

O. D. BELL.
FASTENER FOR BUTTONS AND OTHER ARTICLES.
APPLICATION FILED APR. 24, 1912.

1,050,716.

Patented Jan. 14, 1913.

Fig-1-

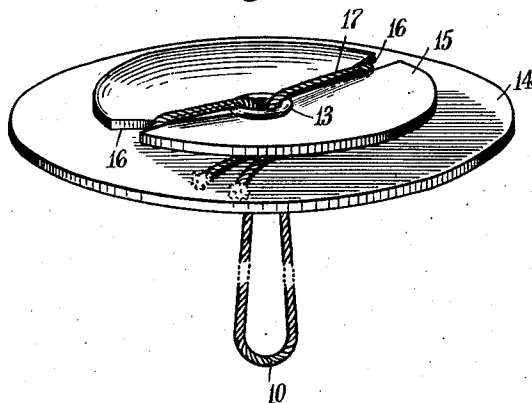


Fig-2-

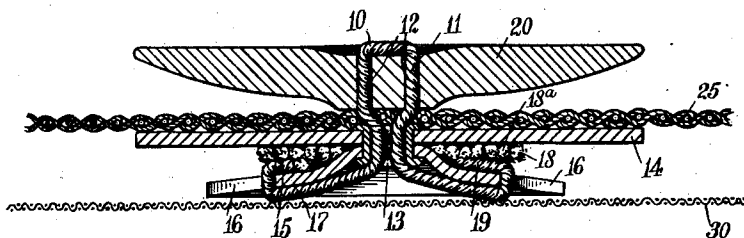
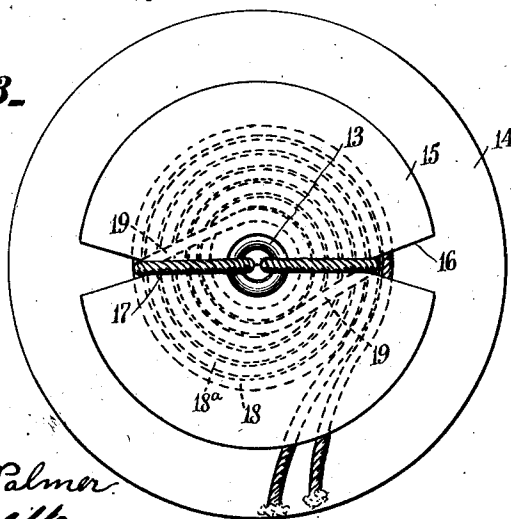


Fig-3-



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FASTENER FOR BUTTONS AND OTHER ARTICLES.

1,050,716.

Specification of Letters Patent.

Patented Jan. 14, 1913.

Application filed April 24, 1912. Serial No. 692,819.

To all whom it may concern:

Be it known that I, OTIS D. BELL, a citizen of the United States, and a resident of the city of New York, borough of Brooklyn, in the county of Kings and State of New York, have invented a new and Improved Fastener for Buttons and other Articles, of which the following is a full, clear, and exact description.

My invention relates to that class of fasteners known as friction or tension fasteners, and involves a cord having looped engagement with the article to be fastened, and disks for frictionally gripping the ends of the cord.

My invention is more especially intended for use in fastening buttons to garments made of fur or heavy fabrics, and the object of the invention is to provide an improved arrangement of the fastening cord and friction disks whereby the button may be conveniently and firmly fastened to the garment without sewing, and without the liability of the button becoming loose.

The invention will be particularly explained in the specific description hereinafter to be given.

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.

Figure 1 is a perspective view of my improved fastener; Fig. 2 is a sectional view through the fastener and through a button and a portion of a garment; and Fig. 3 is a rear or inner side view of the fastening disks and cord in the fastened position.

The cord, forming part of my fastening means, is doubled on itself at substantially its center of length, into a loop 10, which loop is passed around the article to be fastened, or through the same. In Fig. 2 the bend of the loop lies against the face of a button 20, the sides 11 of the loop being passed through eyes 12 in the button. The cords at the inner side of the button are brought into close relation and passed through the garment 25 to the rear side of the fur or fabric forming said garment. The cord is passed from the loop through an eyelet 13 which secures together a plain base disk 14 and an outer notched cord-locking disk 15. The locking disk 15 is formed with diametrically opposite notches 16 in the pe-

riphery, and the ends of the cord are passed from the eyelet 13 radially, as at 17, over the rear face of the locking disk 15 in opposite directions and inward through the notches 16. The free ends of the cord are then wound one within another to form alternate convolutions 18, 18^a, as close to the eyelet as the friction between the disks will permit. It will be observed that the eyelet 13 forms an eye common to both of the disks, and a means for fastening the disks together. Thus the ends of the loop in the cord run freely from the loop engaging the button or other article, through the eyelet to the back of the notched locking disk, and reliance is had on the tension of the cord to hold the button or other article without sewing or tying. The button thus has such flexible connection with the garment as to permit of the button being engaged with a button hole conveniently, and yet the button is held so firmly as to not pull out or strain the fabric, since the strain will come on the eyelet, the outer end of which lies tightly against the back of the fabric 25.

The plain base disk 14 is of larger diameter than the notched locking disk 15, and with the described arrangement of the cord, having the loop freely passing through the eye common to both disks, when the ends of the cord have been passed through the notches 16 to the space between the disks, the wider disk supports the two ends of the cord, and either end may be grasped and wound around the eyelet between the disks, the cord thus grasped serving to carry the other end around with it so that the two ends of the cord will be wound in alternate convolutions. The described arrangement of the disks and cord results in firmly fastening the button in position without sewing or without the formation of knots, and the convolutions of the cord between the disks lie in the same plane, each convolution or partial convolution adding its frictional bite against the portions 19 of the cord that lie between the disks and range tangentially to the eyelet and extend to the notches, thus giving a secure fastening without any bunching, the result of which is that the lining of the garment, which is laid over the rear faces of the disks, will lie substantially smooth and the button-fastening means will produce no pronounced protuberances.

Having thus described my invention, I

claim as new and desire to secure by Letters Patent:

1. The herein-described fastening means for buttons and other articles, consisting of
5 a plain base disk, an outer disk of less diameter than the plain disk and having peripheral notches at two diametrically opposite points, a central eye and fastening device common to the two disks, and a cord
10 doubled on itself forming a substantially central fastening loop for embracing the button or other article to be secured, both lengths of the cord adjacent to the loop passing through the central eye common to the
15 two disks and freely sliding therein, the cord extending from said central eye radially outward in opposite directions and inward through the peripheral notches of the outer disks to the space between the disks,
20 the ends of the cord being adapted to be wound in a similar direction in alternate convolutions over inwardly extending tangential portions of the cord, the convolutions being in the same plane and being frictionally held between the opposed surfaces
25 of the disks.

2. The herein-described fastening means for buttons and other articles, consisting of a base disk, an outer disk of less diameter than the base disk and having two notches in its
30 periphery, the disks having a central eye passing through both, and a cord doubled on itself forming a substantially central fastening loop for embracing the button or other article, both stretches of the cord adjacent to the loop passing through the eye
35 common to the disks to have a free movement therein, the cord extending from the eye outward to the periphery of the smaller disk and through the notches therein to the
40 space between the disks, the two ends of the cord being adapted to be wound into convolutions lying in the same plane between the disks and frictionally held by said disks.

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

OTIS D. BELL.

Witnesses:

ALICE E. RITCHELL,
B. BRODMANN.