No. 681,588. Patented Aug. 27, 1901.

W. SWEENEY.

COLLAR BUTTON OR STUD.

(Application filed Mar. 23, 1901.)

(No Model.)

FIG 1

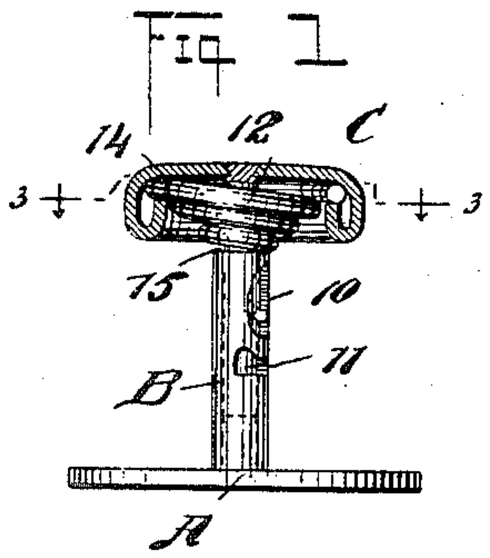


FIG 2

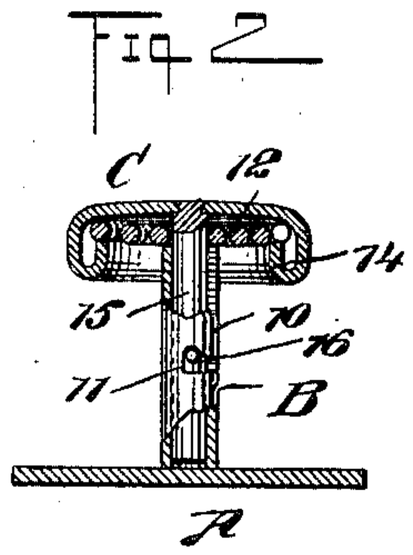
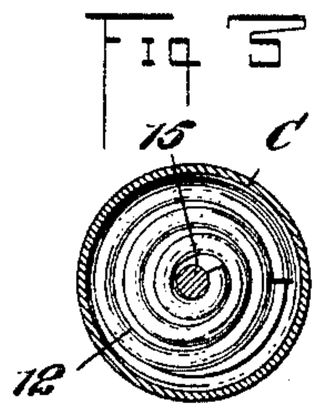


FIG 5



WITNESSES:

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WILLIAM SWEENEY, OF NEW YORK, N. Y.

COLLAR BUTTON OR STUD.

SPECIFICATION forming part of Letters Patent No. 681,588, dated August 27, 1901.

Application filed March 23, 1901. Serial No. 52,550. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM SWEENEY, a citizen of the United States, and a resident of the city of New York, borough of Manhattan, in the county and State of New York, have invented a new and Improved Collar Button or Stud, of which the following is a full, clear, and exact description.

One purpose of the invention is to provide a separable collar button or stud so constructed that the stem of the head will enter a barrel connected with the back and have a locking connection with the barrel against the tension of a spring located within the head and adapted for bearing against the barrel.

A further purpose of the invention is to provide a neat, durable, and simple form of separable button or stud and also to provide the stem with a reliable locking connection and one by means of which the parts of the button can be conveniently and readily connected or disconnected.

The invention consists in the novel construction and combination of the several parts, as will be hereinafter fully set forth, and pointed out in the claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the figures.

Figure 1 is a partial side elevation and vertical section of the button or stud, illustrating the two parts connected, but not locked together. Fig. 2 is also a partial side elevation and vertical section through the stud or button, illustrating the parts locked together; and Fig. 3 is a horizontal section taken practically on the line 3 3 of Fig. 1.

A represents the back of the button or stud, which may be in the form of a disk or be given any other desired shape, and B represents a barrel which is secured at one of its ends to the central portion of the outer face of the back A, and C represents the head of the button or stud, which head also may be given any desired shape or may be decorated or ornamented in any manner which fancy may dictate. The barrel B is provided with an angular slot comprising a longitudinal entrance member 10, which extends from the outer end of the barrel a certain distance toward its rear end, and a pocket member 11, which is horizontally located, and this pocket is enlarged at its outer end, the enlargement being in the shape of a recess produced in the outer wall of the said pocket, as is shown in Figs. 1 and 2. A spring 12 is coiled within the head C. This spring when not in action is of helical shape, as is illustrated in Fig. 1, and the upper coil of the spring is secured to the inner face of the head C in any suitable or approved manner, usually by carrying a flange 14 outward from the inner or rear edge of the head, which flange serves to hold the outer coil of the spring firmly in position against the inner face of the head, as is illustrated in Figs. 1 and 2.

A stem 15 is secured to the central portion of the head C. This stem passes down through the coil-spring 12 and is adapted to enter the barrel B and extend practically to the bottom portion thereof, as shown in Fig. 2, and the stem 15 is provided with a pin 16, adapted to enter the angular slot in the barrel. The two parts of the button being separated, when the parts are to be connected the stem 15 is made to enter the barrel and the pin 16 of the stem to enter the entrance-section of the keeper-slot in the said barrel. The head is now pressed rearward, and as the inner coil of the spring 12 will bear against the outer end of the barrel B, as shown in Fig. 1, the head is forced rearward against the tension of the spring 12, and while the head is under such tension and when the pin 16 is opposite the pocket 11 in the keeper-slot of the barrel the head is slightly turned, so as to carry the pin 16 fully into the pocket 11. As soon as the head is released the pin will be drawn outward and will enter the enlarged or recessed portion of the pocket, as is shown in Fig. 2, thus preventing the two sections from becoming accidentally unlocked or separated. The inturned edge of the button-head when formed as shown provides a depending portion, which incases the helical spring, and a spring-retaining flange, which holds the outer coil of said spring, as shown.

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

1. A separable button, comprising the back, the head, such parts having projections arranged to interlock, the head being provided

at its outer side with an inturned flange-like portion, which projects upwardly within the head, and the helical spring whose upper outer coil is held by and above the said inturned flange, substantially as set forth.

2. A separable button having its head provided with a stem and with an inturned edge, and a spring encircling said stem and having its outer coil held by the inturned edge of the head substantially as set forth.

3. In a collar button or stud, the combination, with a back section comprising a plate and a barrel secured to the plate, the barrel being provided with an angled slot comprising a longitudinal member and a horizontal pocket member, the pocket member having a recess in its outer wall at its inner end, of a head provided with a flange extending within the head from its rear edge, a coiled spring located within the head, the outer coil of the spring being held in the head by said flange, the inner coil of the spring being adapted for engagement with the outer end of the barrel, a stem secured to the head and passed through the coils of the spring, the stem being adapted to enter the said barrel, and a pin carried by the stem, adapted to pass down through the entrance member of the slot in the barrel and into the pocket member of said slot while the spring in the head is under tension, as described.

4. A separable button having its head provided on its inner side with a projecting stem and having at its edge a depending portion inturned to form a spring retaining-flange and having a helical spring whose outer coil is held by said retaining-flange, the depending portion of the head operating to incase the spring substantially as set forth.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

WILLIAM SWEENEY.

Witnesses:
J. FRED. ACKER,
JNO. M. RITTER.