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UNITED STATES PATENT OFFICE.

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IMPROVEMENT IN MACHINES FOR ATTACHING BUTTONS.

Specification forming part of Letters Patent No. 118,743, dated September 5, 1871.

To all whom it may concern:

Be it known that we, WILLIAM S. PLATT, of Waterbury, in the county of New Haven and State of Connecticut, and GEORGE J. CAPEWELL, of Cheshire, in the county and State aforesaid, have invented a new and Improved Machine for Attaching Buttons; and that the following is a full and exact description of the same, reference being had to the accompanying drawing and to the letters of reference marked thereon making a part of this specification.

The object of this invention is to provide a means for readily attaching buttons having a metallic fastening to the garment. The invention consists in attaching buttons to garments by means of the machine hereinafter described.

In the accompanying drawing, Figure 1 represents a side view of our machine; Fig. 2, a plan view; Fig. 3, an end view; Fig. 4, side view of treadle; Figs. 5, 6, and 7, detailed views of button, needle, and eyelet.

Similar letters of reference indicate like parts in the several figures.

A represents the base of our machine, which may be made of cast-iron or any other suitable material. Cast with this base are two upright bearings, *a b*. B is the presser-head, which is also made of cast metal. This presser-head is in shape like a bell-crank, having trunnions *j j* cast onto the lower angle, so that it may be allowed to turn in the bearing *a*. Passing through and attached to the outer angle of said presser-head is the die *e*, and to the third angle of said presser-head is attached, by a knuckle-joint at one end, the intermediate link *d*. The other end of said intermediate link is attached, by a knuckle-joint, to the inner end of the main lever C, the main lever C being made of cast-iron or other suitable material, and so constructed as to turn upon trunnions *k*, or in any other desirable way within the bearing *b*, the outer end of said lever extending back from said bearings beyond the base A and terminating in an eye, *s*. The die *e* on its face may be of any desired size or shape to conform to the shape of the button it is designed to attach to the garment, the part of said die extending upward into a screw, *p*, which screw fits into corresponding

screw-threads, cut into the forward angle of the presser-head. In order to adjust the die *e* a set-screw, *m*, is affixed to the screw *p*, by which means said die may be extended or drawn into the presser-head, as desired. Secured to the front part of the base A by a screw, *y*, or any other desirable way, is an anvil, *t*, having fitted to two of its sides, by screws *h h*, the flat springs *g g*, these springs slightly projecting above the top surface of the anvil, and their upper edges bent slightly inward. The anvil is of wedge-shape, and its upper surface is slightly beveled from rear to front, and has formed therein a countersink.

To use our machine it is simply necessary to insert the base of a needle, *v*, into the eyelet or rivet *w*; pass the head of said eyelet or rivet between the springs *g g*, as shown in Fig. 3; force the garment or cloth over the needle *v* until the rivet or eyelet *w* protrudes through the same; remove the needle *v*; and then, by means of a rod, *r*, one end of which passes into the eye *s* of the main lever C and the other end to the treadle D, the main lever C is brought down, which forces down the outer end of the presser-head, to which has been attached a button, *a'*, the face of said button being placed next the face of the die *e*, and held in such position by the tongue *f*, and causes the eyelet or rivet *w* to enter into the neck of said button and upset against the cone *b'* of said button. This being done, the pressure of the foot being removed from the treadle, the presser-head resumes its open position (see Fig. 1) through the action of spring, E, in said treadle, and the button is slipped off the anvil *t*, and so from time to time as new buttons are applied.

Near the rear end of the base A is cast a projection, *l*, upon which the under side of the main lever C is brought in contact, thereby preventing the presser-head from battering the anvil by accidental blows, and also to insure the die upsetting the rivet to an equal extent in each instance.

The machine may be attached to a standard or table by way of support.

Having thus described our invention, what we

claim as new, and desire to secure by Letters Patent, is—

1. A machine for putting buttons with eyelets or rivets onto garments, composed of a base, A, presser-head B, intermediate link *d*, main lever C, anvil *t*, springs *g g*, tongue *f*, and adjustable die *e*.

2. A machine for attaching buttons to gar-

ments, provided with the tongue *f*, constructed and operating as herein shown and described.

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Witnesses:

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