No. 819,897. PATENTED MAY 8, 1906.

C. H. LONSDALE.

BUTTON.

APPLICATION FILED MAY 8, 1905.

FIG. 1.

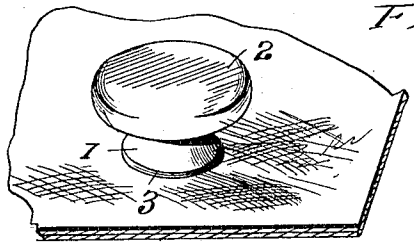


FIG. 2.

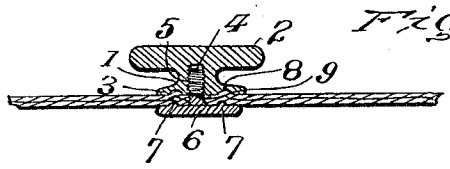
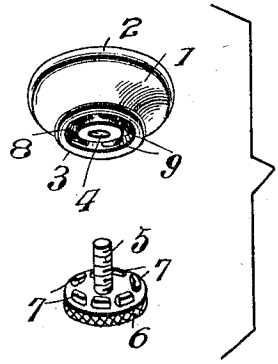


FIG. 3.



Inventor

C. H. Lonsdale,

Witnesses

J. Annie

W. V. Woodson

By R. A. B. Lacey, Attorneys

UNITED STATES PATENT OFFICE.

CLAIR H. LONSDALE, OF CHAMPAIGN, ILLINOIS.

BUTTON.

No. 819,897. Specification of Letters Patent. Patented May 8, 1906.

Application filed May 8, 1905. Serial No. 259,400.

To all whom it may concern:

Be it known that I, CLAIR H. LONSDALE, a citizen of the United States, residing at Champaign, in the county of Champaign and State of Illinois, have invented certain new and useful Improvements in Buttons, of which the following is a specification.

This invention relates to improvements in buttons, and more particularly to that class of buttons which are adapted to be attached by the individual without the use of a needle and thread.

It has for its object to produce a device of this character in which the parts will automatically interlock when attached to prevent their working loose and which will at the same time be simple and practical in construction.

Reference is to be had to the accompanying drawings, in which—

Figure 1 is a perspective view showing the device applied. Fig. 2 is a vertical longitudinal sectional view. Fig. 3 is a detached perspective view showing the parts separated.

Corresponding and like parts are referred to in the following description and indicated in all the views of the drawings by the same reference characters.

The numeral 1 designates the shank which connects the button proper, 2, and the base 3 of the button, which is provided with a threaded recess 4 for the reception of the stem 5 of the attaching-stud 6. It will be observed that the head of the stud or screw 6 is provided on its lower face with teeth or projections 7, arranged in circular form and which are adapted to fit into a corresponding groove 8 in the base 3 of the button. This groove 8 has a series of recesses or depressions 9 therein, which serve to engage the teeth 7 when the two parts are screwed together.

To attach the button, a small hole is made in the garment, through which the threaded stem 5 of the screw 6 is passed and the button proper screwed thereon. The portion of the garment around the before-mentioned hole is forced into the annular groove 8 by the teeth 7, and a firm hold is thereby obtained upon the cloth, which prevents the button from pulling out or the cloth from unraveling. When applying the button, the material is compressed between the projections 7 of the head of the attaching-stud and the face of the base 3. The parts of the material opposite to the projections 7 are compressed to an extent in the final turn of the parts, so that when the projections 7 reach a position to register with the depressions 9 the compressed portions of the material will expand and enter said depressions 9 and constitute a lock between the two parts of the button to prevent casual loosening thereof. The locking function of the projections 7 and depressions 9 is further facilitated by a slight amount of yield of the base portion 3 of the button and the head of the attaching-stud, said parts separating in the final movement of the stud and button when causing the projections 7 and recesses 9 to register.

From the foregoing description it will be readily understood that I have invented a button which can be quickly and easily attached and in which the parts will effectively interlock to prevent its pulling out or working loose.

I claim—

1. A button comprising separable parts provided in their meeting faces with an approximately circular tongue and groove, said circular groove having depressions in its bottom into which the material to which the button is applied is forced to prevent casual displacement of the button.

2. A button comprising separable parts provided in their meeting faces with an approximately circular tongue and groove, said circular tongue being notched at intervals in its circumferential length to provide a series of projections, and said circular groove having depressions in its bottom into which the material to which the button is applied is forced by the projections of the tongue to prevent casual displacement of the button.

In testimony whereof I affix my signature in presence of two witnesses.

CLAIR H. LONSDALE. [L. S.]

Witnesses:

HARRY B. BOYER,

THOMAS J. SMITH.