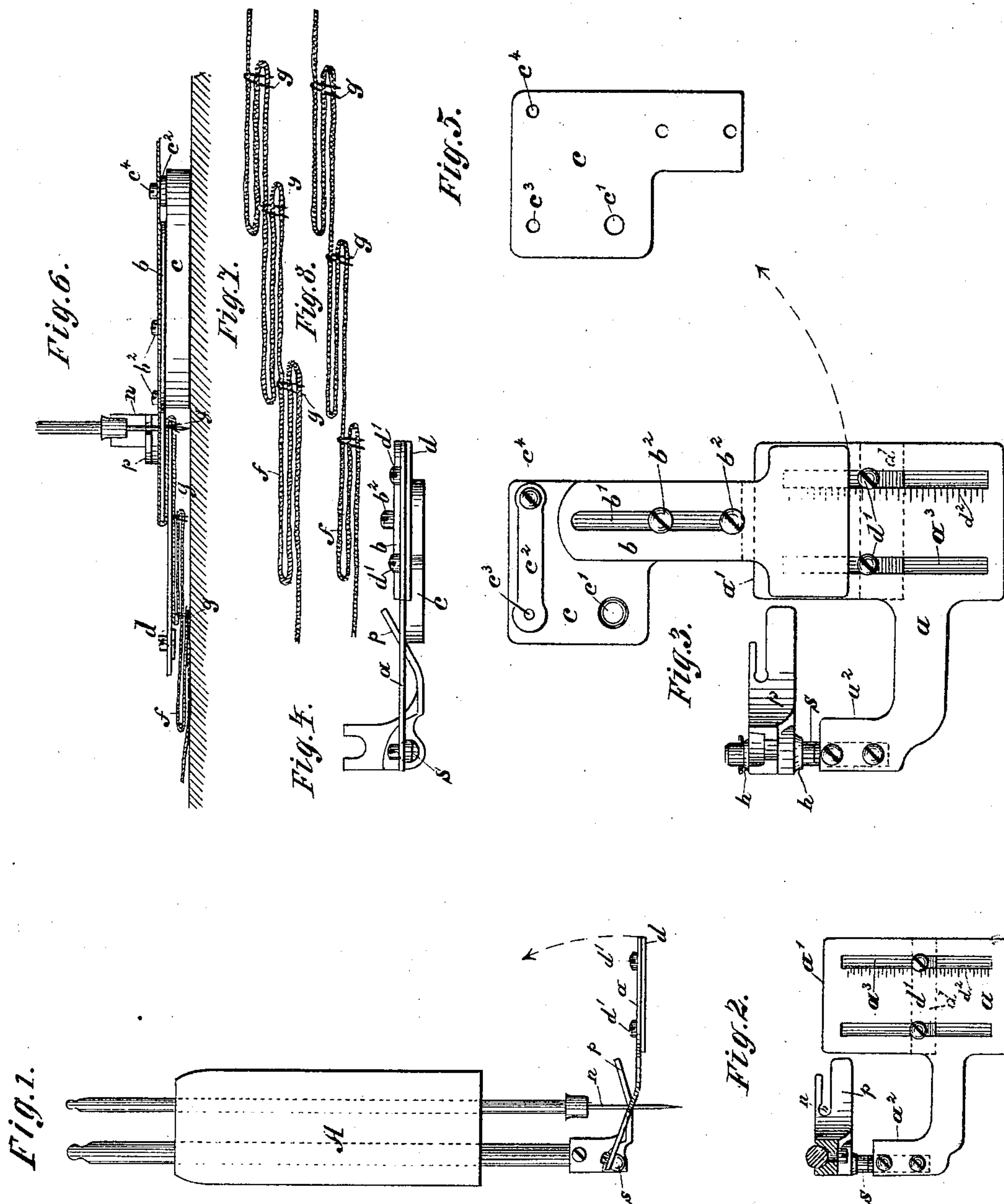
(No Model.)

C. B. PARELIUS.

PLAITING ATTACHMENT FOR SEWING MACHINES.

No. 350,552.

Patented Oct. 12, 1886.



Witnesses:

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# UNITED STATES PATENT OFFICE.

CHRISTOPHER B. PARELIUS, OF CHICAGO, ILLINOIS, ASSIGNOR OF ONE-HALF TO BENJAMIN LINDAWER, OF SAME PLACE.

## PLAITING ATTACHMENT FOR SEWING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 350,552, dated October 12, 1886.

Application filed February 1, 1886. Serial No. 190,408. (No model.)

