

(No Model.)

R. H. LEWIS.
SEPARABLE BUTTON.

No. 447,249.

Patented Feb. 24, 1891.

Fig. 1.

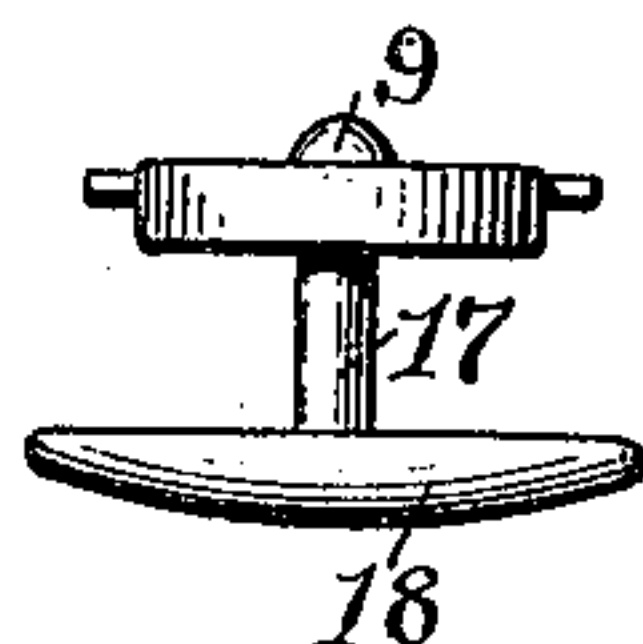


Fig. 2.

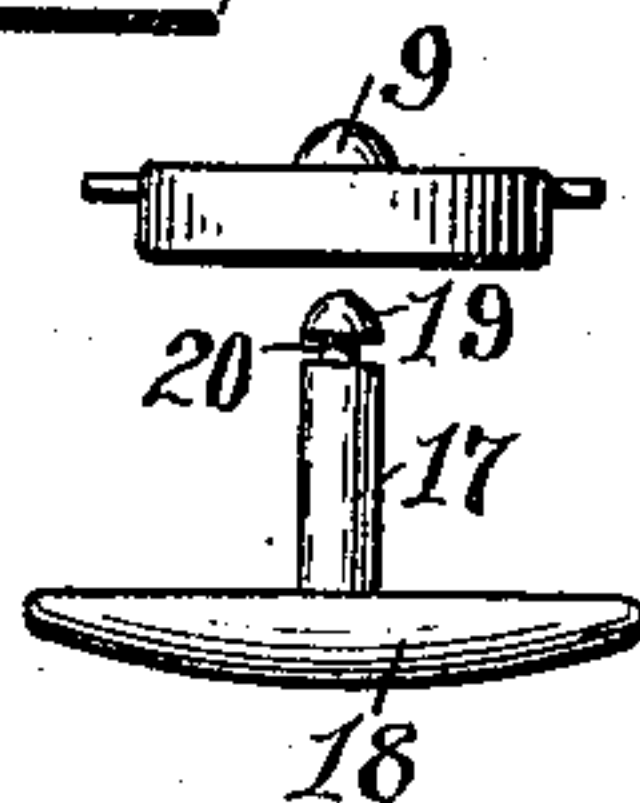
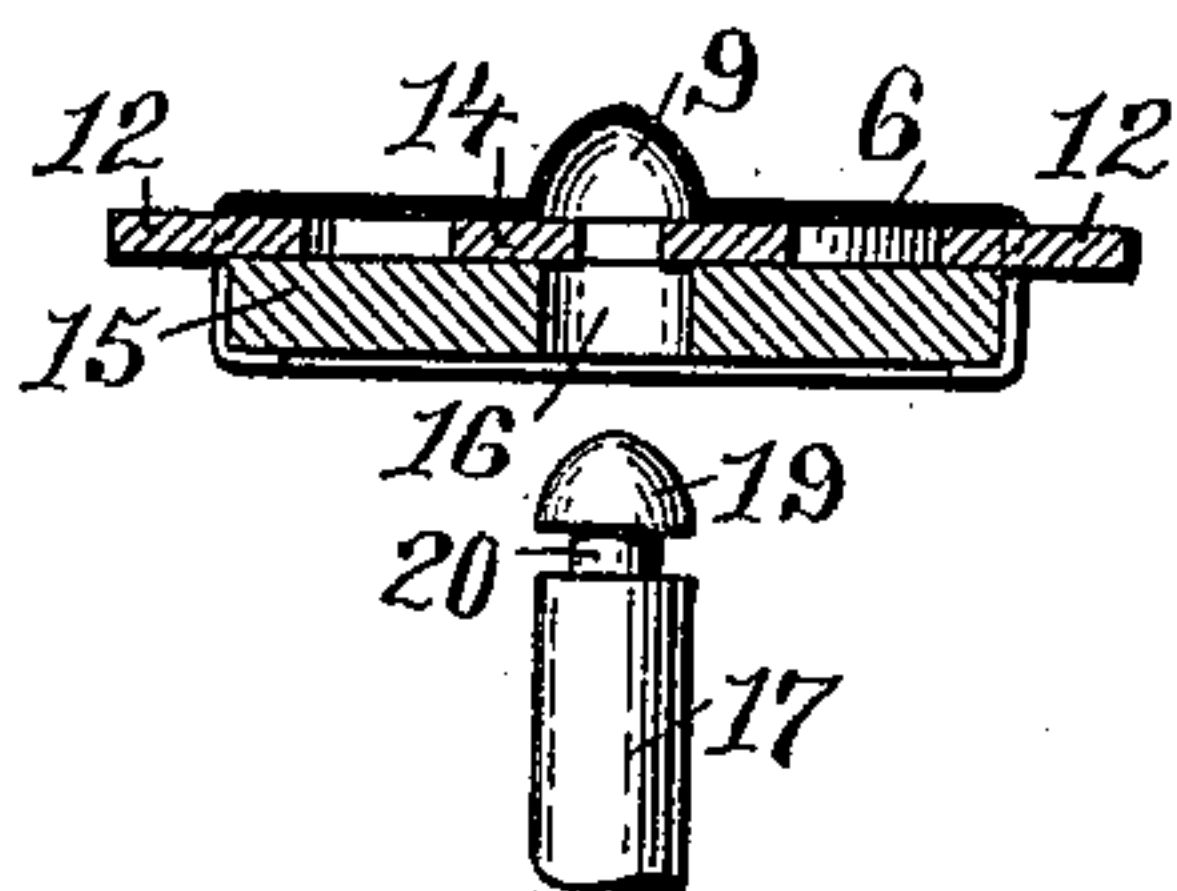


