A. MESSLER.
Button.

No. 201,268. Patented March 12, 1878.

Fig. 1.

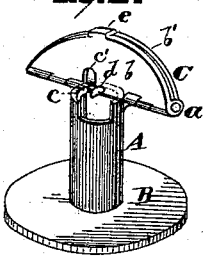


Fig. 2.

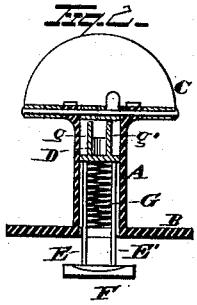


Fig. 3.

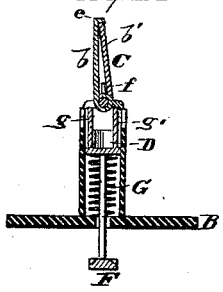
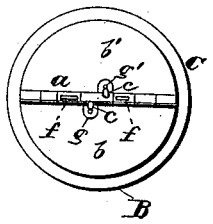


Fig. 4.



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ARNOLD MESSLER, OF PROVIDENCE, RHODE ISLAND.

IMPROVEMENT IN BUTTONS.

Specification forming part of Letters Patent No. **201,268**, dated March 12, 1878; application filed September 10, 1877.

To all whom it may concern:

Be it known that I, ARNOLD MESSLER, of the city and county of Providence, State of Rhode Island, have invented certain new and useful Improvements in 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.

Figure 1 is a view, in perspective, of my improved button or stud with the parts in position for insertion into a button-hole. Fig. 2 is a vertical section of the stud on a plane with the hinge connecting the divided disk. Fig. 3 is a vertical section at right angles to said hinge, and Fig. 4 is a plan view of the hinged disk.

In the drawings, A represents the hollow shank of the stud, having a disk, B, rigidly secured to one end thereof. To the opposite end of shank A the two-part disk C is centrally hinged at *a*. Disk C consists of the sections *b b'*, each of which is provided with arms *c*, which project through slots *c'*, formed in the opposite section of the disk. To the under side of each section *b b'* is secured an arm, *d*, for a purpose hereinafter set forth. Disk *b* is provided with a spring-catch, *e*, for securing the sections in a folded position while they are being inserted in place. Sufficient resiliency is imparted to the sections *b b'* to cause the catch *e* to hold the parts in place by means of projections *f*, secured to the knuckles of the hinge.

Within the hollow shank A is located a follower, D, consisting of a short tube. To the lower end of follower D are secured the rods E E', the latter being united at their outer ends by a cross-bar, F, the sides of which are slightly undercut, that it may be readily grasped and retracted when desired. To the upper end of follower D are secured the fingers *g g'*, which press against the ends of arms *c*, and thus serve to lock the hinged sections in a closed position, to form a continuous disk when the follower is in its raised position, where it is held by means of the spiral spring G. The parts are also strengthened while in the locked position by means of the arms *d*, which turn within the upper end of the follower.

In order to fold the hinged disks, it is necessary to first retract the follower, thus disengaging the locking-fingers *g* from the arms *c*, when the latter will press upon the ends of the fingers, as illustrated in Fig. 2, and the spring-catch *e* being locked, the stud is ready for insertion into a button-hole. After the stud has been inserted in place, the hinged sections are readily locked by simply pressing upon the cross-bar F, which operates to release the spring-catch *e* and cause the disk to assume a horizontal position.

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

1. The combination, with the hollow shank A, provided with the disk B, of the two-part disk C, centrally hinged to the shank, the sections *b b'* of disk C, provided with arms *c*, the follower D, fingers *g*, spring G, rods E E', and cross-bar F, substantially as described.

2. The combination, with the sections *b b'*, provided with arms *c* and spring-catch *e*, of the spring-pressed follower D and fingers *g*, substantially as described.

3. The combination, with the sections *b b'* and spring-catch *e*, of the projections *f*, substantially as described.

ARNOLD MESSLER.

Witnesses:
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