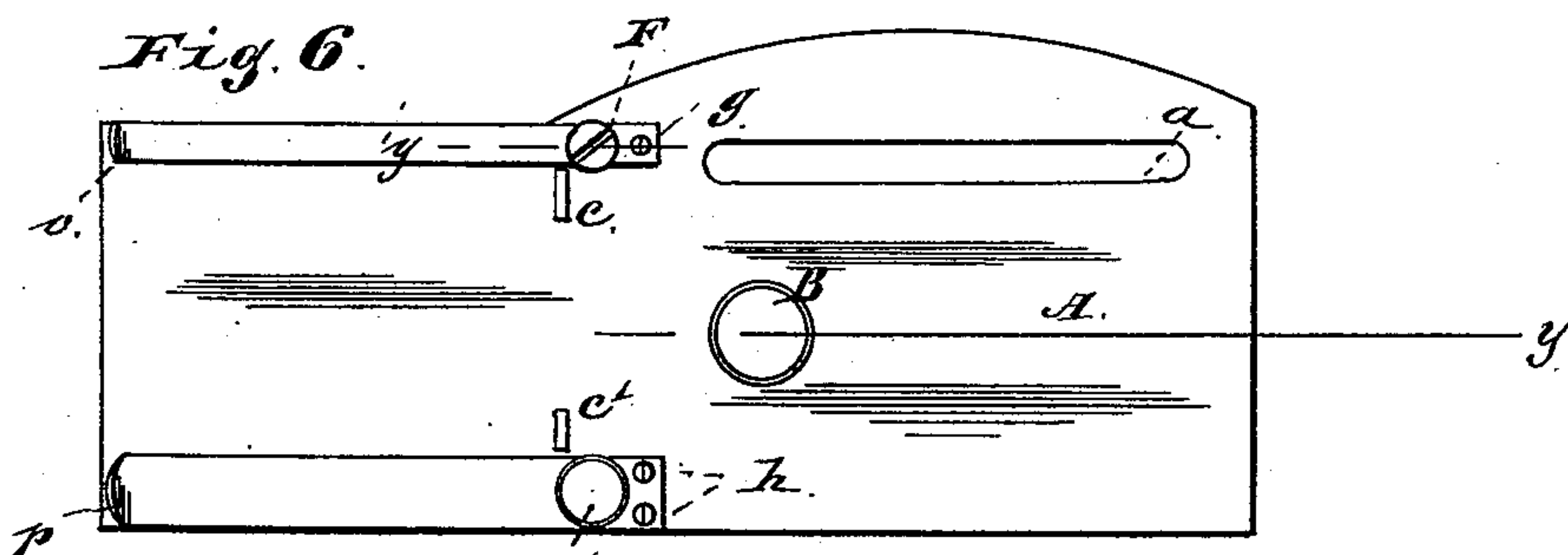
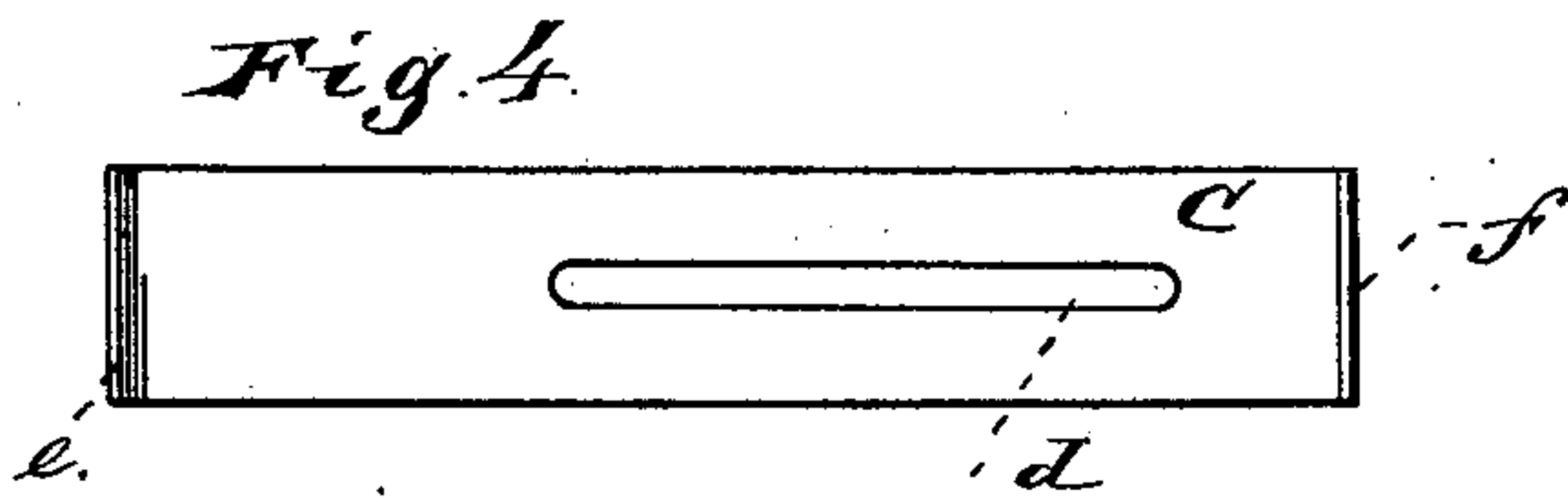
