G. B. MANNING.

SAFETY COLLAR BUTTON.

APPLICATION FILED AUG. 28, 1913.

1,148,978.

Patented Aug. 3, 1915.

Fig. 1.

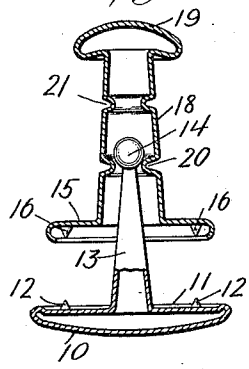


Fig. 2.

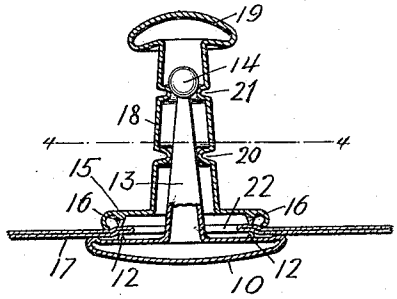


Fig. 3.

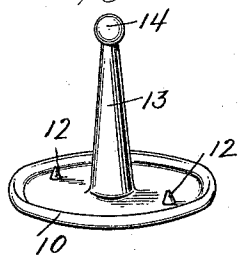


Fig. 4.

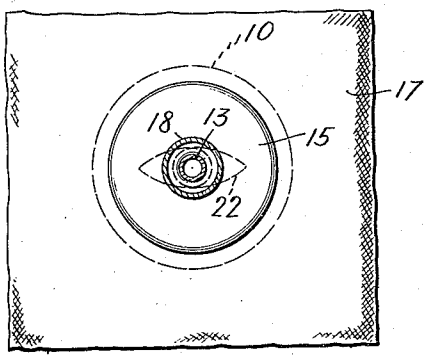


Fig. 5.

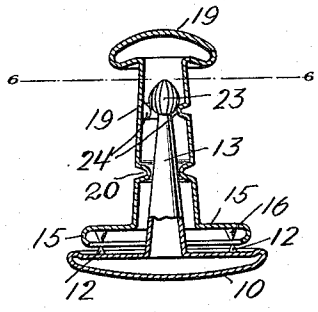


Fig. 7.

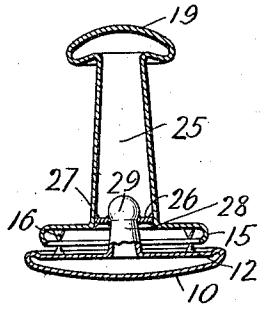
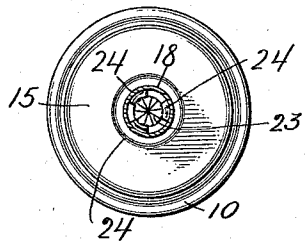


Fig. 6.



WITNESSES

Oliver K. Holmes

J. Edwin Burch.

INVENTOR

GEORGE B. MANNING

BY Munn & Co

ATTORNEYS

COLUMBIA PLANOGRAPH CO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

GEORGE BRITON MANNING, OF ATLANTIC CITY, NEW JERSEY.

SAFETY COLLAR-BUTTON.

1,148,978. Specification of Letters Patent. Patented Aug. 3, 1915.

Application filed August 28, 1913. Serial No. 787,104.

To all whom it may concern:

Be it known that I, GEORGE B. MANNING, a citizen of the United States, and a resident of Atlantic City, in the county of Atlantic and State of New Jersey, have invented a new and Improved Safety Collar-Button, of which the following is a full, clear, and exact description.

This invention has special reference to an improved safety collar button consisting of two sections designed to be movably engaged and to clamp the material of the neckband or other garment between the bases of said movable parts or sections.

A further object of the invention is the provision of an improved collar button which consists of a base having a stem provided with a head or enlargement at its free end, and an outer shell also provided with a base and head and further provided with interior walls or depressions adapted to permit the frictional engagement of the head of the stem therethrough so as to retain the bases of the sections in spaced relation or in contact, said sections when in the first-named position being capable of displacement through a buttonhole by passage of the second-named head diagonally through said buttonhole.

With the above and other objects in view, the invention resides more particularly in the peculiar combination and arrangement of parts which will be illustrated as a preferred embodiment in the accompanying drawings and described in the specification.

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 views, and in which—

Figure 1 is a vertical sectional view of a safety collar button constructed in accordance with the invention, the stem of the inner part of the button being shown partly in elevation and the sections being spaced apart; Fig. 2 is a view similar to Fig. 1 but showing the button in operative position upon a section of cloth illustrating a portion of a neckband; Fig. 3 is a perspective view of the inner section of the button; Fig. 4 is a cross sectional view on the line 4—4 of Fig. 2; Fig. 5 is a view similar to Fig. 2 but showing a modified form of head for the inner stem, as well as a modified form of depression or retaining means for holding the sections in such relation; Fig. 6 is a sectional view taken on the line 6—6 of Fig. 5; and Fig. 7 is a vertical sectional view of a further modified form of button.

