# P. W. Gengembre.

## Button.

No. 45401. Patented. Dec. 13. 1864.

Fig. 1.

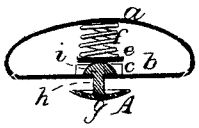


Fig. 4.

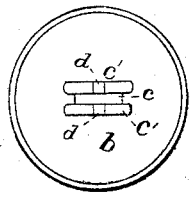


Fig. 2.

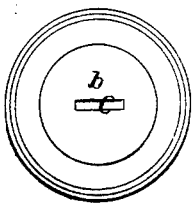


Fig. 5.

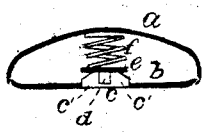


Fig. 3.


Fig. 6.


Witnesses.

H. R. Dale Jr

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# UNITED STATES PATENT OFFICE.

PHILIP W. GENGEMBRE, OF BOSTON, MASSACHUSETTS.

## IMPROVEMENT IN BUTTONS.

Specification forming part of Letters Patent No. **45,401**, dated December 13, 1864.

*To all whom it may concern:*

Be it known that I, PHILIP W. GENGEMBRE, of Boston, in the county of Suffolk and State of Massachusetts, have invented a new and useful Improvement in Buttons and their Fastenings; and I do hereby declare the same to be fully described in the following specification and represented in the accompanying drawings, of which—

Figure 1 denotes a transverse section of a button and fastening made in accordance with my invention. Fig. 2 is a rear view of the button or body part thereof. Fig. 3 is an elevation of the stem and its catch. Fig. 4 is an inner side view of the back-plate of the button. Fig. 5 is another transverse section of the button and fastening taken in a plane at right angles to the plane of section of Fig. 1. Fig. 6 is a top view of the fastening catch of the button.

In carrying out my present invention or improvement I make use of a chambered button—that is, one whose body is hollow, and is provided with a back-plate, the button-body under such circumstances being generally composed of two disks, *a b*, arranged together, as shown in the drawings, the larger of them being cancavo-convex. The back-plate or disk *b* has an oblong opening, *c*, made through it centrally. The said opening also goes through two jaws, *c' c'*, which project from the inner surface of the back-plate *b*, and are arranged with an interval, *d*, between them, such interval being disposed at right angles to or so as to cross the opening *c*. Over the jaws, and within the button-body, there is a bearing-plate, *e*, between which and the disk *a* is a spiral spring, *f*, or its equivalent, for forcing the plate toward the jaws.

The fastening-catch A of the button is to be made as shown in Figs. 1, 3, and 6, it having a head, *g*, a shank, *h*, and a foot, *i*, formed and arranged as shown in such figures.

In connecting the said button to a garment or piece of cloth the catch A is first to be pressed through the cloth or garment in such manner as to leave the head *g* drawn close up to the rear side of such garment or cloth; next, the foot of the catch should be inserted through the opening *c* and into the button and against the plate *e;* next, the button-body should be pressed back upon the catch so as to contract the spring *f* sufficiently to carry the foot *i* of the catch beyond the jaws *c' c';* next, either the button body or the catch should be rotated ninety degrees, after which the foot of the catch will be forced by the expansion of the spring *f* into the interval *d* between the jaws, which, having taken place, the catch will be locked to the button-body.

The process of separating the button-body from the catch will be readily comprehended, it only being necessary to press the catch forward into the body, or the latter on the former, far enough to admit of the catch on the body being revolved ninety degrees, when the spring will eject the catch and disengage it from the body.

If desirable, an india-rubber washer or tube, or its equivalent, may be placed on the shank of the catch after the insertion of such shank in a garment or piece of cloth, the said tube being made to encompass the shank, and thus serve as a means of protecting a button-hole from being worn or torn by the shank.

The internal spring, *f*, may be made of metal or any other proper material, and in some cases a simple spring alone, or without the plate *e*, may be used to keep the catch in engagement with the button-body while the same may be in wear or use on a garment.

What I claim as my invention or improvement is—

The arrangement of the spring *f* within the button-body, and with the jaws *c' c'* and the opening *c* thereof, or the equivalent or equivalents therefor, substantially as described.

P. W. GENGEMBRE.

Witnesses:

R. H. EDDY,

F. R. HALE, Jr.