

(No Model.)

E. WUERFEL.
BUTTON.

No. 292,729.

Patented Jan. 29, 1884.

Fig. 1.

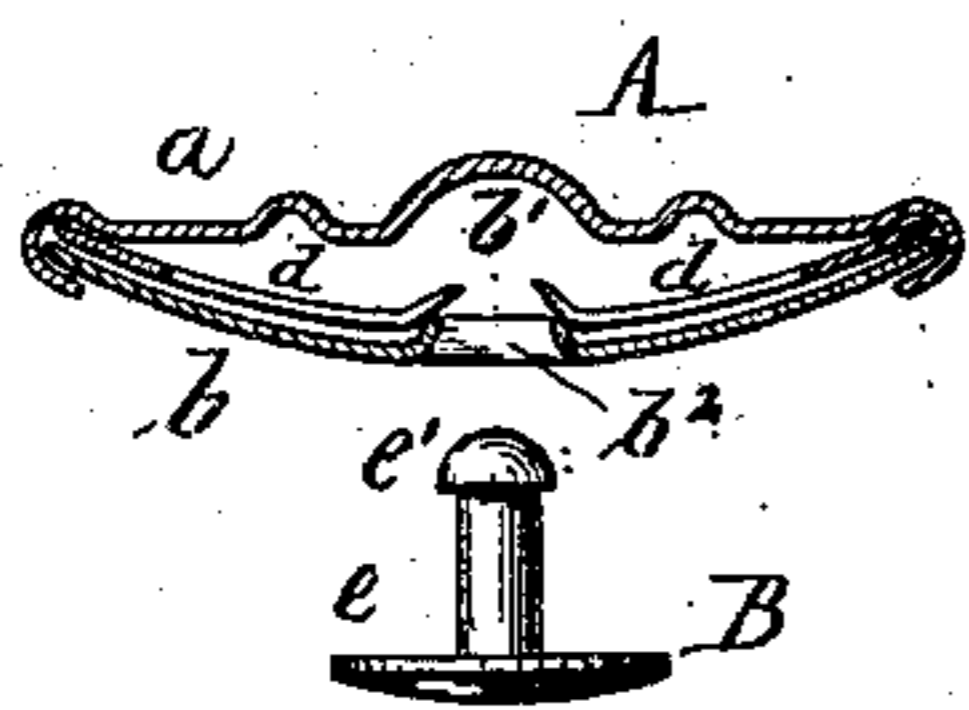


Fig. 2.

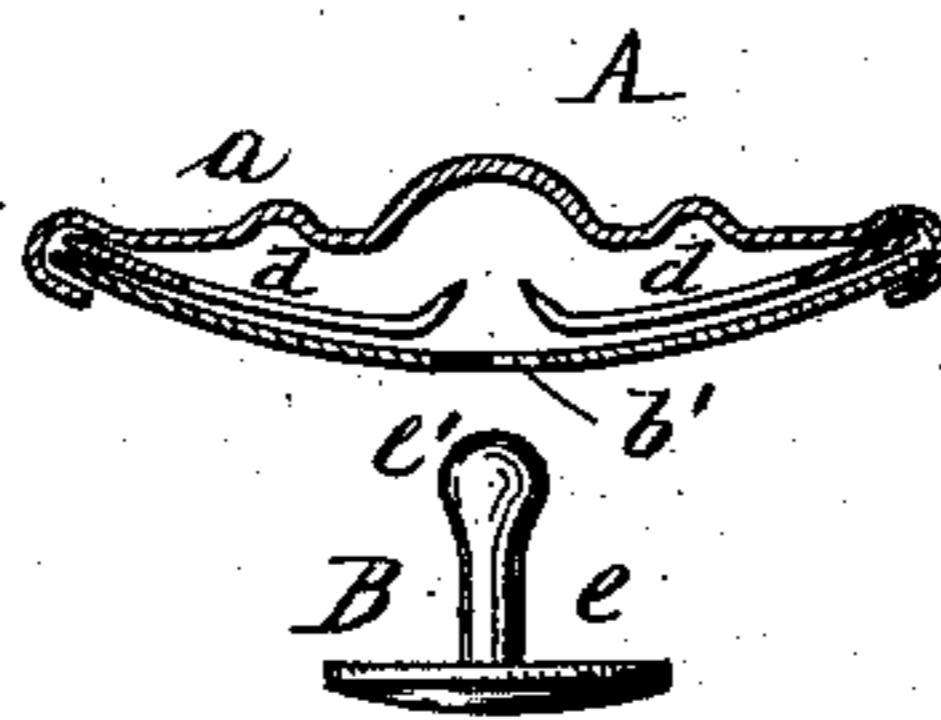


Fig. 3.

