July 26, 1955 R. W. LIBBY 2,713,707

CUFF BUTTON

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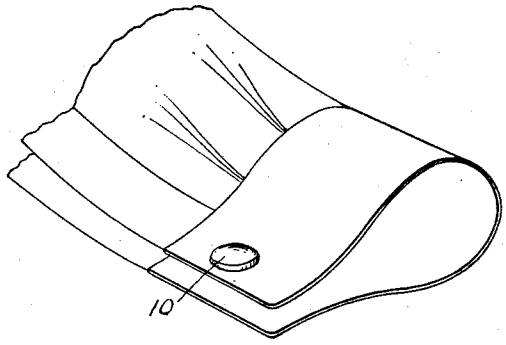


Fig. 1

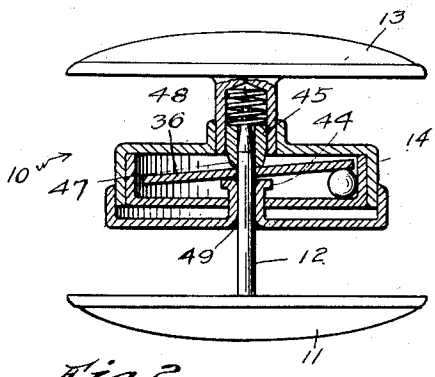


Fig. 2

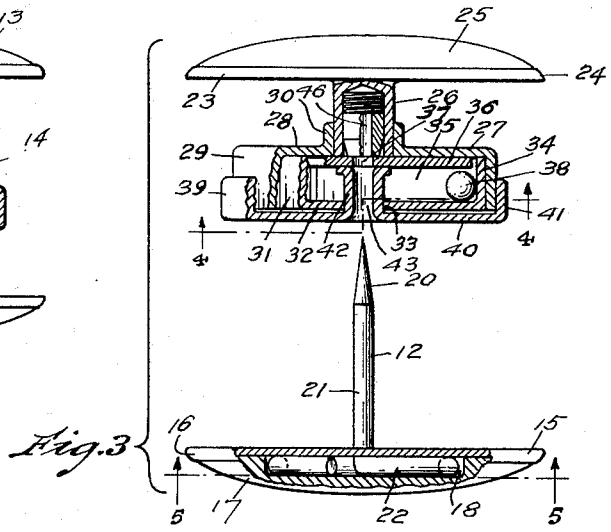


Fig. 3

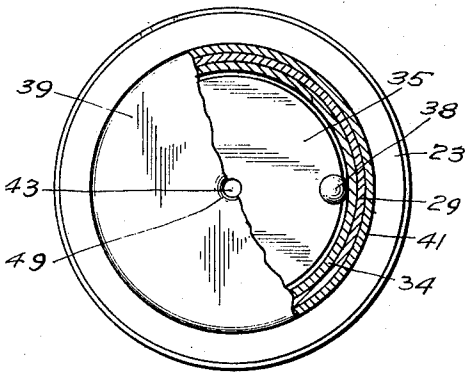


Fig. 4

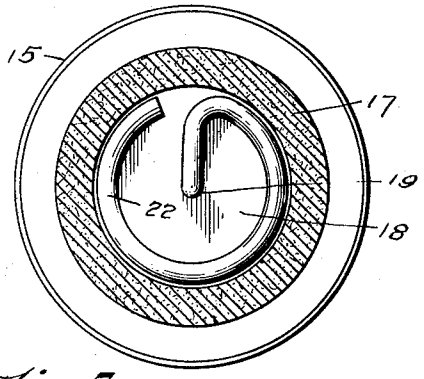


Fig. 5

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CUFF BUTTON

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2 Claims. (Cl. 24—110)

The present invention relates to the jewelry art, and has particular reference to a novel construction for a cuff button.

The principal object of the invention is to provide a cuff button having separable pairs, whereby the mounting of the cuff button on a cuff is facilitated.

Another object of the invention is to provide a cuff button having an ornamental head with a projecting post, and a second ornamental head with a lock socket for separably receiving the projecting post of the first head.

A further object of the invention is to provide a separable cuff button with releasable friction grip parts.

An additional object is to provide a separable cuff button having two ornamental members, one member having a projecting pin and the other member having a releasable lock socket for frictionally gripping the pin shank.

Another object of the invention is to make a separable cuff button of a small number of parts, which are readily manufactured and assembled, and which have an exceptionally long life.

With the above and other objects and advantageous features in view, the invention consists of a novel arrangement of parts, more fully disclosed in the detailed description following, in conjunction with the accompanying drawings, and more specifically defined in the claims appended thereto.

In the drawings,

Fig. 1 is a perspective view of a sleeve portion, showing the appearance of the novel cuff link when mounted;

Fig. 2 is a transverse section through the cuff link parts, the parts being in attached relation with the lock disk of the locket socket member gripping the projecting pin of the pin member;

Fig. 3 is a transverse section similar to Fig. 2, the parts being in separated relation and partly broken away;

Fig. 4 is a sectional detail on the line 4—4 of Fig. 3; and

Fig. 5 is a sectional detail on the line 5—5 of Fig. 3.

