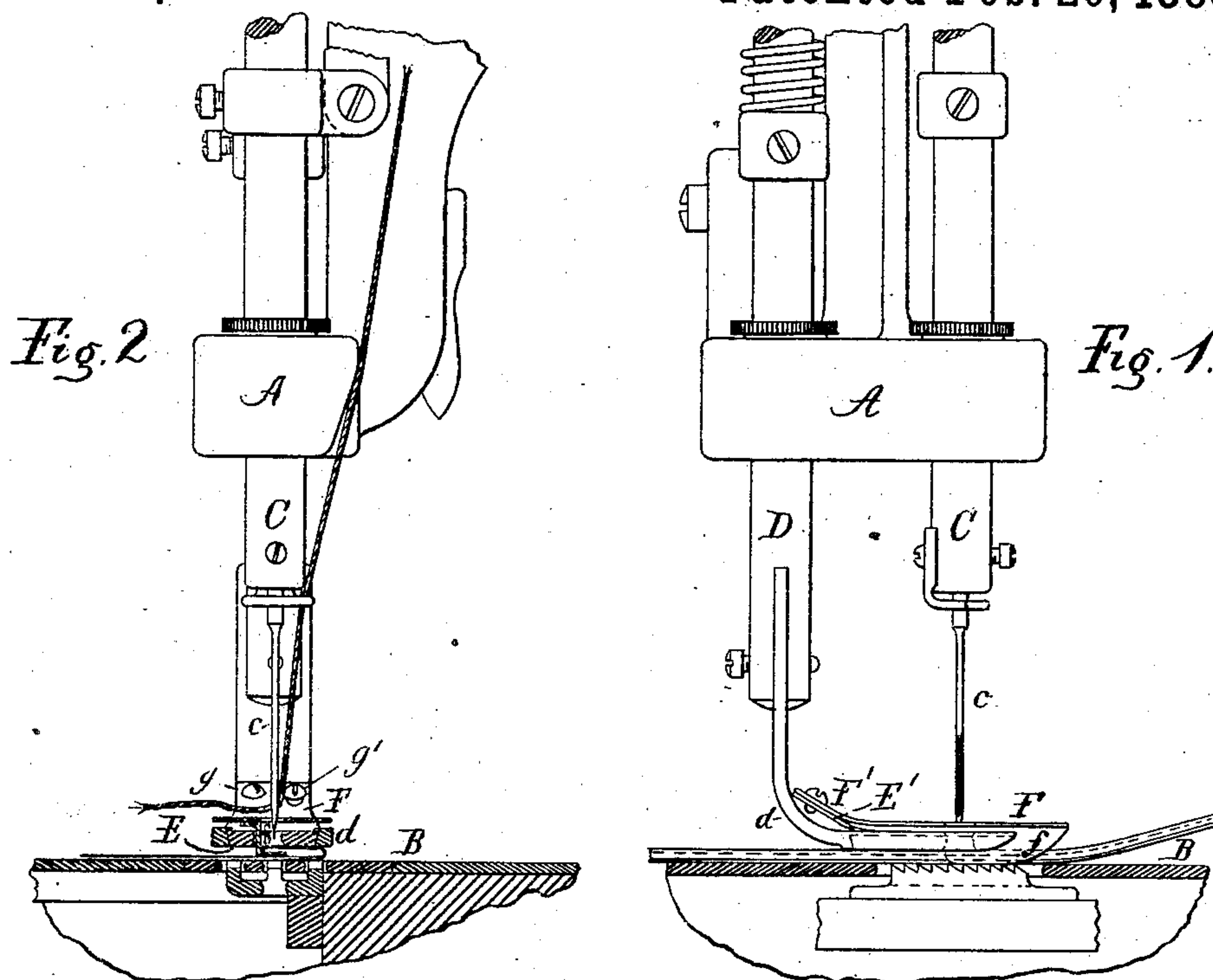


(No Model.)

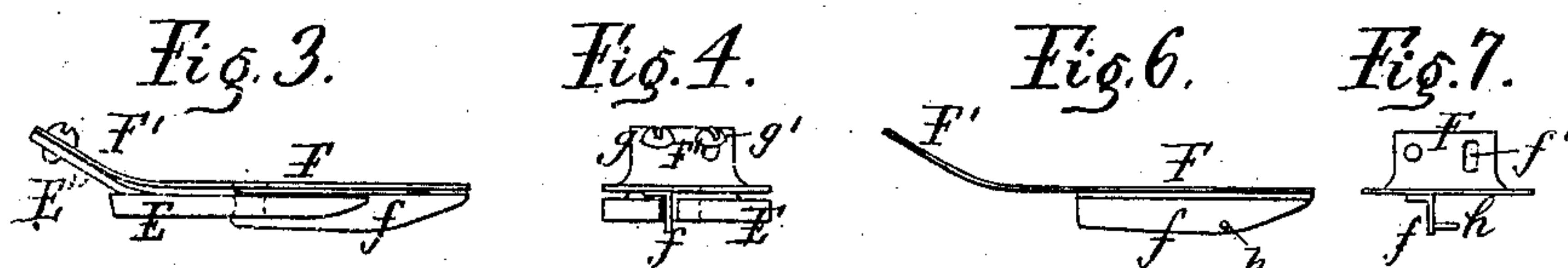
N. B. WILLIAMS.
SEWING MACHINE GUIDE.