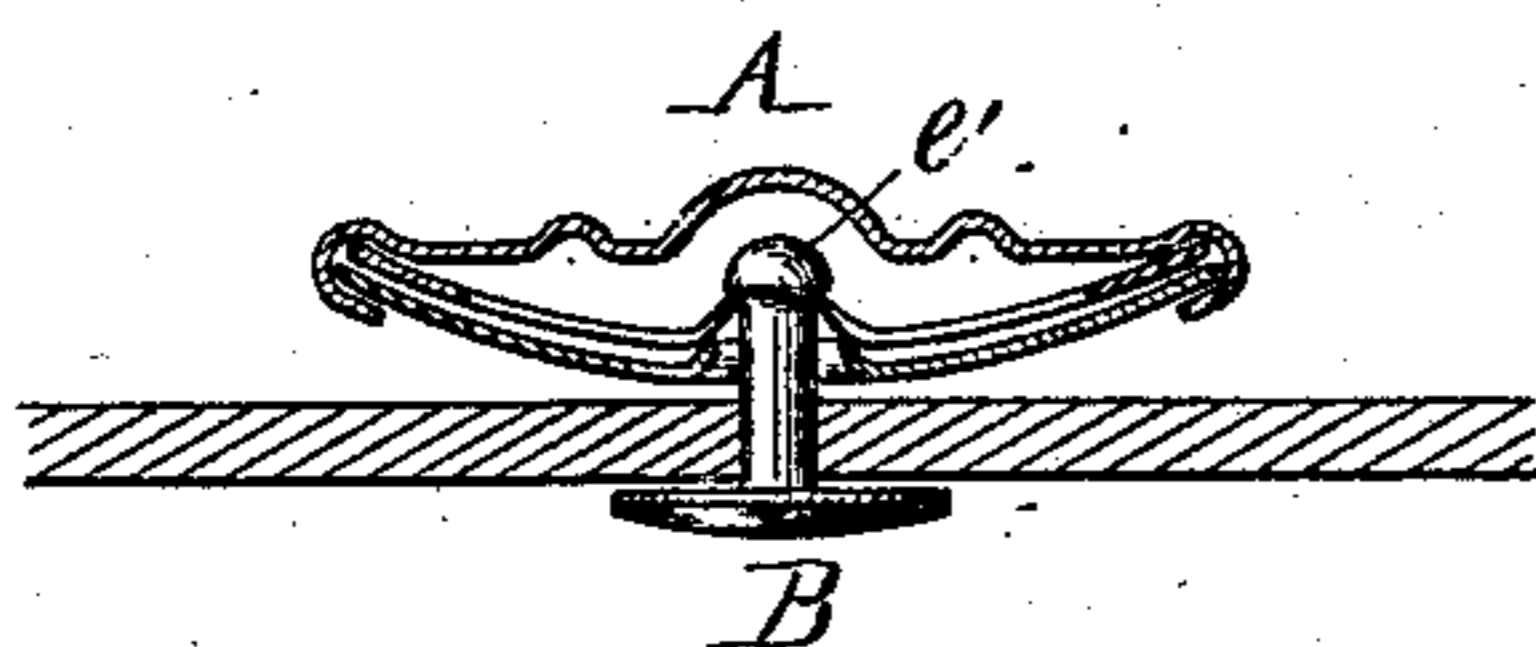


Fig. 4.