It has been found advisable to provide a separable cuff link having an ornamental head with a projecting post element, and a second ornamental head with a socket which has friction grip elements for detachably gripping the shank of the post element, whereby the post element is inserted into the socket to be gripped therein, and the socket parts may be manually shifted to release the post element and thus permit separation of the two heads. I prefer to make the post element of pin form, whereby the pin may be passed through the cuff button holes or through the cuff material and a sewed button, if desired, thus permitting use of the novel cuff link with both French or barrel cuffs. I further provide a socket of extended length for the pin, in order to permit an adjustment in the spacing between the ornamental heads, to accommodate different cuff thicknesses.

Referring to the drawings, which disclose a preferred embodiment of the invention, the cuff link **10** includes an ornamental head **11** having a projecting post element **12**, and a second ornamental head **13** having a lock socket

device **14** into which the post element **12** is seated to be releasably gripped therein.

The ornamental head **11** may be of any desired type, and as illustrated includes a cup shaped base **15** having an anuular flange or rim **16** in which an ornamental stone **17** is locked, as by swaging the rim **16** around the stone. The stone **17** is provided with an inner circular recess **18**, see Fig. 3, and the base **15** has a central opening **19**, whereby the post element **12**, which is in the form of a pin having a sharp point **20**, a shank **21**, and a spiral base **22** is readily mounted and locked in the recess **18** to project outwardly as shown.

The ornamental head **13** may also be of any desired type, and as illustrated includes a cup shaped base **23** having an annular flange or rim **24** in which an ornamental stone **25** is locked by swaging the rim **24** therearound. A cylindrical hub **26** depends from the base **23**, and may be soldered thereto or formed integral therewith; an annular cup element **27** which has a base **28**, an annular rim **29**, and a central annular flange **30** is secured on the hub **26**, preferably by soldering.

A second cup element **31** is provided, having a base **32** with a central opening **33** and an outer annular flange **34**, and is locked into the cup element **27** in reverse relation, by force fit if desired, to provide a circular recess **35** in which a disk **36** having a central opening **37** and a steel ball **38** is seated as shown, the two cup elements providing an annular housing in axial alignment with the hub. An outer cap **39** having a base **40**, an annular rim flange **41** slidably mounted over the cup element rim **29**, and a central bearing **42** slidably received in the opening **33** of the cup element **31**, may be manually moved towards the head **13**, the bearing **42** having a central bore **43** and the end of the bearing **42** being flared out as indicated at **44** to hold the cap in position. A thimble **45** having a central bore **46** and a reduced lower end **47** is movably seated in the hub **26** and is spring pressed downwardly by a compression coil spring **48**, see Fig. 2.

The bearing bore **43** and the thimble bore **46** are slightly larger than the diameter of the pin shank **21**, to permit free sliding insertion therethfough; the disk opening **37** is somewhat larger than the pin shank diameter, whereby the disk may tilt with respect to the pin shank by the downward pressure of the spring **48** on the thimble. The outer cap **39** has its bearing bore enlarged in conical form as indicated at **49**, to facilitate insertion of the pin point thereinto. The assembled socket parts thus described constitute the lock socket device **14**.

In use, the ornamental head **13** is placed in the one button hole of a French cuff, or in the button hole of a barrel cuff, with the button hole edges between the ornamental head and the cup element **27**. The pin element **12** is passed through the other button hole, or, in the case of a barrel cuff, is passed through the cuff material and through one of the openings of a sewed button, and is readily inserted into the conical entrance **49** of the lock socket device, to extend through the cap bearing bore, the disk opening, and the thimble opening; thereupon the thimble is resiliently urged down to tilt the disk. The edges of the disk opening to thereupon firmly grip the pin shank, thus keeping the cuff button parts together until manual pressure on the cap drawing it towards the head **13** moves the disk upwardly as shown in Fig. 3 to permit withdrawal of the pin and separation of the cuff button heads.

Although I have disclosed a specific constructional feature of my invention, it is obvious that changes in the size, shape and arrangement of the parts may be made to meet certain other requirements, without departing from the spirit or the scope of the invention as defined in the appended claims.

I claim:

1. A separable cuff link, comprising an ornamental head with a projecting pin, and a second ornamental head having a socket device mounted thereon for releasably gripping the pin, said socket device including a cylindrical hub, an annular housing depending from and in axial alignment with the hub, a disk freely movable in said housing, a thimble in the hub spring pressed to press engage the disk, a tilting element in said housing adapted to tilt the disk when it is pressed down by the thimble, and a cap having a central bearing slidably extending into a central opening in the housing and contacting the disk in opposed relation to the thimble, said cap bearing disk and thimble having aligned pin receiving openings, whereby insertion of the pin through the aligned openings and tilting of the disk by the spring pressed thimble locks the pin shank against the edges of the disk opening until movement of the cap towards the housing turns the disk to release the pin shank.

2. In the combination of claim 1, said disk tilting element being a ball within the housing.

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