G. A. Colton & S. P. Babcock.

Sewing Machine Attachment.

117152

Patented Jul 18 1871

Fig. 3.

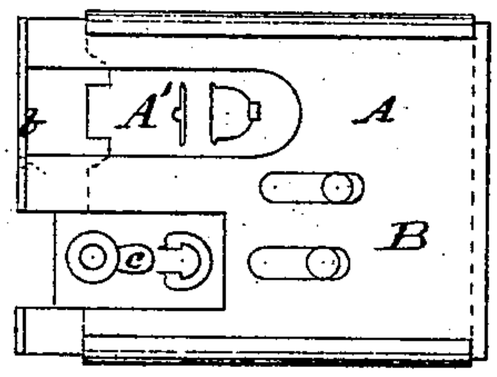


Fig. 1.

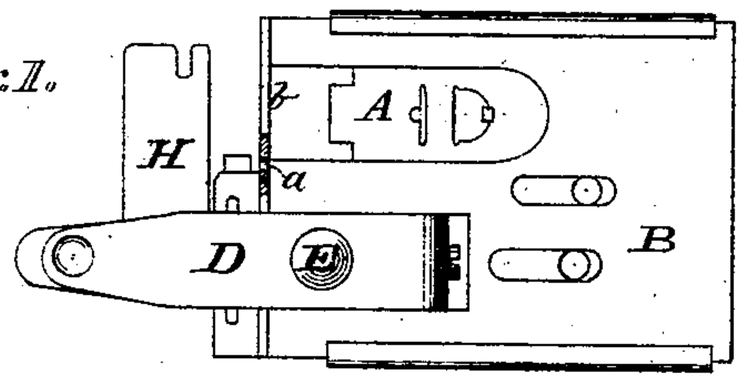


Fig 12.

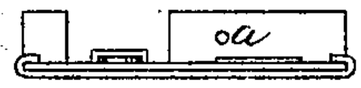


Fig. 4.

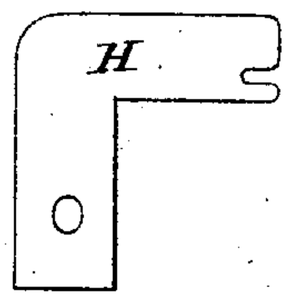


Fig. 11.

Fig. 5.

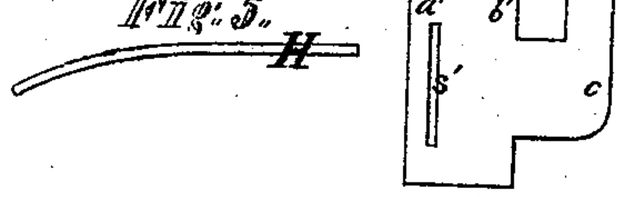


Fig. 6.

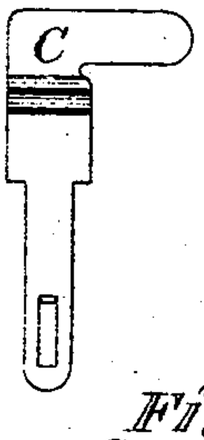
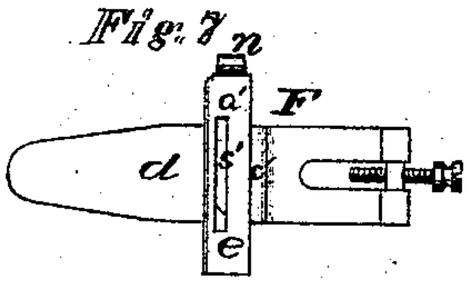


Fig. 7.



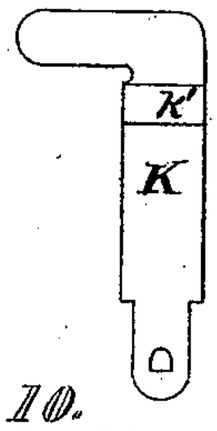


Fig. 8.

Fig. 9.

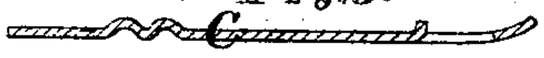


Fig. 10.