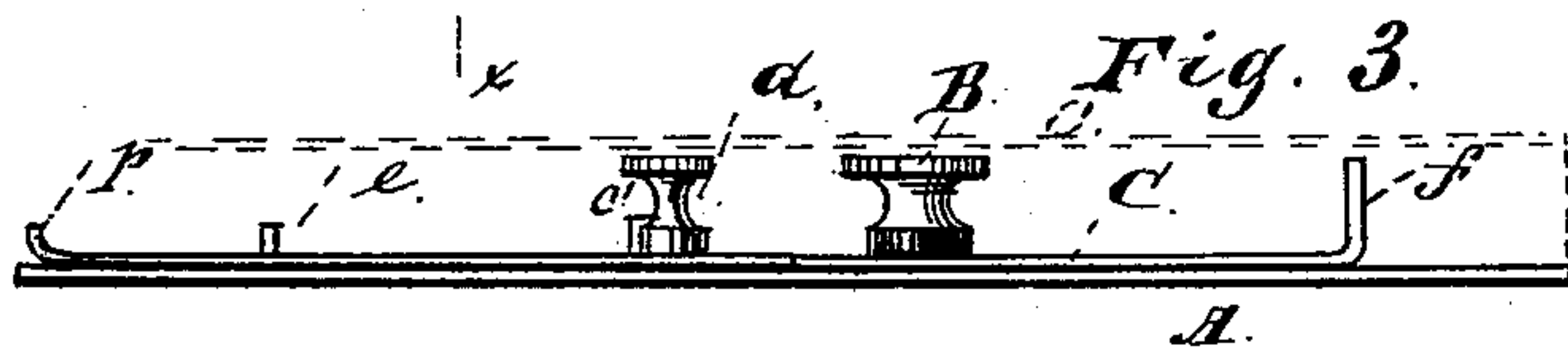