No. 272,503.

Patented Feb. 20, 1883.



Sectional Elevations showing method of attaching Guide.



Details of Guide.



Witnesses:
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UNITED STATES PATENT OFFICE.

NATHANIEL B. WILLIAMS, OF BRIDGEPORT, CONNECTICUT.

SEWING-MACHINE GUIDE.

SPECIFICATION forming part of Letters Patent No. 272,503, dated February 20, 1883.

Application filed August 21, 1882. (No model.)

To all whom it may concern :

Be it known that I, NATHANIEL B. WILLIAMS, a citizen of the United States, residing at Bridgeport, in the county of Fairfield and State of Connecticut, have invented new and useful Improvements in Stitching-Guides for Sewing-Machines, of which the following is a specification.

My invention relates to an improved attachment adapted to be applied to the presser-foot of sewing-machines, whereby stitching may be more uniformly and accurately effected.

According to my invention I secure to the upper side of the presser-foot, by any suitable means, a flexible spring provided on its under side with a vertical elongated guide adapted to conduct a hem or fold of material continuously in proper position to be stitched; or toward the lower edge of the vertical elongated guide is formed or affixed a pin or projection adapted to hold the hem or fold of material up toward the needle, and to prevent the edge of the cloth or other material from passing underneath the guide.

The nature of my invention will be fully explained by the following specification and the accompanying drawings, which form part of the same.

Figure 1 is a side view of so much of a sewing-machine with my improved attachment applied thereto as will illustrate my invention. Fig. 2 is a similar front view, partly in section. Fig. 3 is a side view; Fig. 4, a front view, and Fig. 5 a plan, of my improved attachment separately. Fig. 6 is a side view; Fig. 7, a front view, and Fig. 8 a plan, of the spring and parts immediately connected therewith separately.

In each of the views similar letters of reference indicate like parts wherever they occur.

My invention is adapted for application to various descriptions of sewing-machines. I will, however, describe it, for the sake of illustration, adapted to that description of machine which is commonly known in the trade as the "Wheeler & Wilson" machine.

Referring to the drawings, A represents part of the main framing, and B the bed-plate, of a sewing-machine. C is the needle-bar, and c the needle. D is the presser-bar, and d the presser-foot, from which the ordinary glass

plate formed with a hole for the passage of the needle employed in Wheeler & Wilson machines has been removed. This glass plate is replaced by a metal plate, E, of similar form, provided with a hole for the passage of the needle and a slot for the accommodation of the vertical guide *f*, formed on the under side of a flexible spring, F, which, in the arrangement shown in the drawings, is secured to a projecting arm, E', extending upward from the plate E, by means of an extension, F', formed on the spring F, the extension F' of the spring F and extension E' being secured together by means of adjustable screws *g g'*, which pass freely through the spring F and are firmly secured in the plate E. The screw *g* passes through a circular hole in the spring F, while the screw *g'* passes through an elongated hole, *f'*, so formed as to allow of a slight pivotal motion of the spring F on the pin *g*, for the purpose of regulating the position of the spring F and the vertical elongated guide *f*, in relation to the needle *c*, so as to regulate the line of stitch. On the lower edge of the vertical elongated guide *f* is formed or affixed a pin or projection, *h*, adapted to hold the hem or fold of material up in position toward the needle, and to prevent the edge of the cloth or other material from passing underneath the guide *f*.

The operation of the device is as follows: The material is "turned down" and fed to the machine in such manner that the edge of the turned-down portion, after passing over the pin or projection *h*, shall bear continuously against the face of the vertical elongated guide *f*. By this means the stitches effected by the needle are insured at an equal distance or even line from the edge of the hem or fold.

Although I have shown my invention applied to a Wheeler & Wilson presser-foot, it may be readily applied to the presser-feet of other machines.

The guide *f* in all cases serves to preserve an even line of stitches.

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

1. The combination, with the presser-foot of a sewing-machine, of a stitching-guide constructed with a flexible spring, F, guide-plate

f, and pin or projection *h*, substantially as and for the purpose described.

2. A stitching-guide for a sewing-machine, constructed with a plate, *E*, arm *E'*, flexible spring *F*, and guide-plate *f*, substantially as and for the purposes set forth.

3. A stitching-guide for a sewing-machine, constructed with a plate, *E*, arm *E'*, flexible spring *F*, guide-plate *f*, and pin or projection *h*, substantially as and for the purposes shown and described.

4. The combination, with the presser-foot and needle of a sewing-machine, of a stitching-guide

constructed with a removable plate, *E*, and arm *E'*, a flexible spring, *F*, formed with an extension, *F'*, and a vertical guide, *f*, pivoted on a screw, *g*, and secured in position by a screw, *g'*, with capability of adjustment, substantially as shown and described.

In witness whereof I have hereunto set my hand this 29th day of July, 1882.

NATHANIEL B. WILLIAMS.

Witnesses:

L. S. CATLIN,

JOEL GRIFFIN.