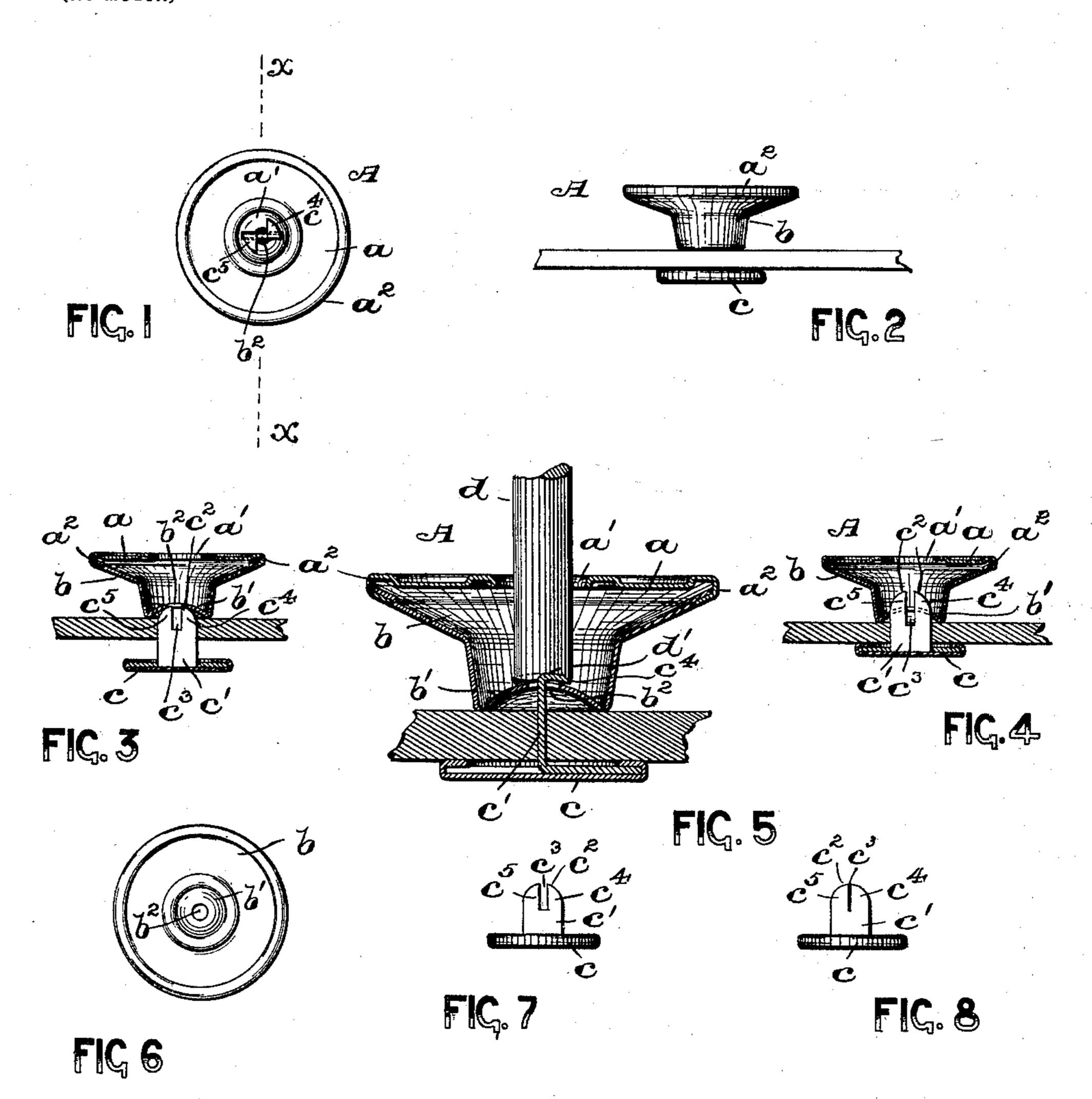
C. RADCLIFFE BUTTON.

(Application filed Feb. 5, 1897.)

(No Model.)



WITNESSES:

INVENTOR:

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UNITED STATES PATENT OFFICE.

CHARLES RADCLIFFE, OF NEWARK, NEW JERSEY.

BUTTON.

SPECIFICATION forming part of Letters Patent No. 610,662, dated September 13, 1898.

Application filed February 5, 1897. Serial No. 622,129. (No model.)

To all whom it may concern:

Be it known that I, CHARLES RADCLIFFE, a citizen of the United States, residing at Newark, in the county of Essex and State of New 5 Jersey, have invented certain new and useful Improvements in Buttons; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which 10 it appertains to make and use the same, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

This invention has reference to an improved 15 construction of button illustrating a novel method of securing the several parts of a button to the material, employing in connection with the shoe or back-plate of the button a suitable post, which is pointed and is adapted 20 to be forced through the solid or slightlymeans of a suitable press or machine, thereby cutting a proper slot or rectangular opening in said hub and the upper portions of the 25 post during the same operation, and by means of the proper tool being bent or forced in opposite directions over the edges surrounding the slot in the hub to cause the completed button to be firmly held upon the material and 30 the hub and shoe of the button to be firmly secured together and to lie closely against the material.