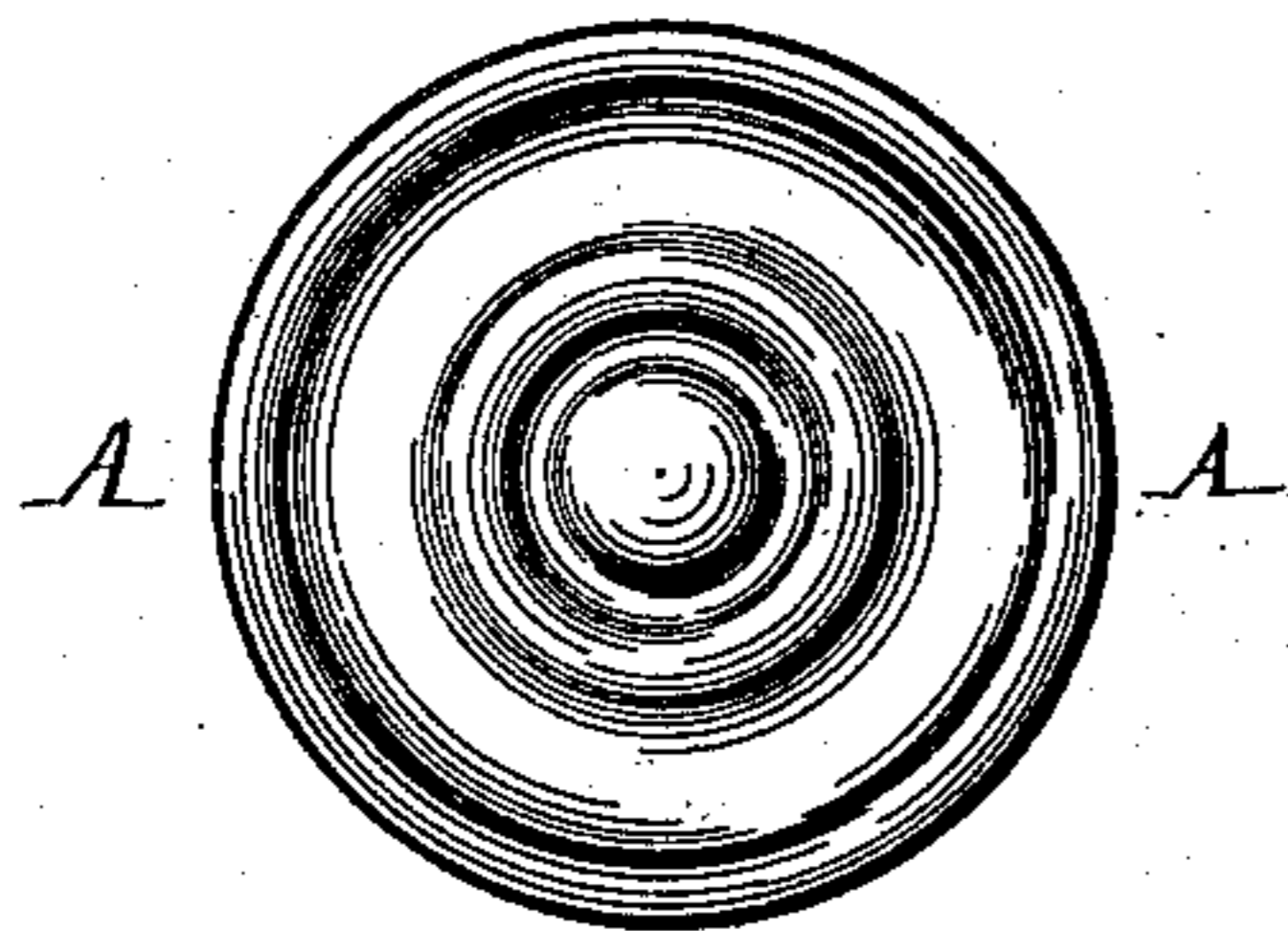
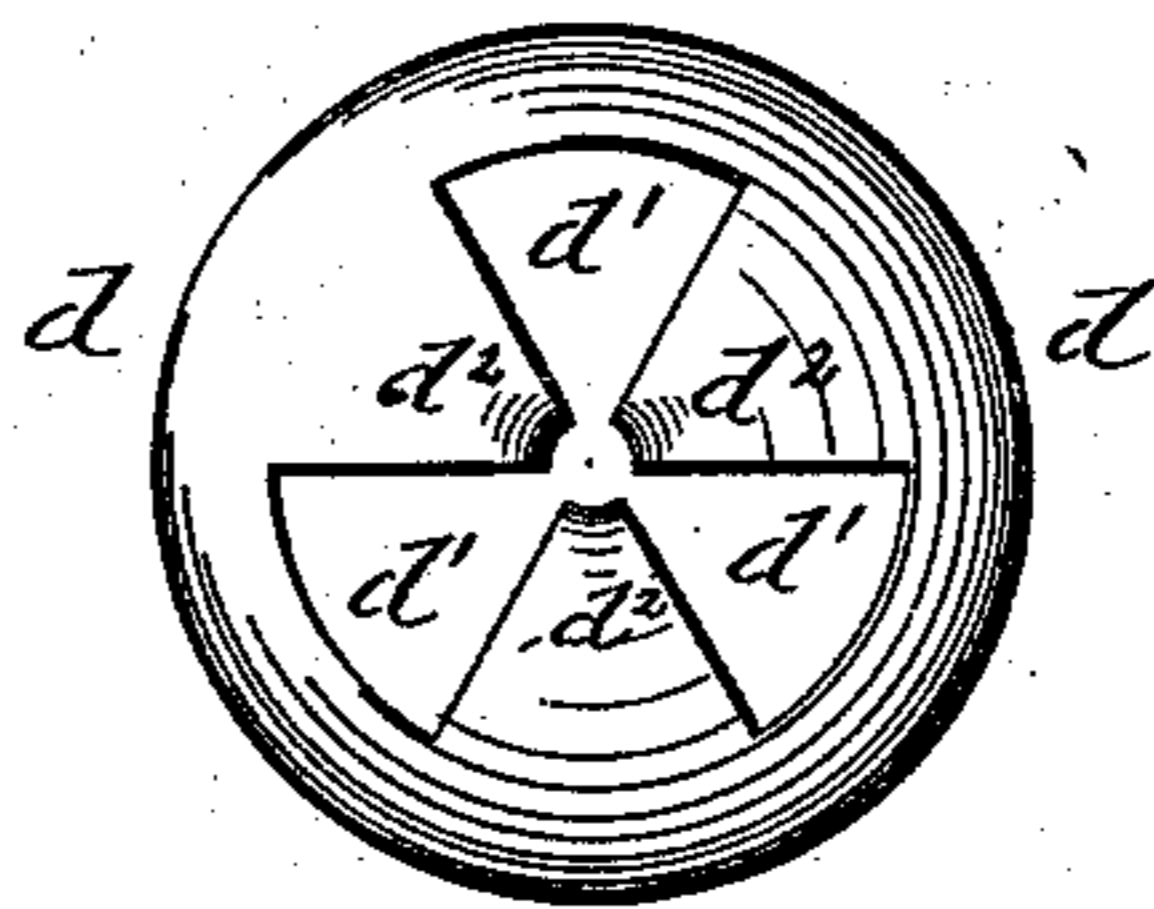


