

(No Model.)

A. WHITNEY & H. HOWARD.
BUTTON OR STUD.

No. 424,153.

Patented Mar. 25, 1890.

Fig. 1

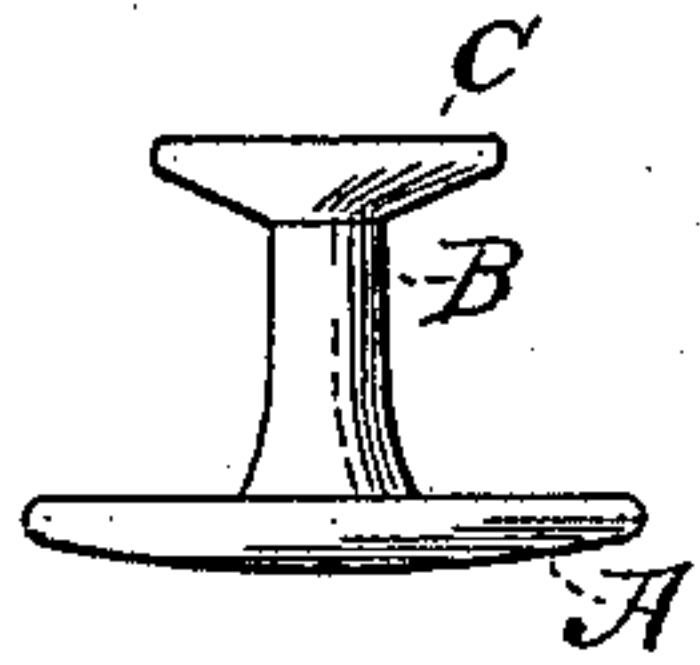


Fig. 2.

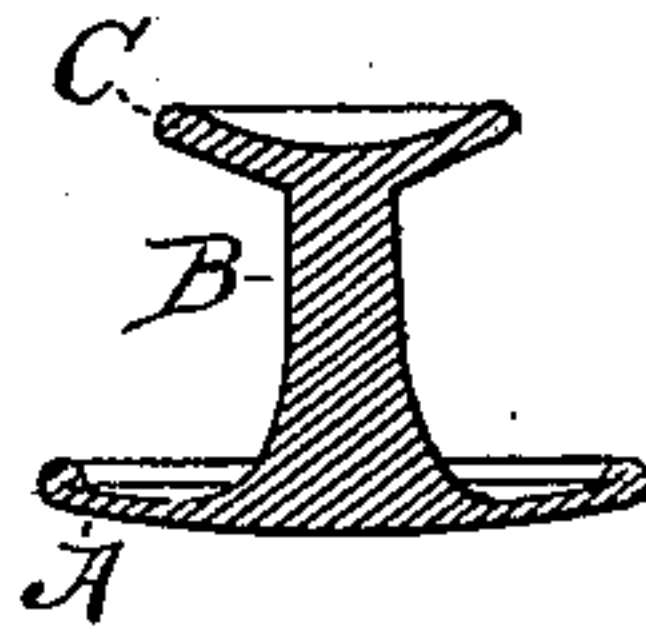


Fig. 3.

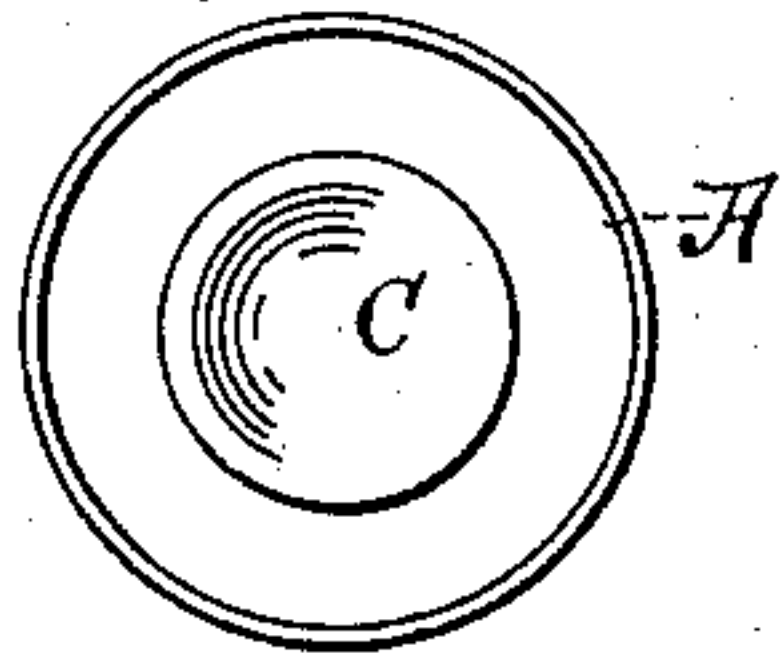


Fig. 4.