The object of this invention, which is in the nature of an improvement on the construc-35 tion of button illustrated and claimed in my previous Letters Patent, No. 520,897, granted June 5, 1894, is to simplify the construction and to cheapen the cost of manufacture with a view of producing a better button.

Another object of this invention is to dispense with the use of a hub having a previously-formed slot or rectangular opening, thereby doing away with the employment of an extra die and also with a post having the previously-formed and oppositely-projecting holding-arms thereon, whereby the use of another die is avoided.

The invention therefore consists in the improved construction of button herein de-50 scribed and in such novel arrangements and combinations of parts, as set forth more in detail in the accompanying specification, and finally embodied in the clauses of the claim.

The invention is illustrated in the accompanying sheet of drawings, in which—

Figure 1 is a top view of my improved form of button, and Fig. 2 is a side view of the same when the parts of the button have been secured to the material. Fig. 3 is a vertical section of the several parts of the button, the 60 pointed post on the shoe being represented in position about to puncture the shell or hub of the button. Fig. 4 is a like view with the said pointed post forced entirely through the shell or hub, and Fig. 5 is a vertical cross- 65 section on line x in Fig. 1 and illustrating the tool in position after it has bent or forced the upper portions of the pointed post in opposite directions across the slot in the hub. Fig. 6 is a view of the back of the hub of the 70 button provided with a small central hole, punctured hub of the shell of the button by | and Figs. 7 and 8 are side views of two forms of post on the shoe adapted to be used in connection with the shell of the button.

> Similar letters of reference are employed in 75 all of the above - described views to indicate

corresponding parts.

In said drawings, A indicates the button, which is composed of a suitable face-plate or upper shell a, provided with a central perfo- 80 ration or hole a', and which is secured to the hub b in the usual manner by means of the overlapping edge a^2 . The hub b is usually provided with a centrally-arranged hole or perforation b^2 in the curved portion b', as 85 clearly illustrated, so that it may be readily punctured by the pointed portion of the flat post on the shoe c of the button, as will be fully set forth. Integral with said shoe or back-plate c or separate therefrom, if desired, 90 is formed or struck up thereon a flat post c', provided with the pointed portion c^2 , in which there is a slit c^3 of any desirable width, as will be clearly evident from Figs. 7 and 8, to form the separable parts c^4 and c^5 , which 95 are slightly curved on their edges, as illustrated. In order to secure the hereinabovedescribed parts of the button to the fabric, said pointed post is forced through the curved part b' of the hub to form its own slot in said 100 hub, as illustrated more particularly in Fig. 4. At the same time a tool d, having the oppo-

sitely-arranged curved surface d' in the lower end, as clearly illustrated in Fig. 5, enters the hole a' in the upper shell a, and said curved surface d' of the said tool d thus coming in 5 contact with the separable parts c^4 and c^5 of the pointed portion of the post c' will bend or force said parts c^4 and c^5 in opposite directions directly across the slot formed in the hub b by the previous insertion of the said ro post c', as will be clearly seen from an inspection of Figs. 1 and 5, and the parts of the button are readily secured together in their

proper position upon the cloth.

It will be seen that by the several means 15 hereinabove set forth and the novel method of securing the post to the hub of the button a novel construction of button is the result. The parts of the button can be readily attached to the cloth of different thicknesses. 20 Without that the parts of the button are loosely secured thereon, which is a very ob-

jectionable feature, as this produces rattling of the parts and sometimes causes the shoe or back-plate to be pulled entirely through 25 the material, especially when the button is attached to a very thin piece of cloth.

Having thus described my invention, what

I claim is—

1. As a new article of manufacture, a but-30 ton, comprising, a face-plate or upper shell, and a hub secured thereto, a shoe or backplate c, and a flat and pointed post c' thereon, adapted to puncture said hub and be forced therethrough to form a rectangular slot in 35 said hub, to prevent the lateral movement of said hub upon said post c', said flat post having a vertically-arranged slot, and the separable flat parts c^4 and c^5 contiguous to said

slot, said parts c^4 and c^5 being bent or forced, in opposite directions at right angles to the 40 flat sides of the said post, directly across the slot formed in said hub, and tightly closed down so that the flat sides of said parts c^4 and c^5 shall lie directly against and upon the inner curved surface of the portion b' of said 45 hub, substantially as and for the purposes set forth.

2. As a new article of manufacture, a button, comprising, a face-plate or upper shell and a hub secured thereto, said hub having 50 a curved portion b' provided with a centrallyarranged small hole or perforation b^2 , a shoe or back-plate c, and a flat and pointed post c'thereon adapted to be forced through said hole b^2 in the hub, to form a rectangular slot 55 in said hub, and to prevent the lateral movement of said hub upon said post c', said flat post having a vertically-arranged slot, and the separable flat parts c^4 and c^5 contiguous to said slot, said parts c^4 and c^5 being bent or 60 forced, in opposite directions at right angles to the flat sides of the said post, directly across the slot formed in said hub, and tightly closed down so that the flat sides of said parts c^4 and c^5 shall lie directly against and upon 65 the inner curved surface of the portion b' of said hub, substantially as and for the purposes set forth.

In testimony that I claim the invention set forth above I have hereunto set my hand this 70

3d day of February, 1897.

CHARLES RADCLIFFE.

Witnesses:

FREDK. C. FRAENTZEL, WM. H. CAMFIELD, Jr.