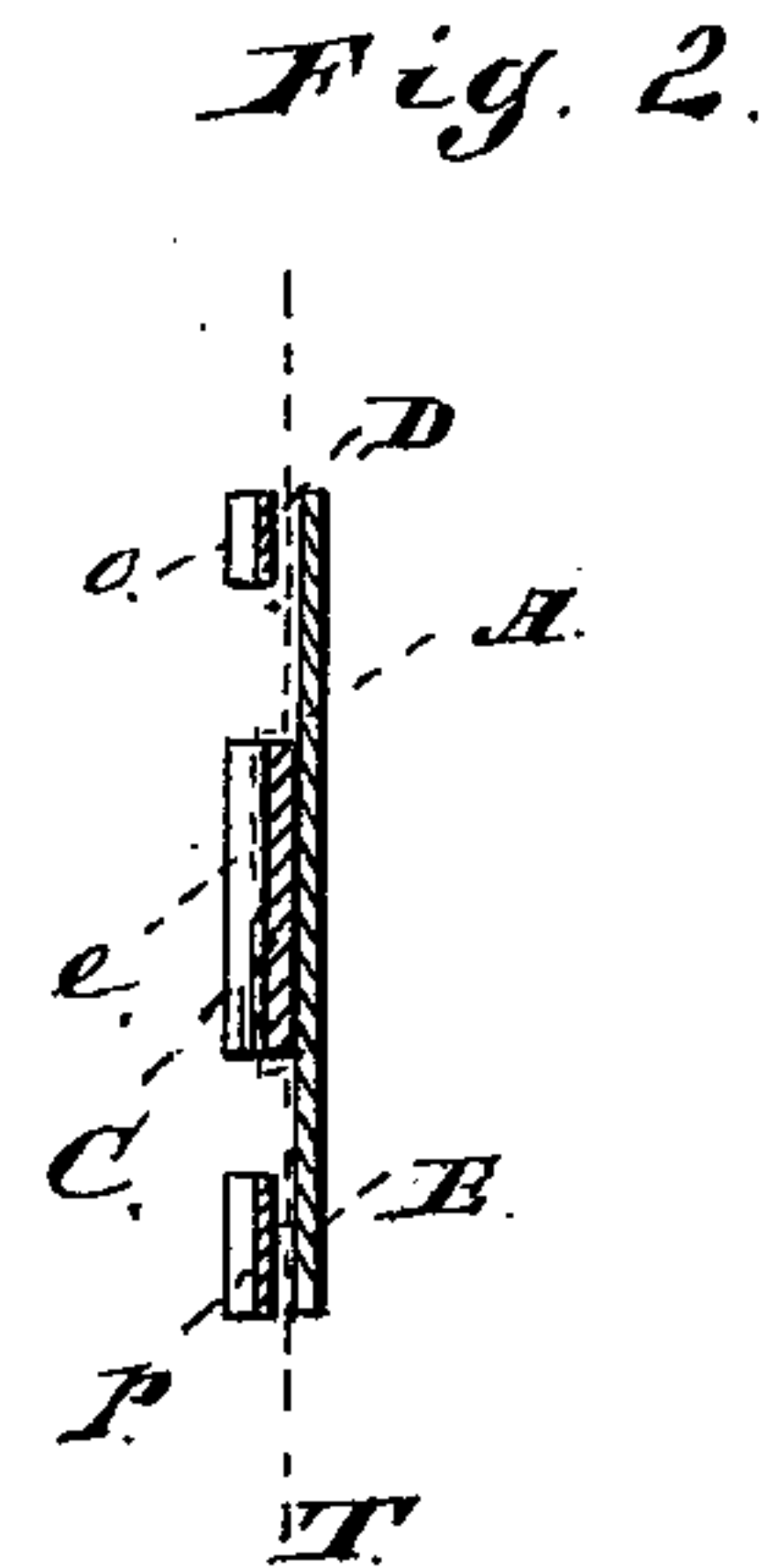
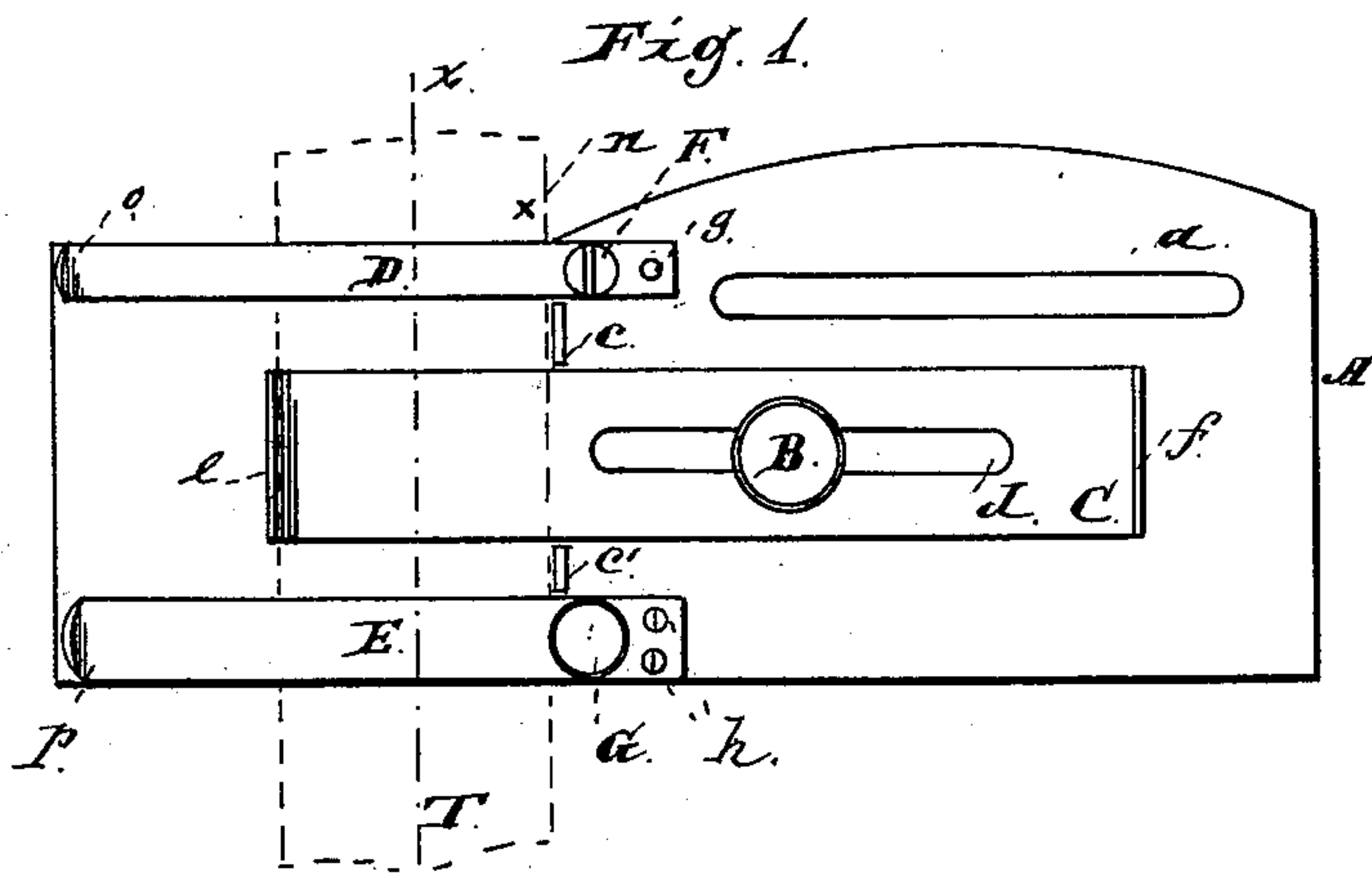


