

(No Model.)

F. A. SMITH, Jr.
BUTTON AND FASTENER.

No. 324,890.

Patented Aug. 25, 1885.

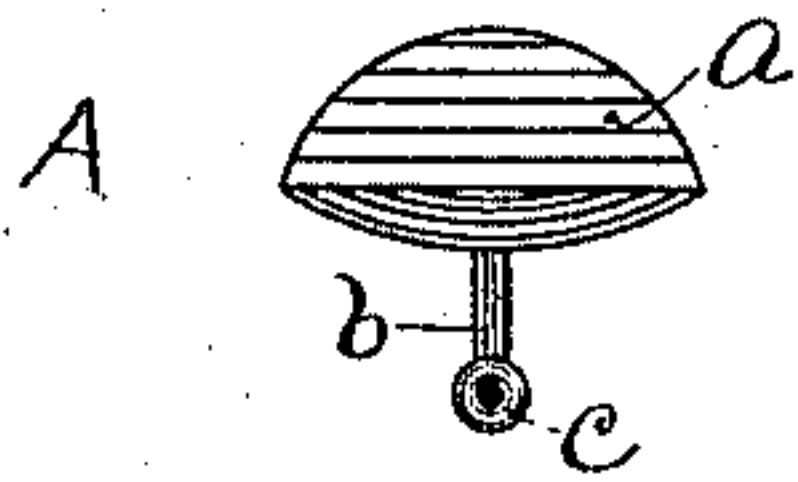


Fig. 1.

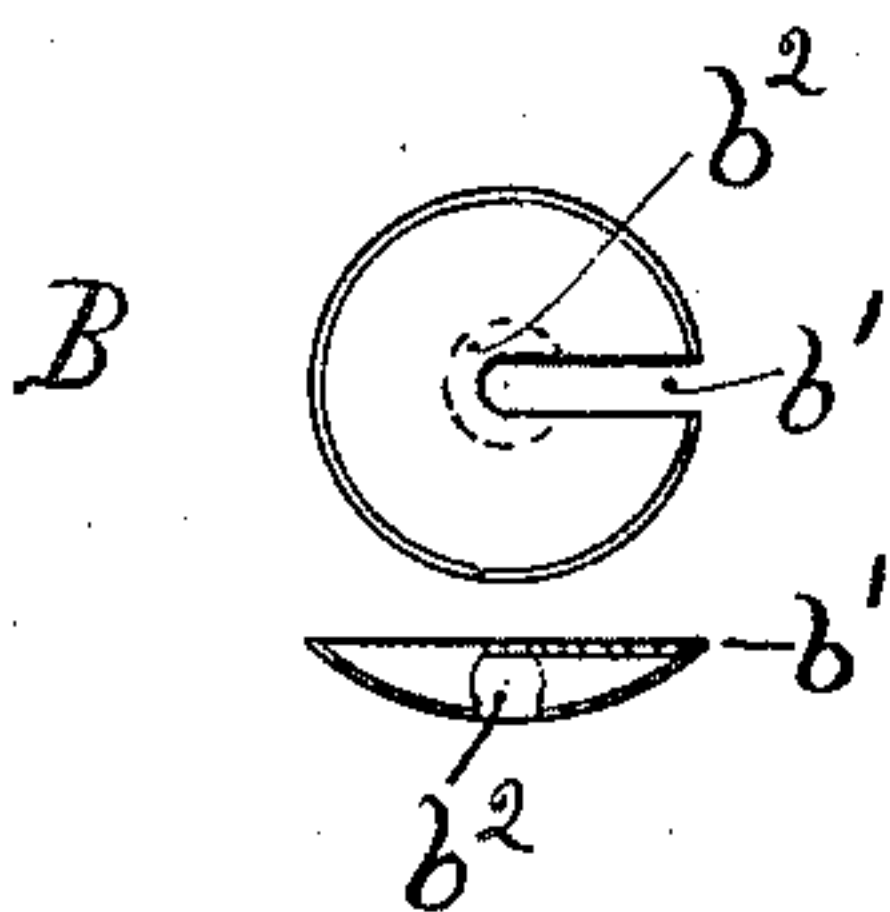


Fig. 2.

