(No Model.)

C. M. PLATT.

BUTTON.

No. 422,624. Patented Mar. 4, 1890.

Fig: 3.

Fig: 1.

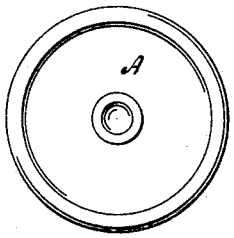

Fig: 4.

Fig: 2.

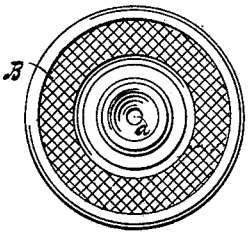

Fig: 7

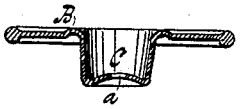

Fig: 5.

Fig: 6.

Fig: 10.

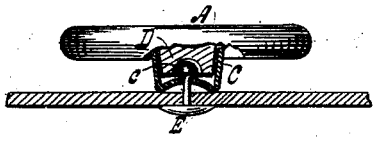

Fig: 8.

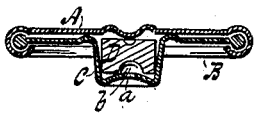

Fig: 9.

WITNESSES:

Chas. Nida

D. A. Carpenter

INVENTOR

Clark M. Platt,

BY Geo. W. Chapman.

ATTORNEY

UNITED STATES PATENT OFFICE.

CLARK M. PLATT, OF WATERBURY, CONNECTICUT, ASSIGNOR TO THE PATENT BUTTON COMPANY, OF SAME PLACE.

BUTTON.

SPECIFICATION forming part of Letters Patent No. 422,624, dated March 4, 1890.

Application filed March 13, 1889. Serial No. 303,145. (No model.)

To all whom it may concern:

Be it known that I, CLARK M. PLATT, of Waterbury, in the county of New Haven and State of Connecticut, have invented a certain new and useful Improvement in Buttons, of which I declare the following to be a full, clear, and exact description, reference being had to the accompanying drawings, forming part of this specification.

This invention has for its object an improvement in buttons; and the invention consists of a button with its several parts constructed, combined, and arranged in the manner herein shown, described, and claimed.

In the accompanying sheet of drawings, Figure 1 is a plan or top view of my button; Fig. 2, a top view of the lower plate; Fig. 3, a section of the face-plate; Fig. 4, a section of the die; Fig. 5, a side view of the die; Fig. 6, a view of the under side of the die; Fig. 7, a section of the lower plate; Fig. 8, a section of a finished button, showing the die in position; Fig. 9, an elevation of the pointed rivet; Fig. 10, a view of button, partly in section, attached to a piece of fabric.

Simliar letters of reference indicate like parts in the several views.

This invention relates particularly to buttons which are designed to be attached to garments by means of a sharp-pointed rivet. The advantage arising from the use of sharpened rivets lies in the fact that they will penetrate the fabric of the garment when being applied without the necessity of first puncturing the cloth, and this cheapens as well as facilitates the operation of attaching the buttons.

Sharpened rivets have been used for securing buttons to garments, and I therefore make no broad claim in this application to their employment for that purpose; but such previous use has been in connection with devices in the nature of an anvil that would turn the point of the rivet more or less on one side or the other to form a clinch, so that the strength of the rivet after all depended largely upon the stiffness and tenacity of this turned-over part, weakened as it was by the bending of the metal, and in some instances the point of the rivet was formed into a head to better strengthen the fastening and as a substitute for the clinching, such heading being accomplished by the use of mechanism more or less expensive and complicated.

To utilize the pointed rivet and avoid the weak clinch and expensive machinery, I construct my button with a face-plate A, of any desired pattern, and with a lower plate B, formed with a hub C, which hub is centrally perforated by a hole *a*. A die D is provided, of steel or other hard metal, and having dimensions that will permit its insertion in the hub C of the button, the hub forming a pocket for that purpose. In the lower part of this die is drilled a cavity *b*, so that when the die is within the hub of the button, as stated, this cavity will be coincident with the hole *a* in the hub. The die being placed in the hub and the face and bottom plates united in the usual manner, the die is held fixedly in place between the two plates of the button. The pointed rivet E having been inserted in the fabric or garment from one side, its point passes through the hole *a* of the button, which is placed on the other side of the garment, and by pressure, as by a descending plunger in a rivet-setting machine, or even by a blow with a hammer, the point of the rivet is forced into the cavity of the die, and in that cavity, or by reason thereof, is formed into a symmetrical head *c*. This head being larger than the hole in the hub of the button, the rivet cannot afterward be withdrawn, and the attachment of the button to the garment is completed. The head so formed on the pointed end of the rivet is not only symmetrical in form, but it is condensed into such a degree of solidity as to prevent its fracturing by any strain to which the button when in use might be subjected.

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

In a button, the combination of the top plate A, the bottom plate B, having the hub C and the single central perforation *a*, and the die D, confined between said plates, the die being provided with a cavity *b*, adapted to form a symmetrical head on the sharpened end of a fastener with a single stem passed through the perforation *a*, substantially as and for the purpose described.

CLARK M. PLATT.

In presence of—
LUCIEN F. BURPEE,
S. W. KELLOGG.