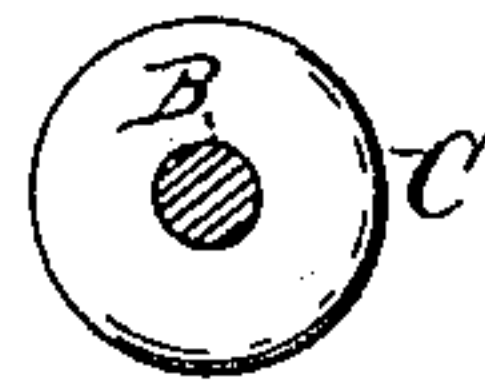
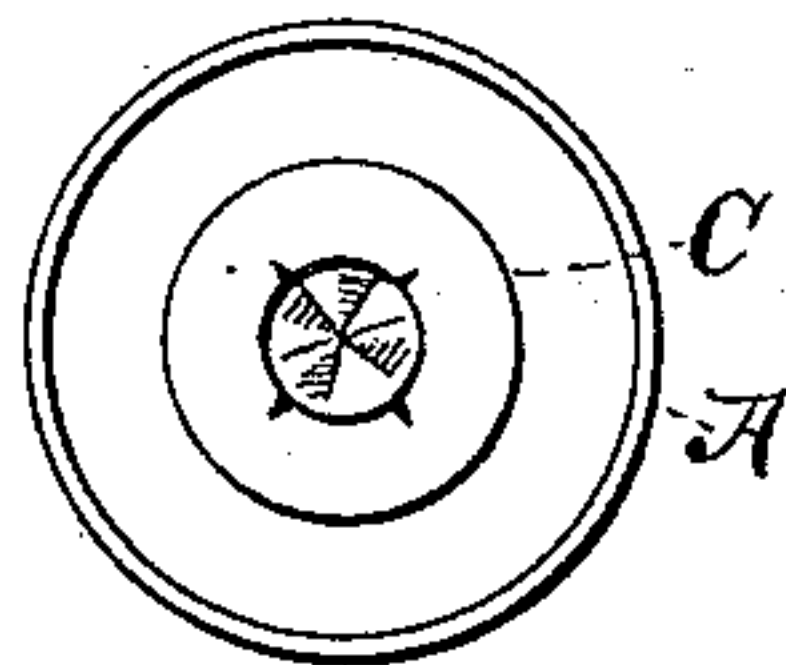


Fig. 5



Witnesses
W. F. Anguish
J. N. Edwards

Inventor
Amos Whitney,
Hiram Howard,
By their Attorneys, *Gifford & Brown*

UNITED STATES PATENT OFFICE.

AMOS WHITNEY, OF HARTFORD, CONNECTICUT, AND HIRAM HOWARD, OF PROVIDENCE, RHODE ISLAND, ASSIGNORS TO HOWARD & SON, OF PROVIDENCE, RHODE ISLAND.

BUTTON OR STUD.

SPECIFICATION forming part of Letters Patent No. 424,153, dated March 25, 1890.

Application filed May 10, 1889. Serial No. 310,293. (No model.)

To all whom it may concern:

Be it known that we, AMOS WHITNEY, of Hartford, in the county of Hartford and State of Connecticut, and HIRAM HOWARD, of Providence, in the county of Providence and State of Rhode Island, have invented a certain new and useful Improvement in Buttons or Studs, of which the following is a specification.

Our improvement relates particularly to that kind of button or stud which has the head rigidly secured to the shank or post.

The object of the improvement is to produce a button which may be inserted in a button-hole and removed therefrom with greater facility than that which is attained by the ordinary construction.

The improvement also involves the construction of the head of a button or stud, so as to conduce to the safety of a stone or stones fitted to the head.

The improvement consists in a button having a head made convex at the rear or back, and having at the front no projection beyond that of the edge portion.

The improvement also consists in a button having a head made convex at the rear or back and concave at the front adjacent to the edge portion.

The improvement also consists in a button having a head made convex at the rear or back and concave at the front, and provided at the concave side with a seat for a stone or stones.

In the accompanying drawings, Figure 1 is a side view of a button or stud embodying our improvement. Fig. 2 is a central longitudinal section of the same. Fig. 3 is a front view. Fig. 4 is a transverse section taken through the shank or post in rear of the head. Fig. 5 is a front view of a button or stud constructed according to our improvement and having a stone set in the head. All these views have been made upon a large scale, so as to illustrate the novel features most clearly.

Similar letters of reference designate corresponding parts in all the figures.

A designates the back-plate of the button or stud. B designates the shank or post, and

C designates the head. This button or stud may be made of any desirable material or materials, and the parts may be united in any manner. These details are immaterial so far as our improvement is concerned, as the improvement resides in the form or shape of the head.

It will be seen that no portion of the head projects farther forward than the edge portion, and that the back of the head is convex or has a gradual slope or curve from the periphery toward the shank. This is a very advantageous construction in that it makes the edge portion of the head wedge-shaped, thereby facilitating its entrance into a button-hole. The head is shown as of concavo-convex form, the concave side being at the front and having its deepest portion in the axial line of the post. This concave or cup-shaped front is advantageous in that it enables the head of the button to be easily held from the front in the act of inserting it into a button-hole. It also affords a place into which the edge portion of a button-hole may be depressed during the passage of the head of a button through the button-hole.

Another and by no means unimportant advantage resulting from making the front of the head with a salient edge or concave arises from the safety which it affords stones inserted in the head. The concave construction causes the edge portion of the front of the head to project so far forwardly as to prevent most things from coming into contact with stones set in the head.

What we claim as our invention, and desire to secure by Letters Patent, is—

1. A collar-button provided with the customary shank or post and back-plate and a face plate or disk formed concave or cup-shaped, the deepest portion of the concavity being in the axial line of the post and extending to the periphery of the disk or plate, said periphery or edge being made thinner than the body of the plate, substantially as specified.

2. A collar-button provided with the customary shank or post and back-plate and a face plate or disk formed concave or cup-

shaped, the deepest portion of the concavity being in the axial line of the post and extending to the periphery of the disk, the said face plate or disk having a convex backsloped
5 or curved from its periphery to the post, the said periphery being thinner than the body of the plate, substantially as specified.

3. A collar-button provided with the customary shank or post and back-plate and a
10 face plate or disk formed with its edge projecting as far forward as any portion and its

back sloped or curved from the edge rearward toward the shank or post, substantially as specified.

AMOS WHITNEY.
HIRAM HOWARD.

Witnesses as to Amos Whitney:

GEO. A. REYNOLDS,

E. I. ROGERS.

Witnesses as to Hiram Howard:

W. EDWARD FISKE,

E. F. HEDLY.