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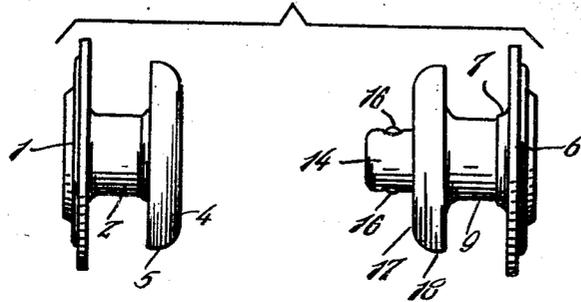
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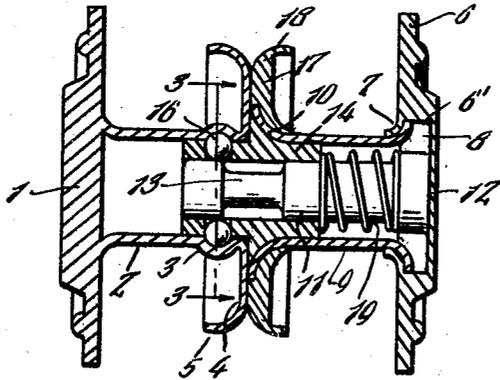
CUFF BUTTON

Filed March 17, 1930

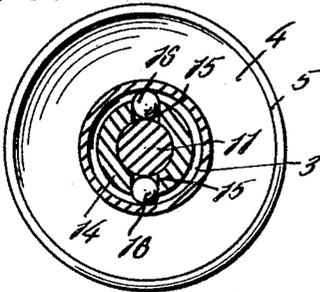
*Fig. 1.*



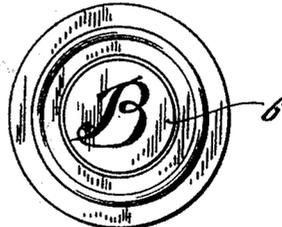
*Fig. 2.*



*Fig. 3.*



*Fig. 4.*



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# UNITED STATES PATENT OFFICE

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## CUFF BUTTON

Application filed March 17, 1930. Serial No. 436,599.

This invention relates to new and useful improvements in cuff buttons and more particularly to devices of this character of the type which comprises a pair of separable parts.

An important object of the invention is to provide, in a manner as hereinafter set forth, a cuff button of the aforementioned character embodying a construction and arrangement whereby the complementary parts constituting the same may be securely and positively locked together in such a manner that the same will not become accidentally separated.

Another important object of the invention is to provide a cuff button comprising complementary parts having manually operable co-acting locking means for securing the same together.

Other objects of the invention are to provide a cuff button of the character described which will be simple in construction, strong, durable, efficient in its use and which may be manufactured at low cost.

All of the foregoing and still further objects and advantages of the invention may become apparent from a study of the following specification, taken in connection with the accompanying drawings wherein like characters of reference designate corresponding parts throughout the several views, and wherein:—

Figure 1 is a view in side elevation showing the complementary parts separated from each other.

Figure 2 is a view in longitudinal section showing the parts coupled together.

Figure 3 is a cross sectional view taken substantially on the line 3—3 of Figure 2 looking in the direction indicated by the arrows.

Figure 4 is a view in end elevation looking at one of the ornamental heads.

Referring to the drawings in detail, the reference character 1 designates a circular head the outer face of which may be suitably ornamented. Formed co-axially on one side of the head 1 and extending laterally therefrom is a cylinder 2 having a groove 3 on its inner periphery adjacent its free end. The cylinder 2 terminates in an out-turned flange

4 having a rearwardly curved marginal portion 5.

