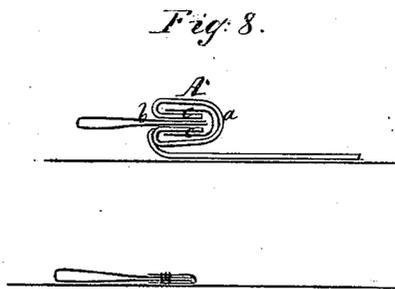
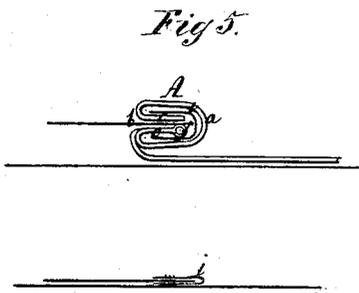
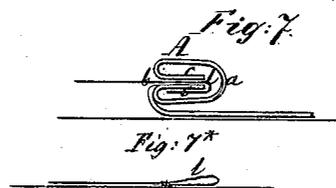
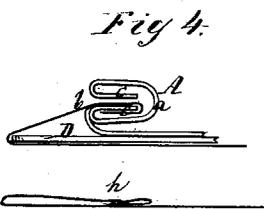
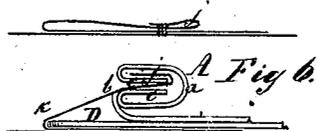
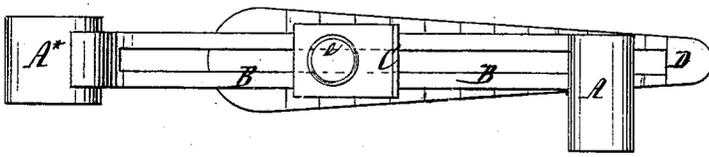
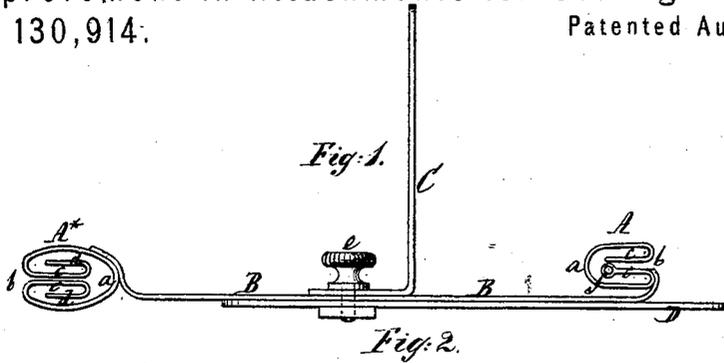


P. GROSFELD.

Improvement in Attachments for Sewing-Machines.
No. 130,914.

Patented Aug. 27, 1872.



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Fig. 9.

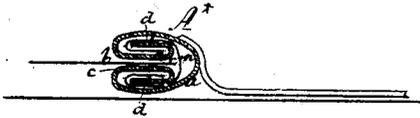


Fig. 10.

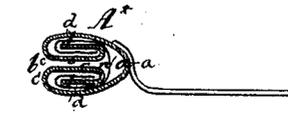


Fig. 12.

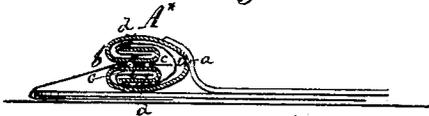


Fig. 11.



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UNITED STATES PATENT OFFICE.

PHILLIP GROSFELD, OF NEW YORK, N. Y.

IMPROVEMENT IN ATTACHMENTS FOR SEWING-MACHINES.

Specification forming part of Letters Patent No. 130,914, dated August 27, 1872.

To all whom it may concern:

Be it known that I, PHILLIP GROSFELD, of the city, county, and State of New York, have invented a new and Improved Attachment to Sewing-Machines for Hemming, Creasing, and so forth; and I do hereby declare the following to be a full, clear, and exact description thereof, which will enable those skilled in the art to make and use the same, reference being had to the accompanying drawing forming part of this specification, in which drawing—

Figure 1 represents a sectional side view of this invention. Fig. 2 is a plan or top view of the same. The remaining figures show samples of the work which can be produced by means of my attachment.