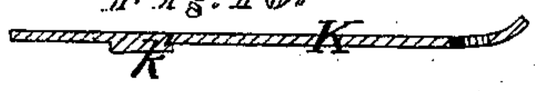
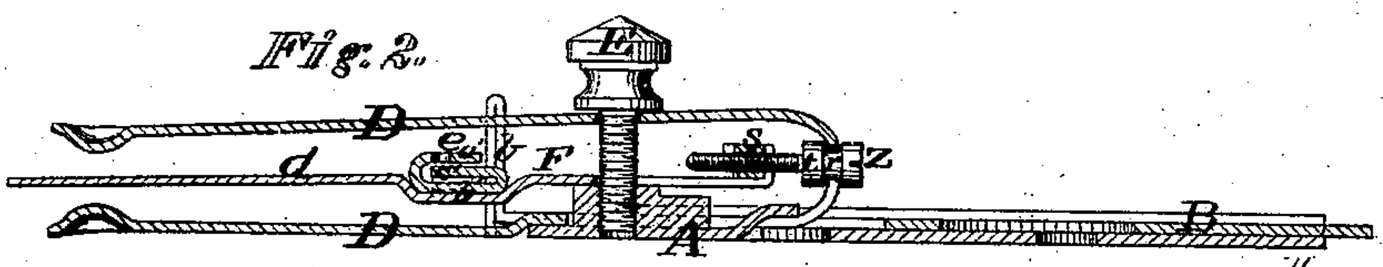


Fig. 2.



Witnesses:

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Attorneys,

UNITED STATES PATENT OFFICE.

GEORGE A. COLTON AND SYLVESTER P. BABCOCK, OF ADRIAN, MICHIGAN.

IMPROVEMENT IN CORDING ATTACHMENTS FOR SEWING-MACHINES.

Specification forming part of Letters Patent No. 117,152, dated July 18, 1871.

To all whom it may concern:

Be it known that we, GEORGE A. COLTON and SYLVESTER P. BABCOCK, of Adrian, in the county of Lenawee and State of Michigan, have invented a new and valuable Improvement in Sewing-Machine Attachments; and we do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawing making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawing is a top view of my invention. Fig. 2 is a vertical longitudinal section. Figs. 3, 4, 5, 6, 7, 8, 9, 10, 11, and 12 are details.

Our invention has relation to an improvement in sewing-machine attachments; and consists, mainly, in the construction and novel arrangement of devices designed to be used in sewing a cord-welt in a seam, whereby the cord and welt-cloth guide are made adjustable with reference to the position of the needle.

A of the drawing designates the bed-plate, which is attached to the sewing-plate of the machine. B represents the adjustable sliding gauge-plate attached to the bed-plate A, and provided with a perforation, *a*, in the vertical gauging-flanch *b* thereof. The nut of the bed-plate which receives the clamp-screw which secures the cloth-fingers is provided with an extension, *c*, in rear, which serves to steady the fingers. C designates the presser-plate, corrugated transversely to facilitate the passage of the corded seam underneath. D represents the cloth-fingers, between which the adjustable cord and welt-cloth feeder are placed, the whole being secured to the bed-plate by the clamp-screw E. F designates the adjustable cord and welt-cloth guide. They consist of a tongue, *d*, welt-cloth guide *e*, and cord-guide *n*. To the rear end of the tongue *d* is attached a nut, *s*, through which passes the set-screw *z*, provided with a groove, *r*, between its head and a collar, *t*, upon the stem thereof. This groove engages with the rear portion of the plate which constitutes the fingers, and, by turning the screw *z*, the tongue *d* is adjusted back and forth at will. The cord-guide and welt-cloth guide are formed by the same piece of metal, of a shape similar to that shown at Fig. 11, which is attached, after it has been bent up in form, to the tongue *d*. A slot, *s'*, is formed in the plate *e*. When in position this slot is situated in the upper part of the welt-cloth guide. The lower part thereof is bent back upon itself in such a manner that it shall be inserted between the upper part *a'* and the lower guide *b'*, in the form of a tongue, *c'*, which is designed to keep the folded cloth separated for the introduction of the cord. H represents a modification in the form of the presser-plate. Some sewing-machines are so constructed that the presser-plate cannot be introduced at the point A', shown in Fig. 3. In such machines I design to employ the elbow presser-plate H, which is inserted between the fingers below the corder or binder and secured by the clamp-screw *s*. K designates a modified presser-plate, on the under side of which is formed a projection or guide, *k'*, which determines the position of the edge of the cloth and keeps it in the proper direction with reference to the needle. This may be regarded as a modified form of the presser-plate C, made to answer a double purpose.

It will be observed that the cord-guide *n* is formed on that end of the separating-tongue *c'* which is nearest the needle. Thus the cord is carried directly into the fold of the welt-cloth.

What we claim as our invention, and desire to secure by Letters Patent, is—

1. The adjustable welt-corder F, consisting of the tongue *d*, welt-cloth way *e*, welt-cloth separator *c'*, cord-guide *n*, and adjusting set-screw *z*, all constructed as specified.

2. In combination, the adjustable welt-corder F as above described, the fingers D, bed-plate A, adjustable gauge-plate B, and the ribbed or corrugated presser-plate C, when all are constructed as specified.

In testimony that we claim the above we have hereunto subscribed our names in the presence of two witnesses.

GEO. A. COLTON.
SYLVESTER P. BABCOCK.

Witnesses:
J. C. WIESINGER,
S. E. GRAVES.