L. MORSE.
Sleeve-Button.

No. 226,769. Patented April 20, 1880.

Fig. 1

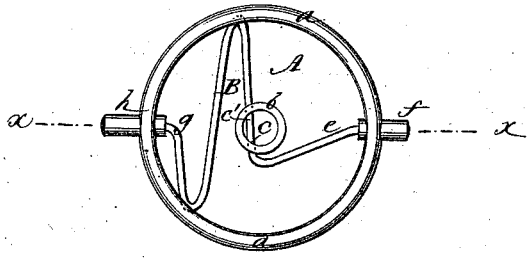


Fig. 2

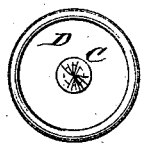
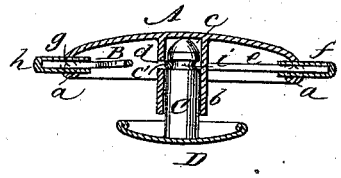


Fig. 3



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UNITED STATES PATENT OFFICE.

LEWIS MORSE, OF NORTH ATTLEBOROUGH, MASSACHUSETTS, ASSIGNOR TO E. IRA RICHARDS, OF NEW YORK, N. Y.

SLEEVE-BUTTON.

SPECIFICATION forming part of Letters Patent No. 226,769, dated April 20, 1880.

Application filed August 25, 1879.

To all whom it may concern:

Be it known that I, LEWIS MORSE, of North Attleborough, Bristol county, State of Massachusetts, have invented a new and Improved Sleeve-Button, of which the following is a specification.

My invention relates specifically to an improvement in connecting the shank of the button with the top; and the object of the improvement is to facilitate the application of the button to the cuff or other object and the fastening of the two parts thereof together.

The invention consists in a button made in two parts and provided with a single-wire spring having its ends sheathed in opposite tubes, of which one is movable and the other rigid, opposite bends of the wire being carried under the rim of the button, as hereinafter described.

In the accompanying drawings, Figure 1 is a view of the under side of the button-top, showing the socket for the shank and the spring. Fig. 2 represents the shank and the collet or disk to which it is attached; and Fig. 3 is a cross-section of the complete button, taken on line *x x* of Fig. 1.

Similar letters of reference indicate corresponding parts.

Referring to the drawings, A is the concavo-convex top of the button, having an inwardly-turned bead, *a*, on its edge. From the center of its under or concave side projects a tube, *b*, forming a socket, *c*, in the wall whereof, on one side, is a transverse slot, *d*. B is a wire spring, one part, *c'*, whereof is held in the slot *d*, and from this one end, *e*, is bent around the tube *b*, and carried to a tube, *f*, in which it is fastened. Said tube *f* passes through a hole in the bead *a* from the outside. The other part of the spring is extended from the slot to the bead, where it is bent at a sharp angle. The bend thus formed is held under the bead; it is then carried to the bead on the opposite side and bent under the bead, as before, then carried back half-way, bent out to a right angle, and the end *g* is secured in a tube, *h*, passed through the bead directly opposite and in line with tube *f*.

Tubes *f h* have their outer ends closed, and the latter is fixed, while the former is capable of being pushed in by pressing on its outer end, whereby the part of the spring in slot *d* is carried out of the same, thereby leaving the socket *c* clear for the entrance of the shank.

C is the shank, extended from the center of the disk or collet D. The end of this shank is conical, and at the base of the cone is an annular groove, *i*, in which the part *c'* enters when the shank is pushed in the socket.

The operation of the device is as follows: When the cuff is to be buttoned the shank is separated from the top, the tube *b* is then passed through the button-holes from the outside, the end of the shank is then entered into the tube from the under side, and, being pushed in, the conical end forces the spring to one side until the groove *i* is in line with it, when it springs into the groove, thus catching the shank and fastening the two parts together in the manner shown in Fig. 3.

To take the button out it is only necessary to push on tube *f*, which, being on the outside, is conveniently reached. This throws the spring out of the groove *i* and permits the shank to be withdrawn without difficulty.

This invention can be applied with advantage to shirt-studs and buttons of all kinds which are required to be put on and taken off easily and quickly.

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

A two-part button, A *b* C D, provided with a continuous single-wire spring formed with opposite bends secured under the button-rim and with ends sheathed in opposite tubes *f h*, one movable and the other rigid, as shown and described.

LEWIS MORSE.

Witnesses:

SIMEON BOWEN,

AMBROSE KURTZ.