A. H. FRITSCH.

GUIDING ATTACHMENT FOR SEWING MACHINES.

No. 403,831.

Patented May 21 1889.



Witnesses.
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(No Model.)

2 Sheets—Sheet 2.

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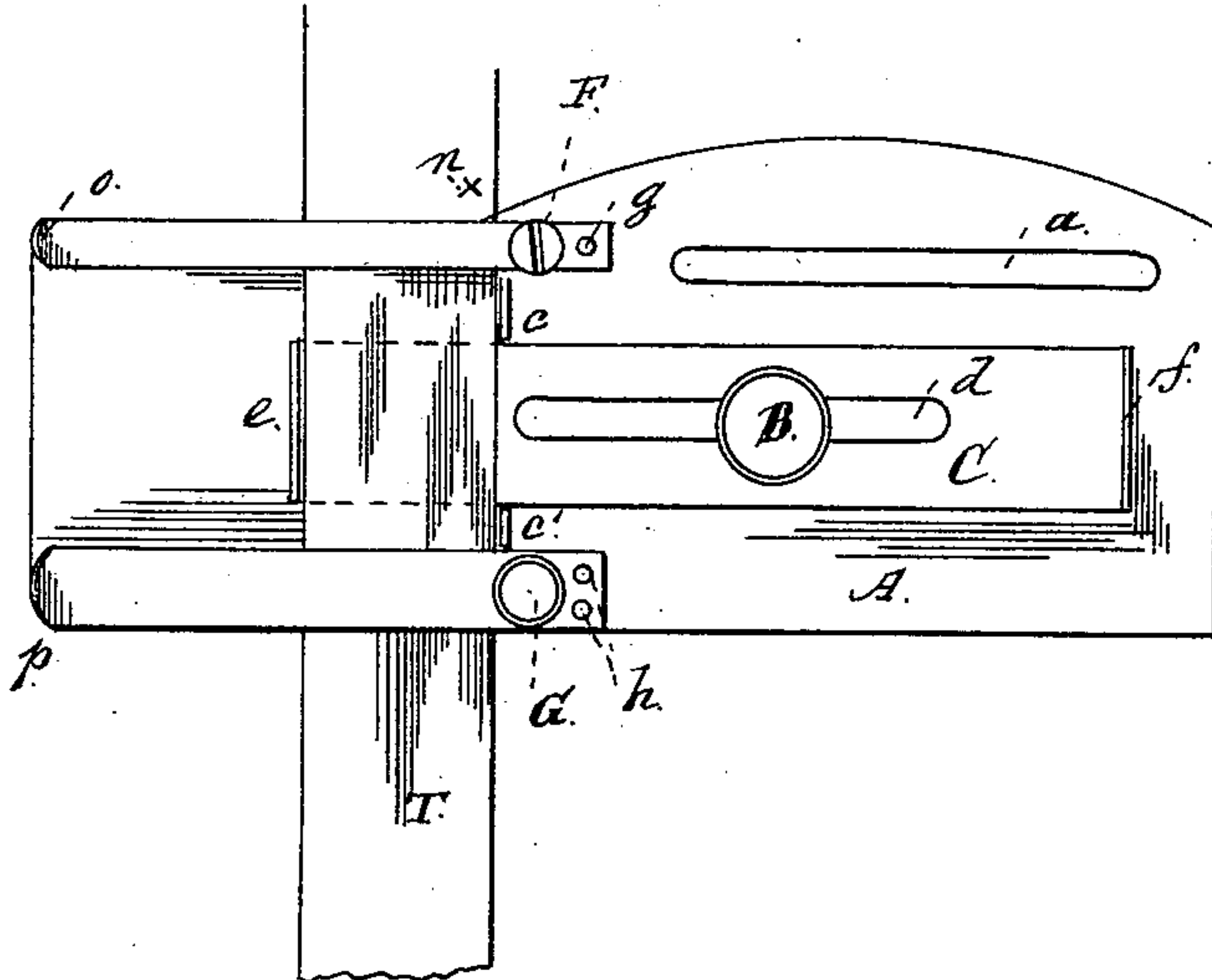


