

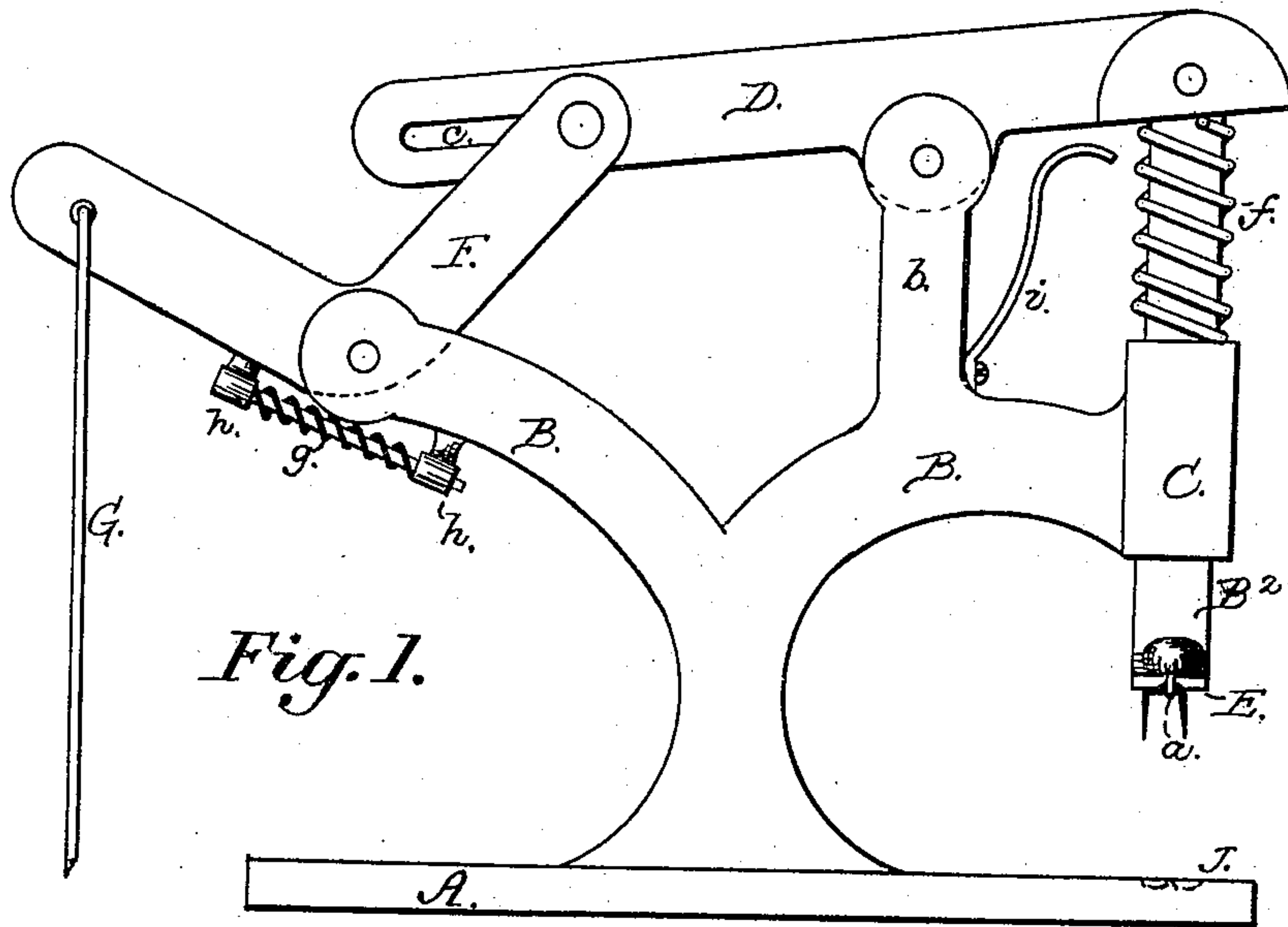
(No Model.)