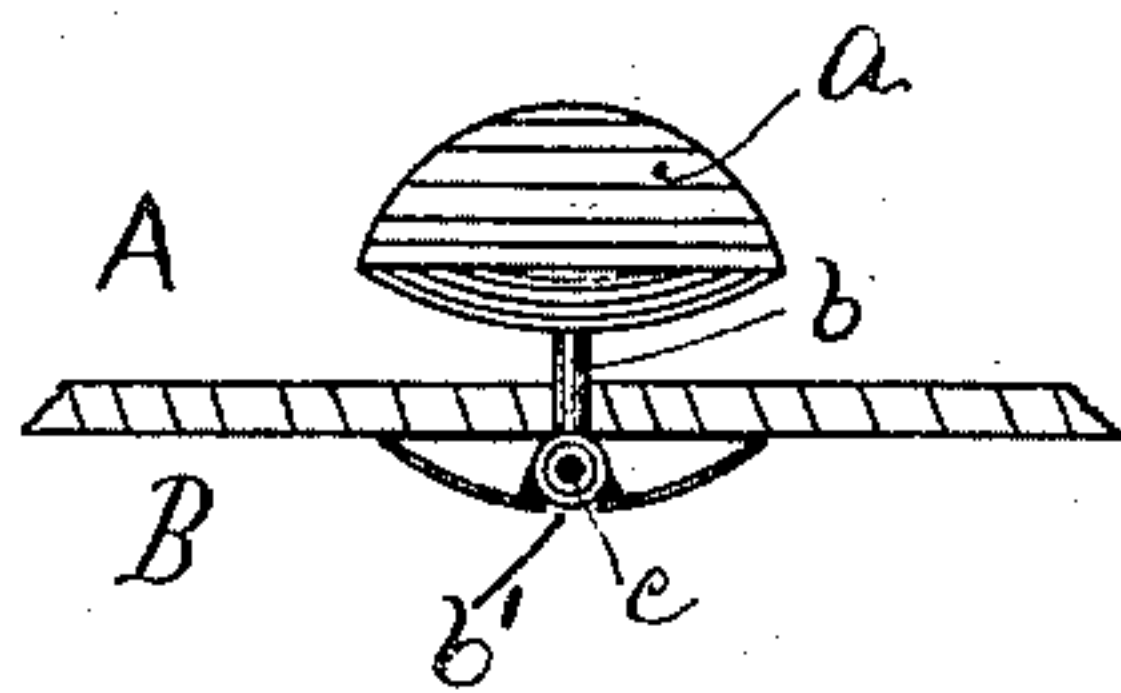


Fig. 3.

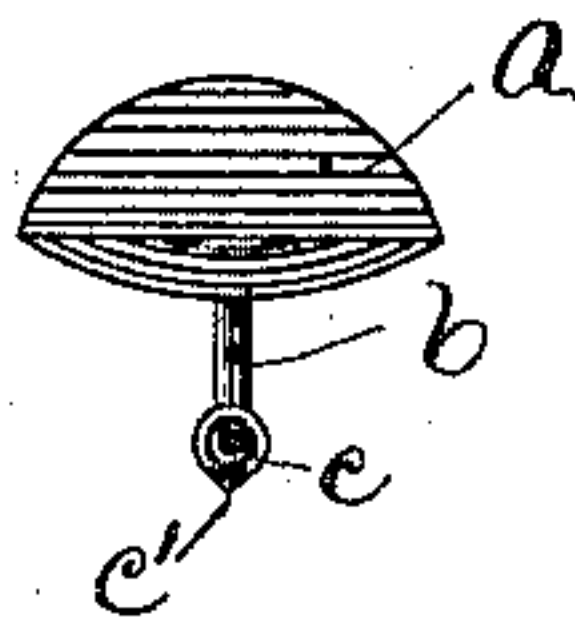


Fig. 4.

Witnesses.
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FRANKLIN A. SMITH, JR., OF PROVIDENCE, RHODE ISLAND.

BUTTON AND FASTENER.

SPECIFICATION forming part of Letters Patent No. 324,890, dated August 25, 1885.

Application filed August 25, 1884. (No model.)

To all whom it may concern:

Be it known that I, FRANKLIN A. SMITH, Jr., a citizen of the United States, residing at Providence, in the county of Providence and State of Rhode Island, have invented certain new and useful Improvements in Buttons and Fastenings; 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 it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

My present invention relates to a new and useful improvement in buttons, and of that class which are attached to fabric without the aid of a setting-instrument.

To this end my invention consists, essentially, of a button-head provided with a stem having a knob at its end, combined with a concavo convex spring-washer provided with a central seat or socket, and a slot leading from said socket to the periphery of the washer, as hereinafter fully described.

In the accompanying drawings, Figure 1 is a side elevation of my improved button. Fig. 2 represents the washer used in connection with my improved button. Fig. 3 represents my improved button as attached to fabric. Fig. 4 represents a modified form of button.

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

Referring to the drawings, A represents my improved button, which consists of the head *a*, composed of leather, pulp, or other suitable substance, provided on its lower surface with a pin or stud, *b*, the upper portion of which is secured to the said head, the lower portion terminating in the enlarged end *c*, as shown in Fig. 1. The enlargement is preferably formed of a ball shape, which allows a greater freedom of movement when attached to fabric.

B is the metallic disk or washer of a concavo-convex form. The central portion of the washer is provided with an indentation, *b*², formed from the outer or convex side, corre-

sponding in form and size to the end *c* of the button-pin. The washer is further provided with a slot or aperture, *b'*, extending from the indentation *b*² to the outer edge of the washer, of sufficient width to allow the pin *b* to pass through it, as fully shown in Fig. 2.

In the operation of attaching my improved button, the end *c* of the button-pin *b* is thrust through the fabric from the outer surface, after which the slot *b'* of the washer B is passed over and above the enlarged end *c* until the indentation *b*² is reached, when the end *c* is sprung into said indentation, securely locking the button and washer together on the fabric, as fully shown in Fig. 3.

To facilitate the passage of the button pin *b* through the fabric, I may, if deemed preferable, sharpen the lower portion of the enlarged end *c*, making it self-penetrating, as shown in Fig. 4.

I have shown the enlarged end of the button-pin of a ball shape. Any desired form may be used which would be a substantial equivalent to the one herein shown.

I am thus enabled to provide a cheap and inexpensive button and fastening device, easily applied, and which admits being used a number of times, none of the parts being destroyed in detaching.

The washer herein shown and described is the same as claimed by myself in Patent No. 272,913, of February 27, 1883. I therefore make no claim herein to the washer otherwise than in combination.

Having described my invention, I claim—

The button-head *a*, provided with the stem *b*, having the knob *c* at its end, combined with the concavo-convex spring-washer provided with the central seat or socket, *b*², and the slot *b'*, leading from said socket to the periphery of the washer, all substantially as shown and described.

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

FRANKLIN A. SMITH, JR.

Witnesses:

CHARLES GREENE,
E. FISHER.