Fig. 8.

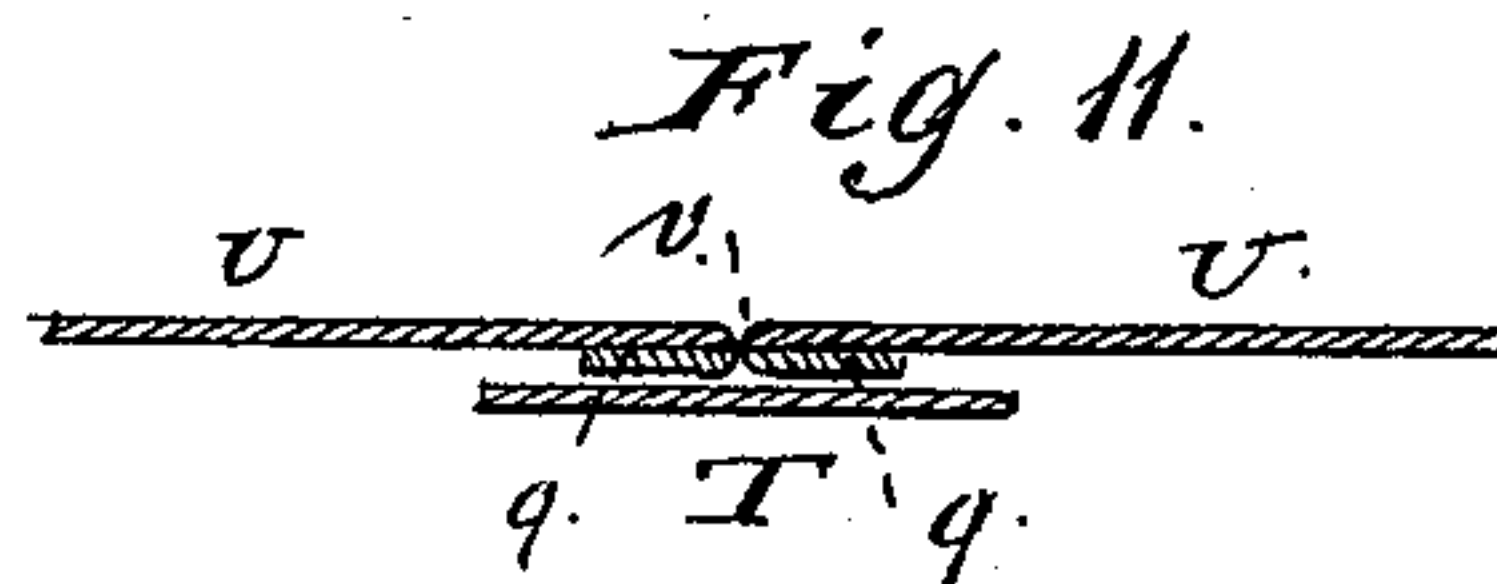