In Figs. 1, 2, 3 and 4 of the drawings, the button is shown as comprising separate sections consisting of a base 10, preferably of sheet metal, said base being convexed on its inner face and having a flat outer wall 11 provided with outwardly projecting studs 12. A stem 13 is formed integrally with the base, also in the form of a shell, and is provided with a cylindrical head 14 of solid formation. The other section of the button is provided with a base 15 having a rounding flange at its surrounding edge and which is open at its inner side and which is further provided with inwardly projecting studs 16 designed to be disposed in staggered or opposed relation to the studs 12 and designed to coöperate therewith in engaging the material of a neckband 17 or other cloth material provided with a buttonhole for use in such manner.

The stem 18 of the outer section of the button, which button as it will be seen is constructed in two parts, is integral with the base 15 and is somewhat enlarged relative to the stem 13, and is further provided with an enlarged head 19 designed to be passed through the buttonhole in the usual manner. The stem 18 at spaced points is provided with continuous depressions 20 and 21, respectively, formed by stamping in the metal to produce partitions with restricted throats or passages through which the head 14 of the stem 13 may be forced. Normally, the head 14 is held between the spaced depressions in the manner shown in Fig. 1 of the drawings, and after the head 19, stem 18 and base 15 are passed through the buttonhole 22, the base 15 being arranged diagonally for this purpose, the button sections are forced together by exerting pressure against the spaced bases 10 and 15, thus forcing the head 14 beyond the depression 20 by which it is held from outward displacement, through the restricted passage formed by the depression 21, thus to cause the studs 12 and 16 to engage the cloth in the manner shown in Fig. 2 of the drawings and to hold the sections in assembled position. A button of this type may be readily withdrawn and applied, but owing to the fact that the base 10 is considerably larger than the base 15, the neckband or other similar portion of an article of apparel may be unfastened without liability of the button being lost.

In Fig. 5 of the drawings the parts are of the same construction except that the stem 13 is provided with an elastic corrugated head 23 which tapers toward its ends to spring through the restricted throats, but in lieu of the depression 21 a plurality of spaced depressions 24 are provided to cooperate with the head 23, whereby the latter may be made slightly larger and still not be mutilated in being forced past the depressions. It is also to be understood that the outer depressions 20 in each of the aforesaid forms of the invention are designed to form more restricted throats than the depressions 21 or 24, thus preventing the sections from becoming displaced when the heads are drawn through the throats formed by the depressions 21 or 24 and into the space between the spaced depressions of the stem of the outer section or shell.

In the form of the invention shown in Fig. 7 of the drawings, the outer section is provided with a plain and uninterrupted stem 25, at the inner end of which an apertured wall 26 is secured, as by means of solder 27, and the base 10 is provided with a relatively short stem 28 having a slightly enlarged globular head 29 designed to be permanently and rigidly attached to the wall 26 or snapped therethrough, but in such a manner as to allow sufficient space to accommodate the neckband held between the bases of the sections. Either button is applied by first passing the head 19 through the buttonhole or buttonholes and then angularly disposing the button to pass the base 15 of one section thereof through the buttonhole, so that the button will be disposed in the manner shown in Fig. 2 of the drawings. When the collar button is thus secured in position, in either of the forms illustrated, the collar or other article of apparel is engaged over the outer shell and retained from displacement by the head 19 in the usual way.

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

1. A safety button embodying an inner section having an enlarged base, a stem and a head at the free end of the stem, an outer section consisting of a shell having an integral base of less diameter than the first named base and a head, said latter base having a rounding flange at its surrounding edge, said last named stem having means to permit forcible engagement of the first named head therethrough to hold said bases in a plurality of adjusted positions in spaced relation, said button being designed to be applied angularly through a buttonhole so that the material may be clamped between the bases, and studs projecting in opposite directions from the opposed faces of the bases to engage said material.

2. A safety button embodying an inner shell section having an enlarged hollow base having a convexed inner face and a depressed and relatively flat outer face, a stem integral with the base and a head at the free end of the stem, an outer shell section consisting of a shell having a base of less diameter than the first named base and open at its inner side, and a head, said last named stem having a restricted portion to permit forcible engagement of the first named head therethrough and into the first named stem to hold the bases against accidental separation.

3. A safety button embodying an inner section having an enlarged hollow base with a convexed inner face and a depressed outer face, a stem integral with the base and a head at the free end of the stem, an outer section consisting of a shell having a flanged base of less diameter than the first named base and open at its inner side, a head, said last named stem having a restricted portion to permit forcible engagement of the first named head therethrough and into the first named stem to hold the bases against accidental separation and oppositely projecting studs carried by the bases and designed to coöperate to grip a section of material held between said bases, certain of said studs projecting from the depressed face of the first named base and beyond the extreme portion thereof and the other studs projecting from the inner face of the second named base and terminating adjacent the edge of the flange therefor, whereby the studs will hold the material therebetween by friction.

4. A safety button embodying an inner section having an enlarged base, a stem and a head at the free end of the stem, an outer section consisting of the shell having an integral base of less diameter than the first named base and a head, said latter base having a rounding flange at its surrounding edge, said last named stem having means to permit forcible engagement of the first named head therethrough to hold said bases in spaced relation, said button being designed to be applied angularly through a buttonhole so that the material may be clamped between the bases, and studs projecting in opposite directions from the opposed faces of the bases to engage said material.

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

GEORGE BRITON MANNING.

Witnesses:
JOHN C. BURCH,
GEORGE H. EMSLIE.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."