G. W. PRENTICE.

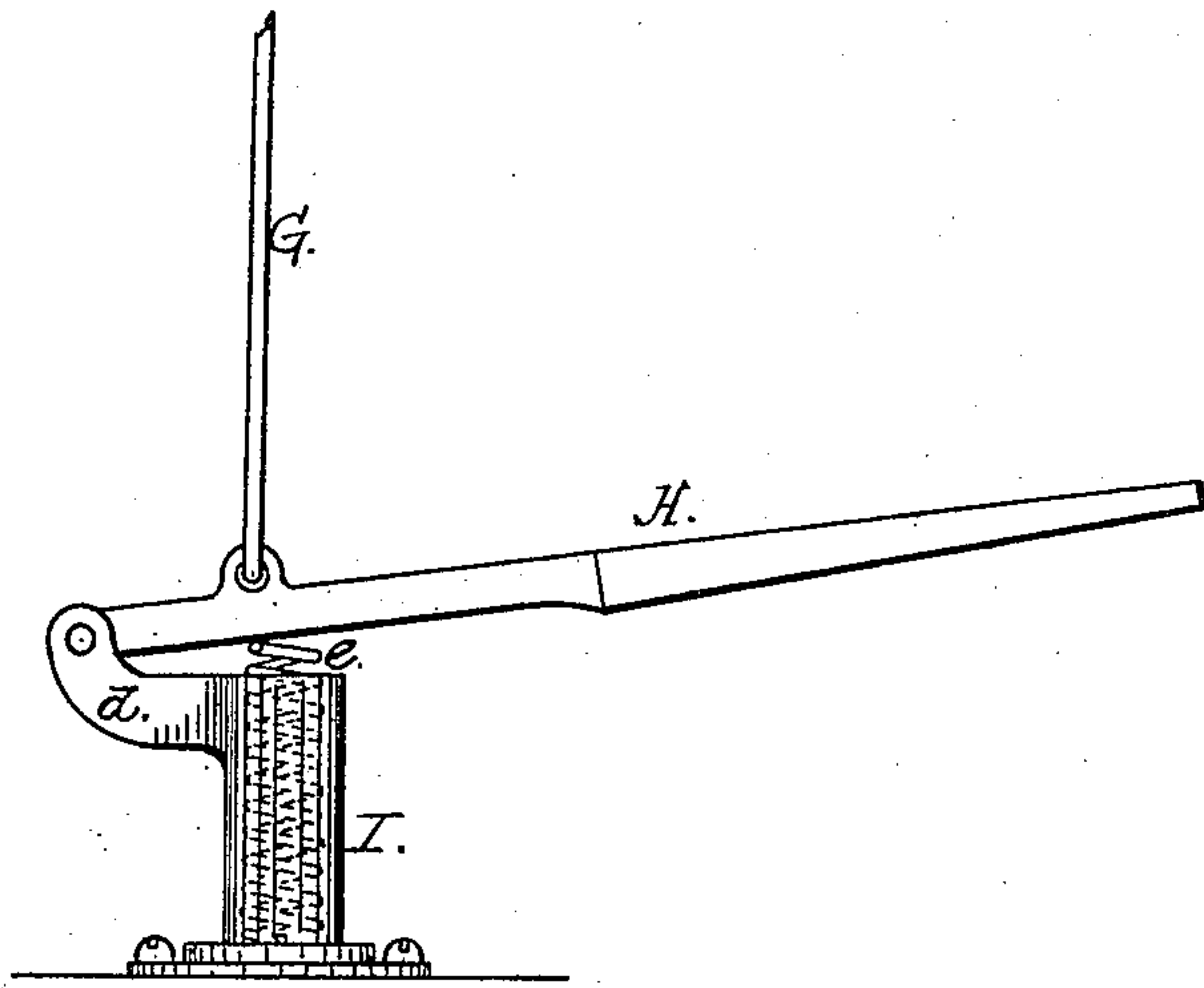
MACHINE FOR ATTACHING BUTTONS TO GARMENTS.

No. 267,587.