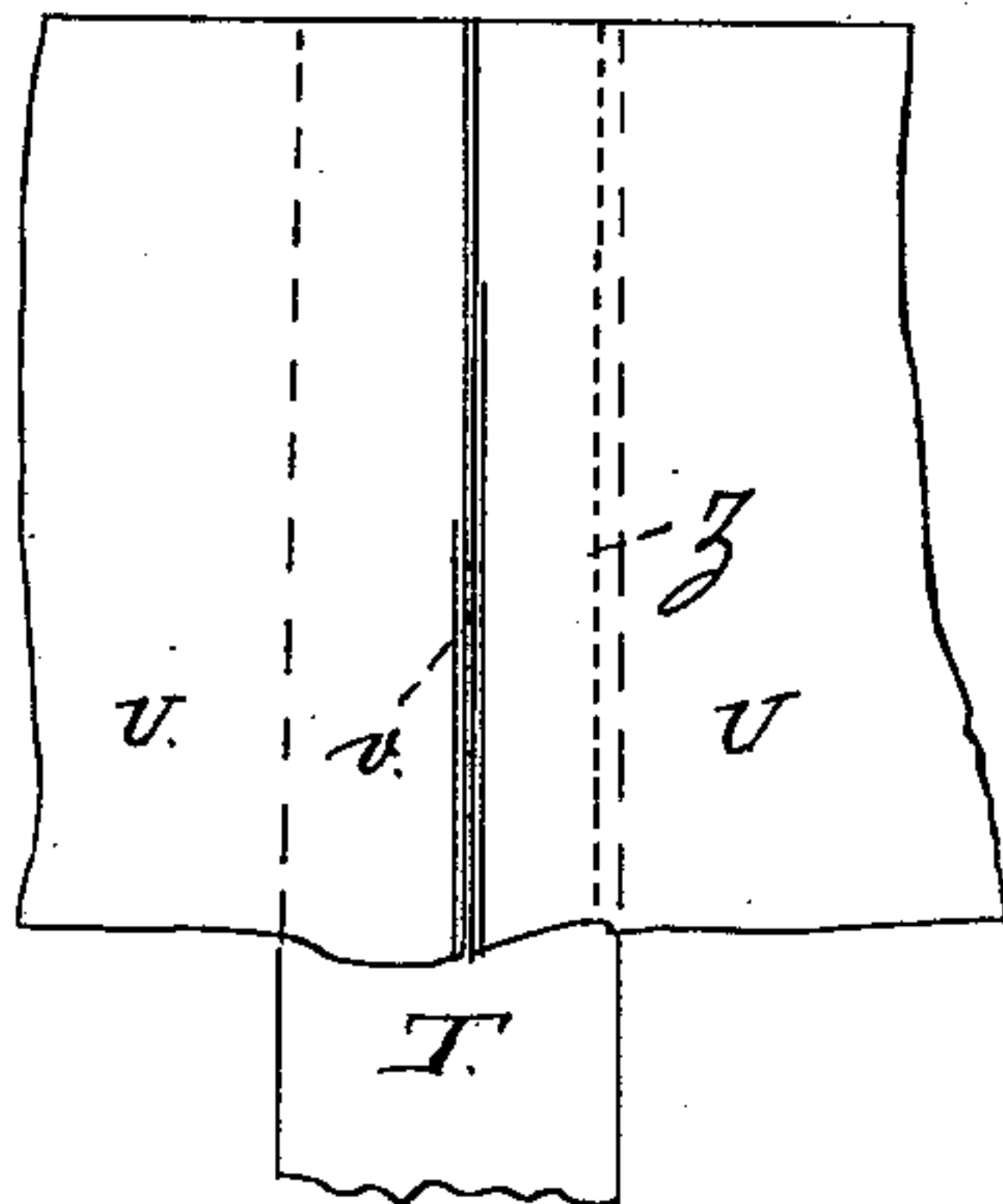


Fig. 11.