A complementary section is adapted to be detachably connected to the cylinder 2 and said section comprises a circular head 6 the outer face of which may also be suitably ornamented. The head 6 is provided with a centrally disposed circular chamber 6' for slidably receiving the flanged end 8 of a tubular sleeve 9 having a flared outer end portion 10. A retaining flange 7 is provided around the chamber 6' for engagement with the flange 8 in a manner to prevent separation of the head 6 and sleeve 9. An elongated shank 11 extends centrally through the sleeve 9 in spaced relation thereto and is provided with a head 12 which is secured to the head 6 within the chamber 6'. Any suitable means may be provided for accomplishing this, such as soldering, or welding. Adjacent its outer end the shank 11 has formed therein a circumferentially extending elongated channel or groove 13 and mounted for longitudinal sliding movement on the shank 11 and extending over the channel 13 in a manner to bridge the same is a tube 14 having openings 15 therein which are adapted to communicate with the groove 3 in the cylinder 2 when the sections are in assembled position. The tube 14 is rigidly mounted in the outer end portion of the sleeve 9. Mounted in the tube 14 for movement through the openings 15 are the ball detents 16 which are adapted to seat in the groove 3 of the cylinder 2 in a manner to securely lock the two sections together.

A flange 17 is rigidly mounted on the flared end portion 10 of the sleeve 9 and is adapted for opposed abutting engagement with the flange 4 and said flange 17 is provided with a rearwardly turned marginal portion 18.

When connecting the two halves of the clevis, the shank 11 is moved against the coil spring 19 until the groove 13 is disposed beneath the ball detents 16. The tube 14 is then inserted in the cylinder 2 with the flange 17 in abutting engagement with the flange 4. Pressure is then removed from the shank 11 and same is returned to its first position by the spring 19. This movement of the shank

11 causes the ball detents 16 to ride up one end wall of the groove 13, pass partially through the opening 15 and seat in the groove 3 of the cylinder 2.

5 As will be seen the side walls of the channel 13 are curved. When the device is in the assembled position illustrated in Figure 2 of the drawings, and it is desired to separate the complementary sections, this may be accomplished by pressing inwardly on the head 6 in a manner to slide the shank 11 longitudinally through the tube 14 against the tension of the coil spring 19 which encircles the shank 11 within the sleeve 9 and has one end impinged against said tube 14 and the opposite end impinged against the head 12 in a manner to normally and yieldingly urge said head and shank outwardly with respect to said tube. When the shank 11 is moved inwardly through the tube 14 and the cylinder 2, the channel 13 in said shank is brought into communication with the openings 15 in the tube 14 and the ball detents are then free to shift inwardly through said openings 15 and the two halves of the device may then be separated by grasping the flanges 3 and 17 and drawing same apart. When the two complementary sections are in the position illustrated in Figure 2 of the drawings, it will be readily obvious that the same are positively locked together by the ball detents 16 which are seated in the groove 3 in the cylinder 2.

It is believed that the many advantages of a cuff button constructed in accordance with this invention will be readily understood, and although the preferred embodiment of the invention is as illustrated and described, it is to be understood that changes in the details of construction may be had which will fall within the scope of the appended claim.

What is claimed is:—

A cuff button of the cylinder described comprising a pair of complementary separable sections, one section including a head, a cylinder formed integrally on the head and extending therefrom and having a detent receiving groove in its inner wall, an outturned flange formed integrally on the free end of the cylinder, the other of said section comprising a head having a chamber therein, a tubular sleeve extending slidably into the chamber and having a flared outer end portion, a shank rigidly connected to the second named head and extending through the sleeve in spaced relation thereto and projecting beyond the free end thereof, said shank having a channel formed therein adjacent its free end, a tube mounted in the sleeve for reciprocatory movement on the shank and extending over the channel therein, said tube having openings in its side walls adapted to be brought into communication with the groove in the cylinder, ball detents disposed in the openings and adapted to seat in the pockets in the cylinder in a manner to lock the cylin-

der and the tube together, a coil spring encircling the shank and impinged against the tube and the shank head in a manner to yieldingly urge the shank outwardly in the tube, and a flange rigidly mounted on the intermediate portion of the sleeve and adapted for abutting engagement with the flange on the first named section.

In testimony whereof I affix my signature.  
CHARLES CANTONE.

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