Fig. 3.



Isf. 4.

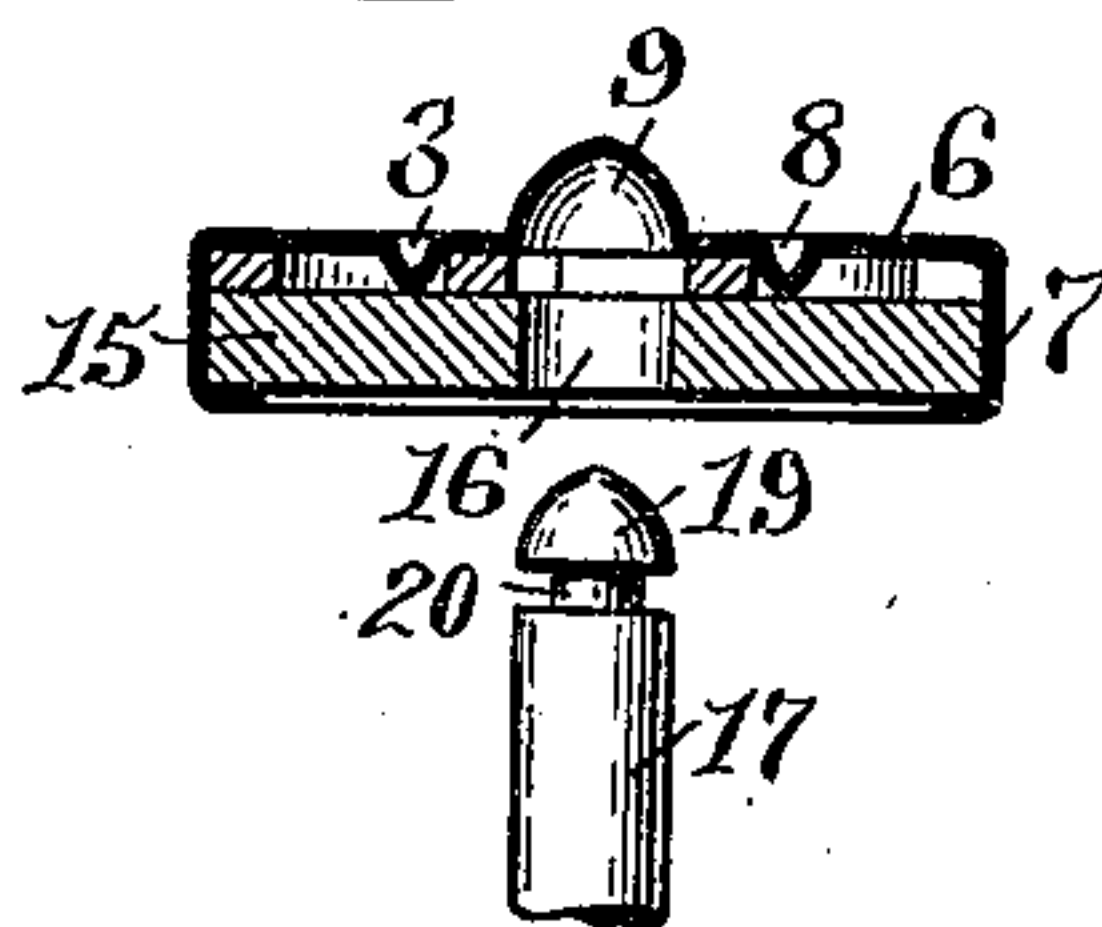