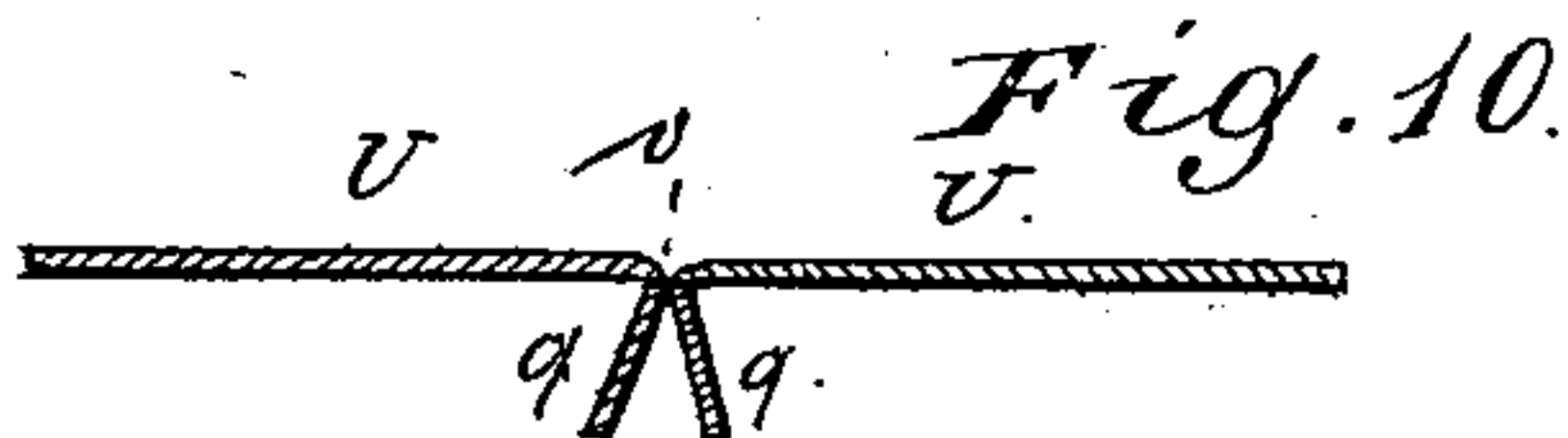


Fig. 10.

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UNITED STATES PATENT OFFICE.

ANTON H. FRITSCH, OF CHICAGO, ILLINOIS, ASSIGNOR, BY MESNE ASSIGNMENTS, OF ONE-HALF TO GUSTAV ERNST LANGER, OF SAME PLACE.

GUIDING ATTACHMENT FOR SEWING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 403,831, dated May 21, 1889.

Application filed November 16, 1887. Serial No. 255,366. (No model.)

To all whom it may concern:

Be it known that I, ANTON H. FRITSCH, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented a new and useful Improvement in Guiding Attachments for Sewing-Machines, of which the following is a specification, reference being had to the accompanying drawings and letters marked thereon.

10 In the manufacture of clothing or any other wearing-apparel it is often desirable to provide the inside or outside seams with tape for strengthening the same, or cover them up in order to do away with a full or complete
15 lining, as may be the case with hats, cloaks, &c. For so doing the difficulty to be overcome is to conduct the tape to the needle in a manner so as to follow the cloth intermittingly carried to the needle by the feeding
20 device in a smooth and straightened shape without becoming disordered by being displaced sidewise or otherwise entangled.

The object of my invention is to provide a device for a sewing-machine complying with
25 these requirements; and the same consists in a metal plate of suitable thickness provided with an adjustable guide for any width of tape and adjustable springs for giving the necessary strain or tension to the tape, of any
30 thickness, following the cloth and being stitched thereto, all of which hereinafter will be fully described.

In the drawings, Figure 1 is a plan view of my invention; Fig. 2, a section at the line *xx*
35 of Fig. 1; Fig. 3, an edge view. Figs. 4 and 5 represent the adjustable slide removed from its plate; Fig. 6, the metal plate, the slide being removed; Fig. 7, an edge view of the same, partly in section, as indicated by the line *yy*
40 in Fig. 6. Fig. 8 shows a plan view of my invention provided with tape. Fig. 9 shows the outside seam of two pieces of cloth sewed together, with tape beneath the same to cover up the inside seam. Fig. 10 represents two
45 pieces of cloth in section, the edges of which are sewed together. Fig. 11 represents the same with their edges spread out or flattened, in which position they are to be placed over the tape in the guiding attachment to be ad-
50 justed to a sewing-machine.

