

C. Rehfuß,

Button Fastening Mach

N^o 52885.

Patented Feb. 27/1866.

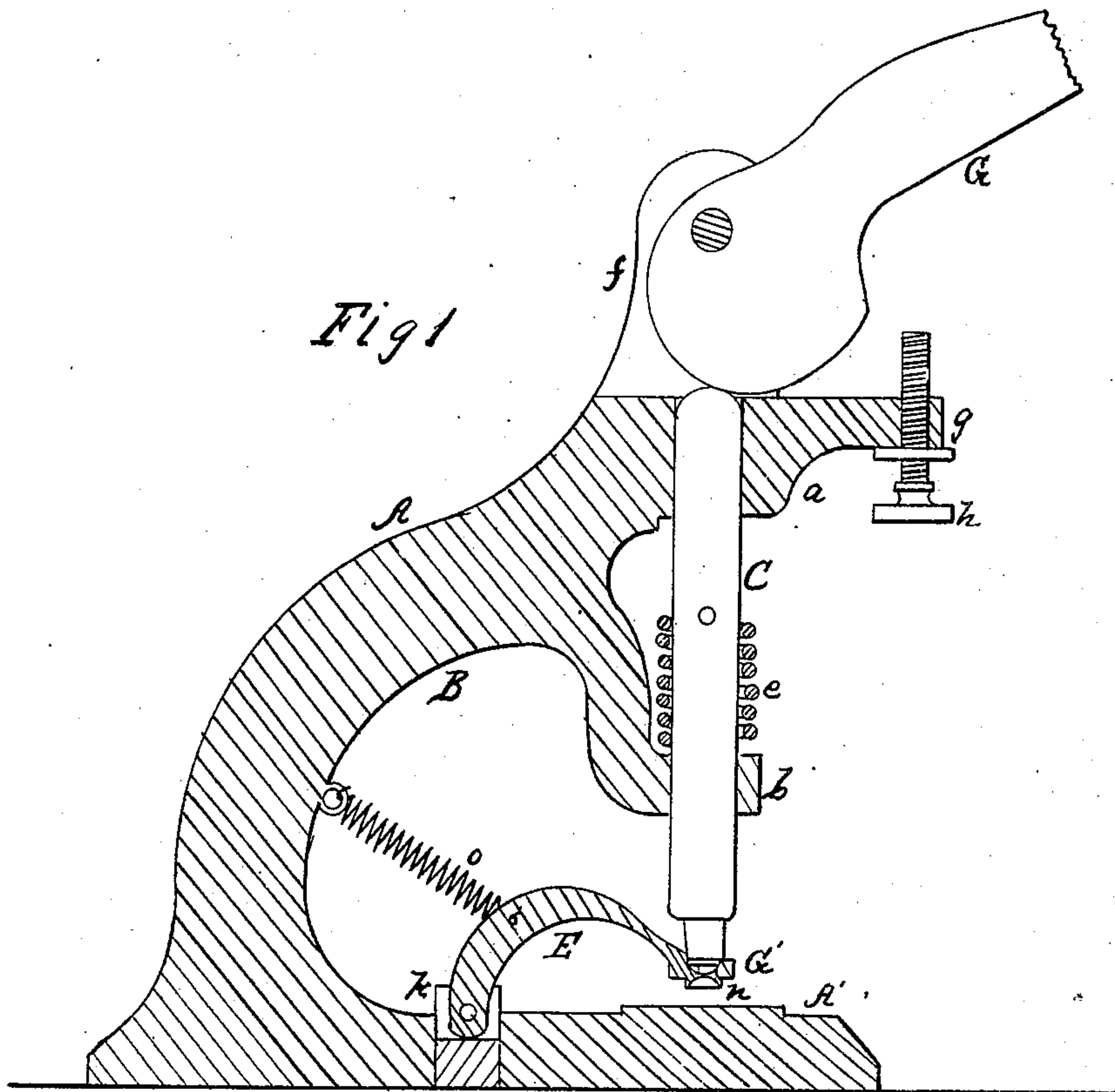


Fig 2.