*To all whom it may concern:*

Be it known that I, CHRISTOPHER B. PARELIUS, a citizen of Norway, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Plaiting Attachments for Sewing-Machines, which are fully set forth in the following specification, reference being had to the accompanying drawings, forming a part hereof, and in which—

Figure 1 shows the head of a sewing-machine provided with a part of my improved plaiter attached to the presser-foot. Fig. 2 is a plan view of the same parts cut off below the head A. Fig. 3 is a plan view of the complete apparatus on the bed-plate of a sewing-machine, ready for operation. Fig. 4 is an end view of Fig. 3, taken from the same position as Fig. 1. Fig. 5 is a plan view of the block *c*, shown in Figs. 3, 4, and 6. Fig. 6 shows the complete apparatus from the side of Fig. 1, and the front of a sewing-machine, with a fabric plaited in it, in which the stitching is covered by the overlapping plaits. Fig. 7 shows a fabric plaited in such a manner as to cause the plaits to lie over the stitching, drawn on an enlarged scale. Fig. 8 shows a piece of plaiting with the stitches exposed, the plaits not overlapping the stitches.

The object of my invention is to provide a plaiting apparatus which may be attached to and operate in connection with a sewing-machine. To the presser-foot *p* is attached a shaft or pin, *s*, projecting outward in the manner shown, and to said shaft is attached an arm, *a*<sup>2</sup>, provided with a blade, *a*, having one or more slots, *a*<sup>3</sup>, and a gage, *d*<sup>2</sup>, on either one of its longitudinal edges, or on one of the slots, as shown. Said blade is also provided with a gage, *d*, which may be moved longitudinally and secured by screws *d*<sup>1</sup>. The blades *a* may be raised, as indicated in Fig. 1 by the arrow-head; but it need not necessarily be attached to the presser-foot. The edge *a*<sup>1</sup> extends slightly beyond the line of stitching *g*, just far enough to secure the cloth. The position of said edge *a*<sup>1</sup> may be adjusted in any suitable manner—as, for instance, as shown, by means of rings *h*, which may be thick or thin, and on one or both sides of the presser-foot, as shown in Fig. 3.

Upon the block *c*, and in line with the blade *a*, is attached a thin metal plate, *b*, having slot *U*, by means of which its broad head, of about the same width as the blade *a*, and lying on top of it, may be adjusted longitudinally and held by the screws *b*<sup>2</sup>. Said block *c* is shown separate in Fig. 5, and is placed so as to leave a slight space between it and the edge *a*<sup>1</sup>, so as to freely pass the thickness of cloth, as is shown in Figs. 3 and 6, and is fastened to the bed-plate of the sewing-machine by a screw or pin, *c*<sup>1</sup>, on which it turns, as indicated by the arrow-head in Fig. 3, and is held in its proper position by a pin, *c*<sup>3</sup>, passing through it into a hole in the bed-plate of the machine, and said pin is held by a spring, *c*<sup>2</sup>, secured to the block *c* by a screw, *c*<sup>4</sup>. By this arrangement the parts *a* and *b* may readily be moved out of the way from the front of the needle; but the parts *a* and *b* may be attached and adjusted in any other suitable manner.

To use the apparatus, set the blade *b* so as to determine the width of the plait, and the gage *d* so that the stitches *g* shall either be covered by the plaits, as shown in Figs. 6 and 7, or so that they shall be so exposed, as shown in Fig. 8. Pass the cloth *f* under the blade *a*, then over it to the left, then pass the blade *b* over the cloth into the position shown in Fig. 3, and then throw the cloth back to the right over the blade *b*, as shown in Fig. 6, when facing the machine, thus stitching through the three thicknesses of cloth, as it is fed from the plaiter, and as shown in Figs. 6, 7, and 8. The first finished plait, and each succeeding one, may be made to run against the edge of the gage *d*<sup>1</sup>, as shown in Fig. 6; or the gage *d*<sup>1</sup> may be dispensed with, and a gage, *d*<sup>2</sup>, marked in the blade *a*, used. It will be observed that in this construction the needle must always pass through at least three thicknesses of cloth to make the device operative.

What I claim is—

1. In combination with the needle of a sewing-machine, a plaiter formed of the blade *a*, hinged to the presser-foot, and having an adjustable edge, *a*<sup>1</sup>, projecting beyond the line of stitching, and an overlapping and adjustable blade, *b*, substantially as specified.

2. In combination with the needle of a sewing-machine, a plaiter formed of the blade *a*,

hinged to the presser-foot, and having an edge, *a'*, projecting beyond the line of stitching, and an overlapping blade, *b*, and gage *d*, substantially as specified.

- 5 3. In combination with a sewing-machine, a plaiter formed of a hinged and longitudinally-adjustable blade, *a*, and a hinged and longitudinally-adjustable blade, *b*, attached to a block, *c*, arranged to pass the cloth under the  
10 blade *a* and around its edge *a'*, over the blade *a*, and under the overlapping blade *b*, and around its outer edge back over the blade *b*, so as to cause the needle to pass through three thicknesses of cloth, substantially as specified.

4. In combination with the needle of a sewing-machine, a plaiter formed of the hinged and adjustable blade *a*, attached to the presser-foot, and having an edge, *a'*, extending beyond the line of stitching, a block, *c*, carrying an adjustable blade, *b*, and a gage for regulating the  
15 width of the plait, substantially as specified. 20

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Witnesses:

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