A is a metal plate, of suitable thickness,

provided with a slot, *a*, for a thumb-screw, by means of which it is fastened on the cloth-plate, so as to be adjusted and adapt itself to the different kinds of sewing-machines.

55 *b* is a screw-threaded aperture in the plate A for a thumb-screw, B, by means of which a sliding plate, C, is secured thereto, the same being provided with a slot, *d*, so as to be adjustable for regulating the distance between
60 the stop *e* on the sliding plate C and the stops *c* and *c'*, firmly secured to the plate A and forming guides for both sides of the sliding plate C. *f* is a projection on the same plate
65 for conveniently manipulating it in adjusting the stop *e* near to and farther off from the stops *c c'* on the plate A, according to the width of tape to be used.

D and E are springs fastened to the plate A by means of rivets *g* and *h h*, respectively. They are provided near their fast-
70 ening places with set or thumb screws F and G, for pressing them more or less to the plate A, as may be required, or making them yielding, so as to adapt themselves to the dif-
75 ferent thicknesses of the tape to be used. They are bent up a little at their outer ends, *o* and *p*, respectively, so as to allow of the tape readily being placed beneath the same,
80 at the same time passing over the sliding plate C, and being guided between the stop *e* on the movable sliding plate and the stops *c c'*, firmly secured to the plate A, as will be seen by Fig. 2, in which the tape T is repre-
85 sented in a dotted line.

The letter *n* in Fig. 1 denotes the relative position of the needle when the taping device or taper is arranged upon the clothing-plate of a sewing-machine.

The mode of operating my device is as fol-
90 lows: After having the same adjusted to the cloth-plate of a sewing-machine by means of the slot *a* in the metal plate A and a thumb-screw (not shown in the drawings) the tape to be used will be brought beneath the springs
95 D and E, at the same time passing over the sliding plate C, behind its stop *e*, and in front of the stops *c c'* on the metal plate A, whereupon the sliding plate C, by manipulating the handle *f* and setting the thumb-screw B in
100 slot *d*, is to be adjusted so as to have the tape securely guided between the stops *c, c'*, and *e*

the distance between them the width of the tape. Then the thumb-screws F and G, previously having been loosened to allow of the tape being easily brought beneath the springs, are to be tightened for subjecting the tape to a sufficient strain of tension, preventing the same from slipping sidewise or otherwise coming into disorder while being pushed forward simultaneously with the article to which it is to be stitched under the pressure-foot and upon the feed of the sewing-machine in such a direction as the operator may see fit.

In Fig. 10 two ends of cloth are shown when sewed together, and in Fig. 11 the same are represented with their sewed edges spread out or flattened to be covered up with tape. They are shown in the drawings in the same shape and position as they will be placed upon the guiding attachment. Thus, the article to be provided with tape being held under the pressure-foot and upon the tape, the same resting upon the feed of the sewing-machine and securely guided by said device, by arranging the stitches of the needle at a suitable distance from the outside seam parallel to the same, as is indicated by dotted lines *z* in Fig. 9, the article will be provided with tape in an easy and accurate manner, as may be desired. The other edge of the tape, the same now properly located, will be readily stitched to said article without said guiding attachment, unless the sewing-machine is provided with two needles, in which case the tape may be attached to an article with both edges simultaneously while being guided by said device.

When desired, the whole taping device may be provided with a covering, O, as is indicated by dotted lines in Fig. 3, so as to furnish a smooth surface over which the cloth may be conducted, avoiding any interference the parts of the taping device itself may offer.

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

1. A guiding attachment for sewing-machines, comprising a stationary plate, A, provided with the springs D and E and guiding studs or stops *c* and *c'*, and an adjustable plate, C, having a guiding-flange, *e*, whereby tape or ribbon of any desired width may be conducted under the springs and over the plate C to the stitch-forming mechanism, substantially as described.

2. In a guiding attachment for sewing-machines, a stationary plate, A, having at one end near its side edges the springs D and E, said springs being adjustable near their fastening places, and a sliding plate, C, located between said springs and being parallel to the same, said plate C being guided between the stops or studs *c* and *c'* on the plate A, said stops *c c'* forming with the stop *e* on the sliding plate a guide for any width of tape or ribbon passing over the sliding plate C and under the springs D and E, substantially as set forth.

ANT. H. FRITSCH.

Witnesses:

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