Similar letters indicate corresponding parts. This invention relates to a device which, when attached to a sewing-machine, can be used with great advantage for making hems of various width, for binding, and for banding with a plain or with a bias band, for making millinery folds and for cording. My device consists essentially of an arm, carrying a piece of sheet metal curled up so as to form a rounded back, and open, central mouth, and two folding lips, one on each side of the mouth, said folding lips being made one with and one without a return bend, and the arm being provided with a slot for the purpose of attaching the same to a sewing-machine, and adjusting it in the required position in such a manner that the above-named operations can be performed with ease and rapidity. With the folding lips and intermediate mouth of my device I have also combined a cord-guide, which is secured to one of the folding lips, so that my device can also be used with advantage for cording.

In the drawing, the letters A A* designate the folding head, which is made of a piece of sheet metal curled so as to form a closed back, *a*, an open mouth, *b*, and two folding lips, *c*. By referring to Fig. 1 of the drawing it will also be noticed that the lips *c* of the folding head A A* are provided with return bends *d*, that are not applied to the folding lips of the head A. Said folding heads are attached each to a slotted arm, B, which is secured, by means of a set-screw, *e*, to a bracket, C, of such a construction that the same can be conveniently secured to a sewing-machine, bringing the

head A or A* in the proper position in front of the needle and above the cloth-plate. The bracket which I use, by preference, for this purpose, is described in my patent No. 125,674, dated April 16, 1872. With the slotted arm B is combined a graduated gage, D, which is held in position by the set-screw *e*. The heads A and A* may be attached to one and the same slotted arm, B, at its opposite ends, or they may be secured each to a separate arm. With one of the lips *c* of the head A is combined a cord-guide, *f*.

The several operations which can be performed with the folding head A are illustrated in Figs. 3, 4, 5, 6, 7, 8. In Fig. 3 I have shown the position of the fabrics in forming a narrow hem, *g*. In the bight of the fabric may be introduced a cord which is fed in through the cord-guide.

In Fig. 4 I have shown a wide hem, *h*, which is produced by the folding head A, the width of the hem being determined by the gage D.

In Fig. 5 I have illustrated the operation of binding, the band *i* which is used for binding being passed through the head with its edges projecting into the bight of the folding lips, while the material to which the binding is to be attached extends into the mouth *b* of the head A. A cord may also be introduced into the bight of the binding.

In Fig. 6 I have illustrated the operation of producing a millinery fold, a band or fabric, *j*, being passed through the folding head and sewed down upon a skirt or other garment, leaving a bight, *k*, the extent of which is determined by the gage D. The finished fold is shown in Fig. 6*.

In Fig. 7 I have illustrated the operation of securing a plain band, *l*, upon a skirt or other garment, the band being passed through the folding head first at one edge and then at the other. Fig. 7* shows the band when complete.

In Fig. 8 I have illustrated another method of producing a band out of two pieces.

In Fig. 9 I have illustrated the operation of binding with a bias band, *m*, said bias band being made to pass through the folding head A*, which, being provided with return bends *d* at its folding lips, turns the edges of the band under, as shown, while the fabric to which the band is to be attached extends into the mouth *b* of the head A*.

In Fig. 10 I have illustrated the operation of attaching a bias band, *n*, to a skirt or other fabric.

In Fig. 11 I have illustrated the operation of making a millinery fold, *o*.

In Fig. 12 I have illustrated the operation of producing a bias band, *p*, and sewing the same upon a skirt or other garment, the width of said band being determined by the gage D.

It will also be seen that for most of these operations it is of the utmost importance to leave the cloth-plate entirely free and unobstructed, and for this reason I prefer to secure my device to the sewing-machine by means of a bracket, such as described in my patent No. 125,674.

What I claim as new, and desire to secure by Letters Patent, is—

1. The improved attachment for sewing-machines, consisting of the heads A A*, constructed as herein shown and described, and arranged one at each end of the slotted arm B, each operating in connection with the gage D, bracket C, and set-screw *e*, as herein shown and specified.

2. The cord-guide *f*, in combination with the folding head A, slotted arm B, and supporting bracket C, substantially as set forth.

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Witnesses:

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E. F. KASTENHUBER.