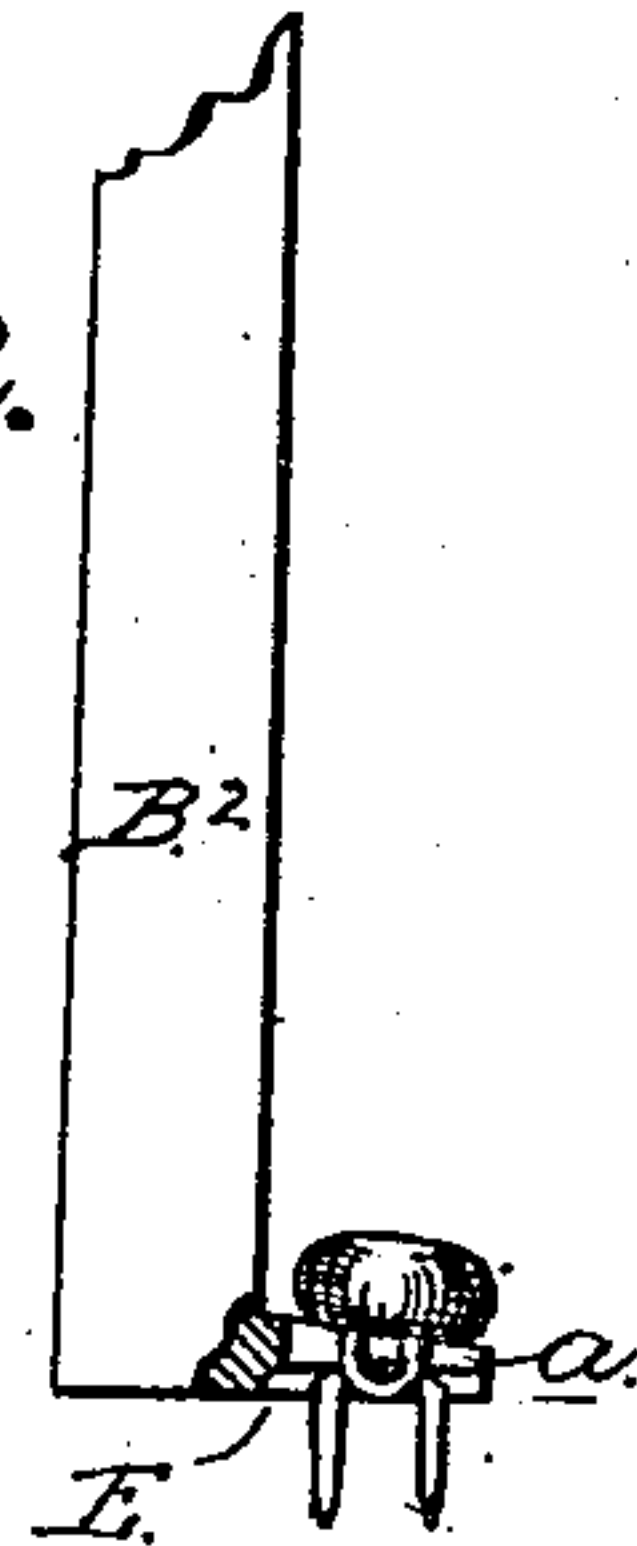
Patented Nov. 14, 1882.



*Fig. 1.*



*Fig. 2.*



WITNESSES

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# UNITED STATES PATENT OFFICE.

GEORGE W. PRENTICE, OF PROVIDENCE, RHODE ISLAND.

## MACHINE FOR ATTACHING BUTTONS TO GARMENTS.

SPECIFICATION forming part of Letters Patent No. 267,587, dated November 14, 1882.

Application filed September 18, 1882. (No model.)

*To all whom it may concern:*

Be it known that I, GEORGE W. PRENTICE, a citizen of the United States, residing at Providence, in the county of Providence and State of Rhode Island, have invented certain new and useful Improvements in Machines for Attaching Buttons to Fabrics; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

My invention relates to machines for attaching buttons to fabrics by means of suitable metallic fastening-prongs; and it consists essentially of a suitable frame provided with an upright side which is adapted to be operated by a foot-treadle or other suitable power through the medium of a series of levers and springs, the lower end of the said upright slide having an inclined or wedge-shaped projection, with a slot extending from the front to near the rear, said slot being concaved or recessed on its lower surface in such manner that the projection is adapted to receive a button and its fastening-prongs preparatory to the setting of the same.