Fig. 5.



WITNESSES:

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ERNEST WUERFEL, OF BROOKLYN, NEW YORK.

BUTTON.

SPECIFICATION forming part of Letters Patent No. 292,729, dated January 29, 1884.

Application filed May 7, 1883. (No model.)

To all whom it may concern:

Be it known that I, ERNEST WUERFEL, of Brooklyn, in the county of Kings and State of New York, have invented certain new and useful Improvements in Buttons, of which the following is a specification.

This invention has reference to a button that can be attached quickly without needle and thread, and without requiring special appliances for connecting the head and shank of the button; and the invention consists of a button, the head of which is made of a cap or face-plate, a bottom plate having a central opening, and an intermediate recessed spring-plate, the bent inner edges or teeth of which engage the enlarged head of the shank of the shoe or base-plate.

In the accompanying drawings, Figures 1 and 2 represent vertical central sections of the heads and shanks of my improved button, shown detached from each other. Fig. 3 is a vertical central section of the same, showing the head connected to the shank; and Figs. 4 and 5 show, respectively, a top view of the head of the button and a detail bottom view of the intermediate recessed spring-plate of the head.

Similar letters of reference indicate corresponding parts.

A represents the head of my improved button, which head is composed of three parts—a cap or face plate, *a*, a bottom plate, *b*, having a central opening, *b'*, and an intermediate spring-plate, *d*, which is provided with radial slits or recesses *d'*, that form spring-teeth, the inner edges, *d''*, of which are bent up, as shown in Figs. 1, 2, and 3. The bottom plate, *b*, of the head A is provided with an annular inwardly-projecting rim, *b''*, around the central bottom opening, *b'*, which rim serves as an abutment for the spring-teeth of the intermediate plate, *d*.—The shoe or base-plate B of the button has a shank, *e*, the en-

larged head *e'* of which has a somewhat smaller diameter than the diameter of the aperture *b'* of the bottom plate, *b*, so that the head *e'* of the shank can be readily introduced through the bottom opening, *b'*, to the interior of the head of the button when the button is to be attached to the cloth or other fabric. The shank *e* of the shoe B is, for this purpose, first passed through a hole pierced through the fabric, and then the head A pressed down on the enlarged head of the shank, which is thereby passed through the opening *b'* of the bottom plate, *b*, and forced up through the inner edges of the spring-teeth of the intermediate plate, which thereby rigidly "bite" the shank and prevent its being disconnected from the head A. When the head is once applied to the shank of the shoe B, it cannot be detached therefrom, except by forcibly disconnecting the parts of the button. The head of the button is quickly attached to the shank without requiring special appliances, so that the button is adapted for use in the wholesale manufacture of clothes as well as for domestic purposes.

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

As an improvement in buttons, the combination, with a shoe or base-plate having a shank with an enlarged head, of a button-head composed of a cap or face-plate, a bottom plate having a central aperture and an inwardly-bent rim around said aperture, and an intermediate recessed or slitted spring-plate having radial spring-teeth with upwardly-bent inner ends, substantially as set forth.

In testimony that I claim the foregoing as my invention I have signed my name in presence of two subscribing witnesses.

ERNEST WUERFEL.

Witnesses:

CARL KARP,
SIDNEY MANN.