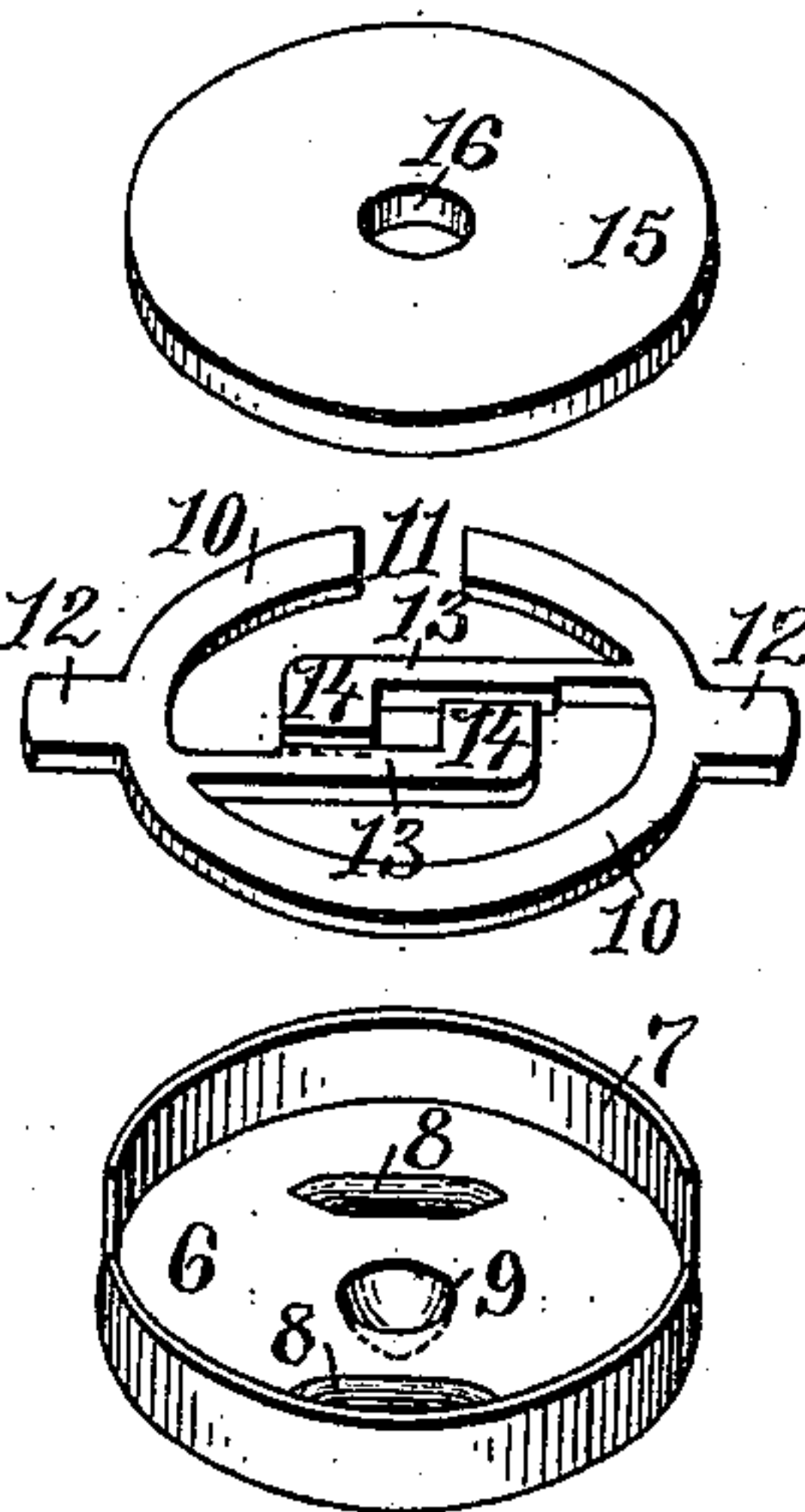


Fig. 5.