It further consists of a die formed in the bed-plate of the frame to curve or deflect the points of the fastening-prongs back into the material to which the button is to be attached, all as will be hereinafter more fully described, and pointed out in the claims.

In the accompanying drawings, Figure 1 represents a side elevation of my complete device, and Fig. 2 a detail view of the upright slide.

Similar letters of reference indicate like parts in both figures.

In carrying out my invention the frame of the machine is preferably composed of a base or bed plate, A, and a double-curved arm, B B', projecting in opposite directions, the front portion, B', of which is provided with an upright slide, B<sup>2</sup>, which is arranged within the support C, as shown, said slide being pivoted at its upper end to a rock-shaft, D, and provided at its lower end with an inclined or wedge-shaped projection, E. This wedge-

shaped projection has a slot, a, extending through a portion of its length, and the slot is suitably concaved or recessed on the lower surface of the projection in such manner that a button and its connecting-prongs may be readily inserted in said projection previous to being attached to a fabric. The rock-shaft D, to the front end of which is pivoted the upper end of the upright slide B<sup>2</sup>, is journaled at its center in the bearings b on the upper part of the frame of the machine, and its rear end is slotted, as shown at c, for the engagement therewith of the elbow-lever F, which is pivoted at its center to the rear curved arm, B, of the main frame. At the outer end of the elbow-lever F is pivoted the upper end of the connecting-rod G, which is also pivoted at its bottom to the center of the treadle H, as fully shown in the drawings. This foot-treadle H is pivoted at its rear end to a projection, d, extending from the rear side of an upright and hollow post, I, within which is arranged a spiral spring, e, as shown.

Upon the upright slide B<sup>2</sup> is arranged a suitable spring, f, between the rock-shaft D and the supporting-frame C, and a similar spring, g, is also arranged in lugs h, between the elbow-crank F and the rear arm, B, while a suitable spring, i, is attached to the upper part of the main frame and between it and the rock-shaft D, the object of the several springs being such as to assist in the returning of the upright slide B<sup>2</sup> to its first position after the setting of each button.

On the base or bed plate of the machine, directly under the upright slide B<sup>2</sup>, is provided a suitable die, J, for curving or deflecting the prongs of the attaching device back into the material to which the button is to be secured.

In the operation of my invention the button and its connecting-prongs are securely adjusted in place upon the projection E, and the material to which the button is to be attached is placed upon the bed-plate over the die J and under the vertical slide B<sup>2</sup>, and the said slide brought suddenly down by pressing upon the foot-treadle H, which operation causes the prong of the setting device to pass through the material and to be deflected back into the same to secure the button in place in a manner well known.



I do not confine myself to the setting of one button at a time, as I may increase the number by the addition of two or more upright slides and a corresponding number of dies. I  
5 may also reverse the holding device and arrange that in the table, and make the die in the under surface of the upright slide, and in place of the wedge-shape projection I may use a spring or other equivalent device for holding  
10 the button and fastener in position, without departing from the spirit of my invention.

Having thus described my invention, what I claim as new and useful is—

1. In a machine for attaching buttons to  
15 wearing-apparel, the combination of the frame composed of the base A, double-curved arm B B', and supporting-frame C with the upright slide B<sup>2</sup>, provided with the projection or holding-jaw E, levers D and F, and the foot-  
20 treadle H, the several parts being arranged

for operation substantially as and for the purpose specified.

2. In a machine for attaching buttons to wearing-apparel, the combination of the rock-shaft D, elbow-crank F, foot-treadle H, and  
25 springs *f*, *e*, *g*, and *i* with the upright slide B<sup>2</sup> and main frame, substantially as and for the purpose specified.

3. The herein-described machine for attaching buttons to wearing-apparel, consisting of  
30 the base A, provided with the die J, curved arm B B', upright slide B<sup>2</sup>, rock-shaft D, elbow-lever F, rod G, and foot-treadle H, all substantially as and for the purpose specified.

In testimony whereof I affix my signature in  
35 presence of two witnesses.

GEORGE W. PRENTICE.

Witnesses:

F. A. SMITH, Jr.,

E. FISHER.