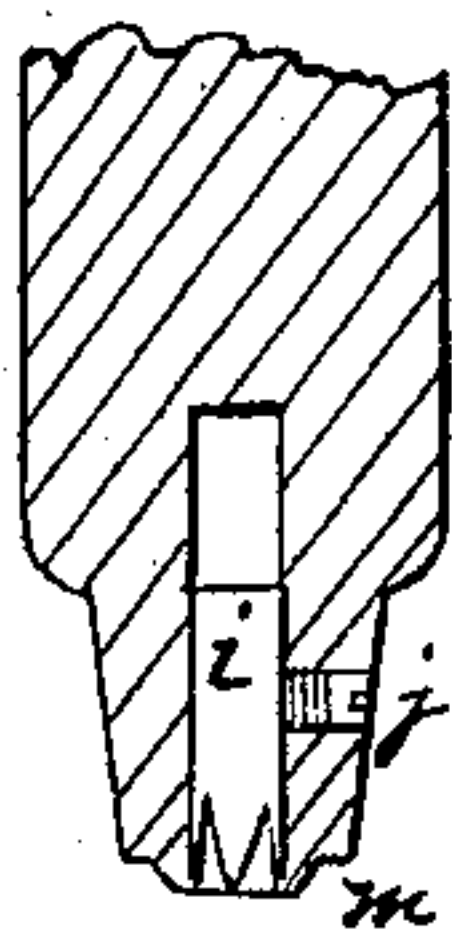
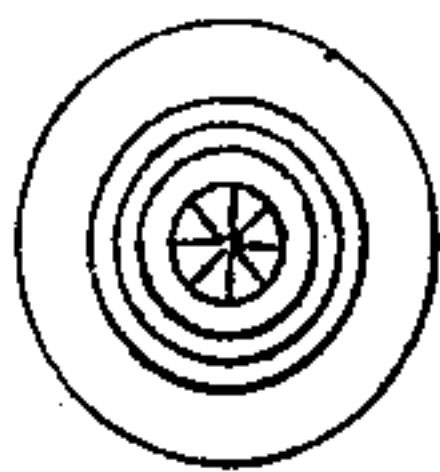


Fig 3



Witnesses

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Inventor.

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By his attorney
H. Howson
per C. Foster.*

UNITED STATES PATENT OFFICE.

GEORGE REHFUSS, OF PHILADELPHIA, PENNSYLVANIA.

IMPROVEMENT IN APPARATUS FOR SECURING BUTTONS TO FABRICS.

Specification forming part of Letters Patent No. 52,885, dated February 27, 1866; antedated February 16, 1866.

To all whom it may concern:

Be it known that I, GEORGE REHFUSS, of Philadelphia, Pennsylvania, have invented an Improved Machine for Facilitating the Attachment of Buttons to Fabrics; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

My invention relates to that class of buttons which are secured to fabrics by means of metal rivets; and my invention consists in devices, fully described hereinafter, for forming the head on the rivet and imparting to the same a neat and regular finish.

In order to enable others to make and use my invention, I will now proceed to describe its construction and operation.

On reference to the accompanying drawings, which form a part of this specification, Figure 1 is a sectional elevation of my machine for facilitating the attachment of buttons to fabrics; Fig. 2, a detached view drawn to an enlarged scale, and Fig. 3 an inverted plan view of Fig. 2.

A is the frame of the instrument, which consists of the base A' and the overhanging arm B, and on the front end of the latter are two projections, *a* and *b*, through which passes the rod C. A coiled spring, *e*, surrounds the rod C, and tends to maintain the upper end of the latter against the cam-shaped end of a lever, G, hung to a pin passing through two lugs, *f*, on the upper side of the arm B. On the front of the projection *a* is a lug, *g*, through which passes a set-screw, *h*.

At the lower end of the rod C is a cylindrical orifice for receiving a die, *i*, on the end of which are cutting-edges arranged in the form of a cross, the die being secured in its place by a set-screw, *j*, and on the end of the rod C, around the orifice containing the die *i*, is an annular projection, *m*.

To pins passing through lugs *k* on the base A is hung an arm, E, on the front end of which is a block or die, G', and on the upper side of the latter is a depression adapted for the reception of the end of the rod C, and on the lower side an annular lug or projection, *n*, the surface of which is concave, for a purpose described hereinafter.

A spring, *o*, is secured to both arms B and E, and tends to maintain the latter in an elevated position.

After the stem of a rivet has been introduced into the fabric the rod C is elevated and the fabric is brought beneath the same, so that the head of the rivet will rest on the base A' directly below the end of the rod.

On the upper end of the rivet is placed a button, in the center of which is a concave depression corresponding with the projecting ridge *m* on the end of the rod C, the end of the rivet projecting slightly into an opening in the center of the button. The arm G is now moved so as to depress the rod C, which is thus brought against the button, the projection *m* fitting into the depression on the face of the same, so that the center of the die and the center of the rivet will coincide with each other. As the rod C is further depressed the button will be forced down tight onto the rivet and the cruciform end of the die will be brought against the end of the same, indenting it and firmly securing the button to the fabric. The rod C is then again raised, and the lever E is depressed until the die G' rests upon the newly-formed head of the rivet. The end of the rod is then brought against the upper side of the die, so as to force the projection *n* against the rivet, the concave surface of the projection imparting to the head of the rivet a neat and regular finish.

By adjusting the set-screw *h* the movement of the arm G may be so regulated as to determine the exact amount of pressure to be applied to the head of the rivet.

I claim as my invention and desire to secure by Letters Patent—

The lever E, with its die G', in combination with the frame A and rod C, the whole being arranged and operating substantially as and for the purpose specified.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

GEO. REHFUSS.

Witnesses:

CHARLES E. FOSTER,
W. J. R. DELANY.