WITNESSES:

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UNITED STATES PATENT OFFICE.

RUSSELL H. LEWIS, OF PROVIDENCE, RHODE ISLAND, ASSIGNOR TO ALBERT EDDY, OF SAME PLACE.

SEPARABLE BUTTON.

SPECIFICATION forming part of Letters Patent No. 447,249, dated February 24, 1891.

Application filed November 5, 1890. Serial No. 370,374. (No model.)

To all whom it may concern:

Be it known that I, RUSSELL H. LEWIS, of the city of Providence, in the county of Providence and State of Rhode Island, have invented certain new and useful Improvements in Separable Buttons; and I hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming part of this specification.

This invention relates to an improvement in separable buttons, the object being to provide a button wherein the back may be detachably secured to the front and form a firm and rigid connection, which will sustain practically the same strain and usage as an ordinary solid or non-separable button, and in which the connecting parts are made to embody simplicity of construction and adapted to be produced at a small cost.

To these ends my invention consists in a button embracing certain novel features of construction and combination of parts, as will be described hereinafter, and pointed out in the claims.

Figure 1 is a perspective view of the improved button. Fig. 2 is a perspective view of the same, showing the back separated from the front. Fig. 3 is an enlarged longitudinal section of the base or back of the button. Fig. 4 is an enlarged transverse section of the same. Fig. 5 represents the several parts of which the base of the button is composed shown on an enlarged scale.

In the drawings, 6 designates the base-plate of the button, provided with the raised rim 7, projections 8, and recess 9 stamped directly from the metal of the base-plate. The spring-plate 10 is formed from a piece of sheet metal of suitable thickness, and is provided with the slot 11, push-rods 12, and arms 13, having on their ends the lugs 14. The cover 15 is made to fit snugly within the rim 7, and has a central hole 16 to receive the post or spindle 17, which is firmly attached to the front plate 18, and is furnished with a tapering point 19 and the circumferential groove 20.

In assembling the parts composing the base of the button the spring-plate 10 is placed in-

side the rim 7 of the base-plate 6, the pusher-rods 12 being allowed to protrude from suitable openings cut in the rim 7. The cover 15 is then placed over the spring-plate and the edges of the raised rim 7 are bent over the cover, holding the parts forming the base securely together in the positions shown in section in Figs. 3 and 4.

In joining the front to the back of the button the operation is as follows: The tapering end of the spindle 17 is pushed through the hole 16 in the cover 15, and encountering the lugs 14 presses them apart in a longitudinal direction, (the projections 8 on the base-plate forming guides and preventing any lateral movement of the arms 13,) contracting the spring-plate and allowing the end of the spindle to enter the recess 9 of the base-plate. The circumferential groove 20 being thus brought opposite the lugs 14, the spring-plate is released from the pressure exerted by the end of the spindle, and, expanding, acts to draw the lugs back to their original positions, engaging them with the circumferential groove 20 in the spindle 17, and forming a substantial and rigid connection between the base and the spindle of the button.

In order to separate the front from the back of the button, the push-rods 12 are pushed inward, contracting the spring-plate 10 and separating the lugs 14, thus releasing the circumferential groove 20 from the grasp of the lugs and allowing the spindle to be withdrawn.

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

1. In a separable button, a spring locking device formed from one piece of metal, and having the slot 11, push-rods 12, and arms 13, provided with the lugs 14, as described.

2. In a separable button, the combination, with the base-plate 6, having the projections 8 and recess 9 stamped therefrom and furnished with the rim 7, of the spring-plate 10, having the slot 11, push-bars 12, and arms 13, supplied with the lugs 14, and the cover 15, over which a portion of the rim 7 is turned to secure the parts together and form a base, as described.

3. In a separable button, the combination, with the post or spindle 17, rigidly secured to the front piece 18 and having a tapering end 19 and a circumferential groove 20, of a base
5 composed of the base-plate 6, having the raised rim 7, projections 8, and recess 9, together with the spring-plate 10, having the

slot 11, push-rods 12, and arms 13, supplied with the lugs 14, and a covering-plate 15, having the central hole 16, as described.

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Witnesses:

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