

No. 650,212.

Patented May 22, 1900.

C. WOOSTER.
BUTTON.

(Application filed Oct. 9, 1899.)

(No Model.)

Fig. 1.

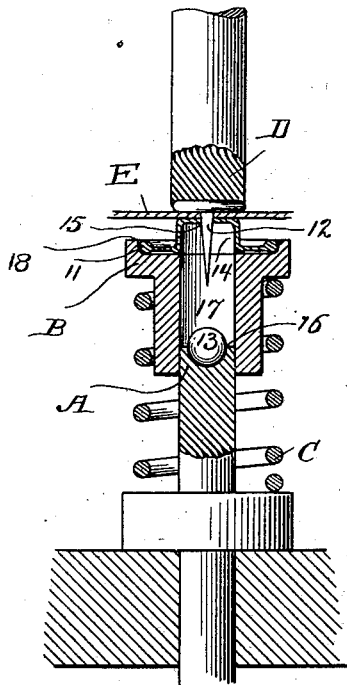


Fig. 2.

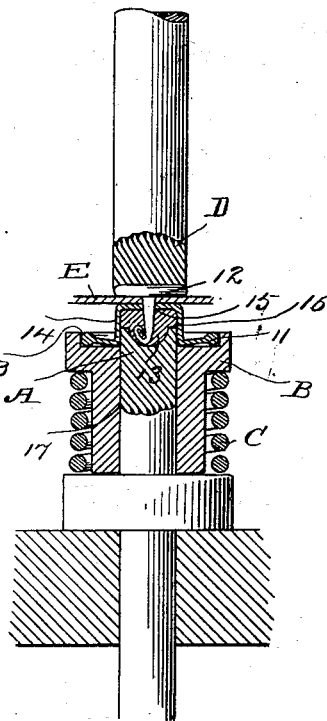


Fig. 3.

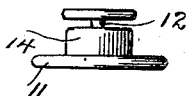
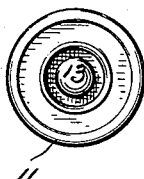


Fig. 4.



WITNESSES

H. A. Lamb
S. M. Atchison

INVENTOR

Clarence Wooster
By A. M. Wooster
Atty.

UNITED STATES PATENT OFFICE.

CLARENCE WOOSTER, OF SAUGATUCK, CONNECTICUT, ASSIGNOR TO THE
SAUGATUCK MANUFACTURING COMPANY, OF SAME PLACE.

BUTTON.

SPECIFICATION forming part of Letters Patent No. 650,212, dated May 22, 1900.

Application filed October 9, 1899. Serial No. 733,026. (No model.)

To all whom it may concern:

Be it known that I, CLARENCE WOOSTER, a citizen of the United States, residing at Saugatuck, county of Fairfield, State of Connecticut, have invented a new and useful Button, of which the following is a specification.

My invention relates to the class of buttons sometimes known as "tack-buttons," which are used upon various kinds of clothing—for example, trousers, overalls, shoes, gloves, &c.—and are attached thereto by the makers of garments by means of a suitable press or hand-tool and without the use of thread, rings, plates, or anything that does not form part of the completed button when assembled; and my invention has for its object to provide a button of this class which shall be neat and attractive in appearance, easy to put on, practically impossible to remove without tearing the garment, and so inexpensive to produce and apply as to make an appreciable reduction in the cost of garments upon which they are used in lieu of other buttons now upon the market.

With these ends in view I have devised the simple and novel button which I will now describe, referring by reference characters to the accompanying drawings, forming part of this specification, in which—

Figure 1 is an elevation, partly in section, illustrating the parts which comprise the completed button in place in an attaching-press and in the act of being attached to a fabric; Fig. 2, a similar view at the instant the movement has been made by which the button is attached; Fig. 3, a view of an assembled button detached—that is, after the attaching operation has been performed, but with the garment removed; and Fig. 4 is a plan view of an assembled—*i. e.*, a completed—button.

My novel button consists of three parts only—to wit, a metal plate, (denoted by 11,) a tack, (denoted by 12,) and a shot—*i. e.*, a slug—preferably round, of soft metal, (denoted by 13.) The tacks and the shot are well-known articles of manufacture and may be furnished by the pound or in any quantity required. The plate—*i. e.*, the button proper—is so shaped that it may be made complete by a single operation of a punch. In practice the punches are operated in gangs and completed buttons

are produced with great rapidity from strips of sheet metal. The plates are provided with central depressions 14 and preferably with central holes 15, although, if preferred, the holes may be formed by the tacks in the act of assembling.

It is of course well understood that with this class of buttons it is necessary to provide a setting-machine or a hand-punch, by which they are attached in place on garments.

In the drawings I have illustrated the attachment of my novel button to a garment by means of a simple form of press. It should be understood, however, that the special press, machine, or tool by which the buttons are attached is wholly immaterial so far as my present invention is concerned.

A denotes an anvil having a socket 16, which receives the shot; B, a vertically-movable holder having a central opening 17, which receives the anvil, and a recess 18 in its upper side, which just receives the plate; C, a spring acting to retain the holder at the raised position; D, a punch, and E a piece of fabric to which a button is being attached.

The operation of assembling—*i. e.*, attaching a button in place—is substantially as indicated in Figs. 1 and 2. A shot is placed in the socket in the anvil and a plate is placed in the recess in the holder face downward—that is, with the depression upward. The tack is passed through the garment from the back and through the hole in the center of the plate, and a blow of the punch drives the tack into the shot, the end of the tack being curled up within the soft metal of the shot, and the upper portion of the latter being pressed out, so as to fill the bottom of the depression in the button and form a reinforce therefor, the lower half of the shot—*i. e.*, the portion which engages the socket in the anvil—being left intact and forming the center of the completed button, as clearly indicated in Fig. 4. It will thus be seen that the shot in its upset condition—that is, in the assembled condition of the button—performs two highly-important functions. In the first place it serves to cover and conceal the curled-up point of the tack and to lock the latter rigidly to the plate, and in the second place it serves as a reinforce for the center of the button by filling up the

lower portion of the depression therein and rendering the strengthening-plate, which has commonly been used in this class of buttons, wholly unnecessary, and effecting an important saving in the cost of the buttons.

I find in practice that my novel buttons cannot be removed without tearing the garment, that they present a neat and uniformly attractive appearance, as the point of the tack will curl up within the shot, leaving the portion of the shot which lies in the socket in the anvil to form the center of the completed button, and I find, furthermore, that my novel buttons may be furnished and attached at very much less cost than any buttons that have heretofore been placed upon the market.

Having thus described my invention, I claim—

A button comprising a single plate having a depression in its face, a shot in said depression which when upset fills the lower portion of the depression and forms the center of the face of the completed button and a tack passed through the plate and having its point curled within the shot.

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

CLARENCE WOOSTER.

Witnesses:

A. M. WOOSTER,
S. W. ATHERTON.