

(No Model.)

A. G. WILKINS & J. B. MILLER.

IMPLEMENT FOR SECURING BUTTONS TO FABRICS.

No. 321,411.

Patented June 30, 1885.

Fig. 1.

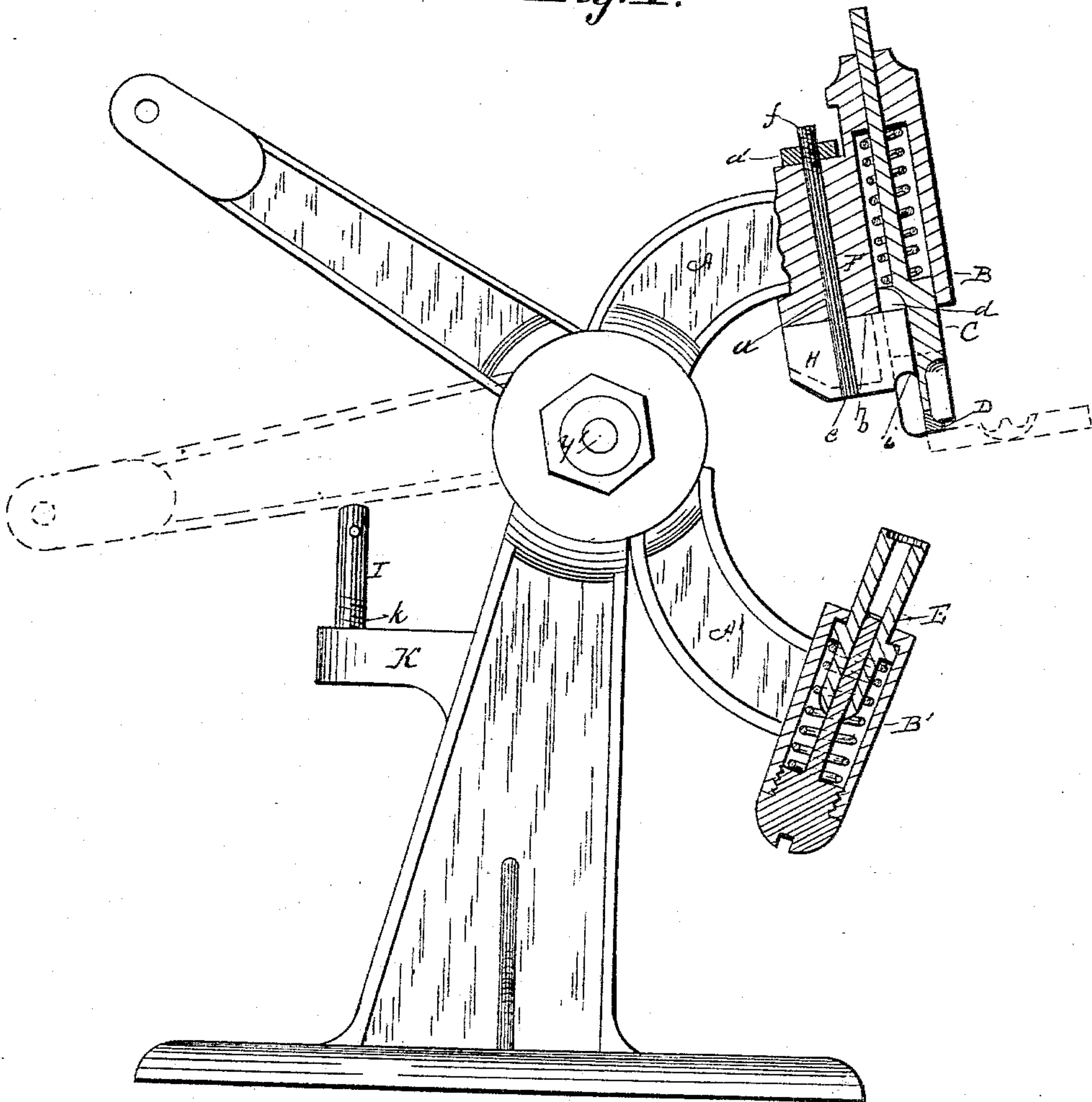
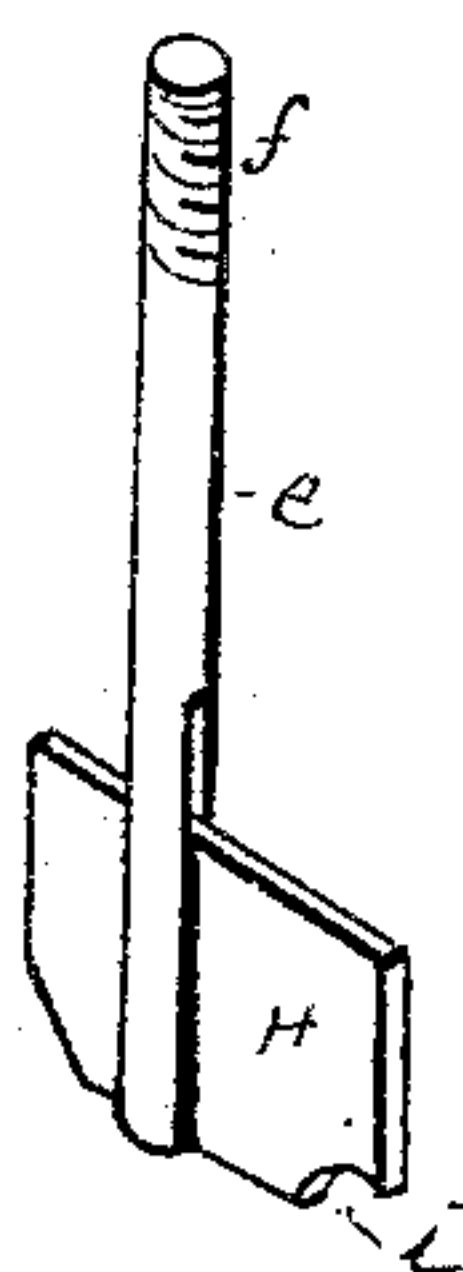


Fig. 2.



WITNESSES:

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UNITED STATES PATENT OFFICE.

ALEXANDER G. WILKINS, OF MEADVILLE, PENNSYLVANIA, AND JAMES B. MILLER, OF KENT, OHIO, ASSIGNORS TO THE RAILWAY SPEED RECORDER COMPANY, OF KENT, OHIO.

IMPLEMENT FOR SECURING BUTTONS TO FABRICS.

SPECIFICATION forming part of Letters Patent No. 321,411, dated June 30, 1885.

Application filed January 27, 1885. (No model.)

To all whom it may concern:

Be it known that we, ALEXANDER G. WILKINS, of Meadville, in the county of Crawford and State of Pennsylvania, and JAMES B. MILLER, of Kent, Portage county, and State of Ohio, have invented a new and Improved Implement or Machine for Securing Buttons to Fabrics; and we hereby declare the following to be a full, clear, and exact description 5 of the same, reference being had to the accompanying drawings, making part of this specification, in which—

Figure 1 is a side elevation showing a bench-machine embodying our improvements, the 10 working parts being in section. Fig. 2 is a detail of the removable adjustable clinching-die.

In the class of button-fastening machines to which our invention relates it is highly desirable that the clinching-die may be easily replaced when worn or broken, and it is also desirable to set the machine so as to make high or low loops, as the user may desire or require.

To this end our invention consists in a peculiarly-constructed removable clinching-die 25 and an adjustable stop so arranged as to prevent the jaws of the machine from approaching each other beyond a predetermined point, all of which will be hereinafter fully described, and specifically pointed out in the claim.

In order that those skilled in the art may make and use our invention, we will proceed to describe the manner in which we have carried it out.

For purposes of illustration we have shown 35 our invention as applied to a bench-machine having one jaw fixed and the other jaw adapted to be attached to a treadle by means of a connecting-rod, and having a retracting-spring to hold the jaws normally open, as is 40 usually applied to such bench-machines.

Ordinary mechanical appliances well known in the art and ordinary mechanical skill can convert the machine illustrated into a hand-machine without departing from the spirit of 45 our invention.

In the said drawings, A A' are the jaws, provided with barrels B B', cast on their ends, the barrel B containing the spring-bolt C, provided on its lower end with a spring button- 50 holding latch, D, and the barrel B' containing the telescopic spring fastener-holding device E, the details of which it is not necessary in this patent to describe.

Immediately behind barrel B the jaw is 55 bored at *a*, and lengthwise the machine, through the hole so bored, is cut a slot, *b*, the slot *b* and the lower portion of hole *a* being in a lump or projection, F, cast integral with the head. The slot *b* is in line with and behind a slot, *d*, cut in the sliding bolt C to receive the upsetting-die. 60

The upsetting-die consists of a shank, *e*, having its upper end threaded at *f*, and carrying in its lower end a thin metallic piece or 65 blade, H, one edge of which rests within slot *d* in barrel B and bolt C when the shank *e* is inserted into hole *a*, and secured by nut *a'*. The lower corner of the edge of blade or piece H, which projects into slot *d*, is cut away in a 70 curved line, as seen at *i*, and the face of this curved edge acts on the point of the fastener-pin and coils it around the button-eye. The construction of the bearing-surfaces of this upsetting-die and the socket to receive it 75 make it exceedingly easy to manufacture, strong and steady in operation, and easily removable and interchangeable. Moreover, it can be easily and quickly adjusted with the other working parts of the machine. 80

In order that the loops of the fastening-pins may be left of a predetermined length when finished, I provide between the projections of the jaws, behind the pivot *y'*, an adjustable stop, I, which in the present instance is 85 shown as resting in a bracket or lump, K, cast on the stationary jaw-piece of the machine. The adjustable stop I is a bolt having a screw-thread, *k*, on its lower end, which the bracket K is tapped to receive. The upper end of the stop I being in the line of travel of the approaching jaw extensions or arms, one jaw- 90

arm brings up against its upper end, and further approach of the jaws is stopped and any further crushing down of the loop prevented.

By screwing stop I into the bracket and
5 withdrawing it, the position of its upper end is changed so as to stop the approach of the jaws at any desired point.

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

The head provided with slotted bolt C, and slotted and bored at *b a*, in combination with

upsetting-die provided with shank *e*, and curved corner *i*, all constructed substantially as set forth.

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Witnesses to Wilkins' signature:

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Witnesses to Miller's signature.

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