

[54] **BUTTON-TYPE GRIPPING DEVICE**

[75] Inventor: **Josephine Cooley Nolan**, Queens Village, N.Y.

[73] Assignee: **The Raymond Lee Organization, Inc.**, New York, N.Y. ; a part interest

[22] Filed: **Nov. 16, 1973**

[21] Appl. No.: **416,491**

[52] U.S. Cl. **24/103**

[51] Int. Cl.² **A44B 1/18**

[58] Field of Search . 24/90 W, 49 CP, 49 P, 150 A, 24/155 SD, 103, 102 T

[56] **References Cited**

UNITED STATES PATENTS

252,685	1/1882	McGill	24/103 UX
295,575	3/1884	McNair	24/103
1,109,283	9/1914	Elmore	24/49 CP
1,133,477	3/1915	Kamp	24/150 A
1,287,964	12/1918	Goozey	24/103 UX

1,358,465	11/1920	Reston	24/49 P
1,635,785	7/1927	Gross	24/103
2,104,885	1/1938	Robbins	24/103 UX
2,874,433	2/1959	La Rue et al.	24/103
3,262,170	7/1966	Gill	24/102 T UX
3,293,710	12/1966	Ammirati	24/103

FOREIGN PATENTS OR APPLICATIONS

23,879	10/1913	Norway	24/150 A
--------	---------	--------------	----------

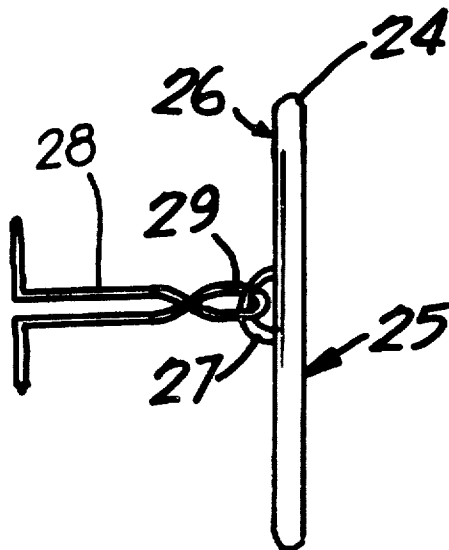
Primary Examiner—Donald A. Griffin

Attorney, Agent, or Firm—Daniel Jay Tick

[57] **ABSTRACT**

A button-type gripping device comprises a button having a projection extending substantially perpendicularly from the rear surface thereof. A fastening member of hard plastic has a bore therein adapted to accommodate the projection of the button in a manner whereby the button and the fastening member are adapted to be removably coupled thereby holding together material.

2 Claims, 4 Drawing Figures



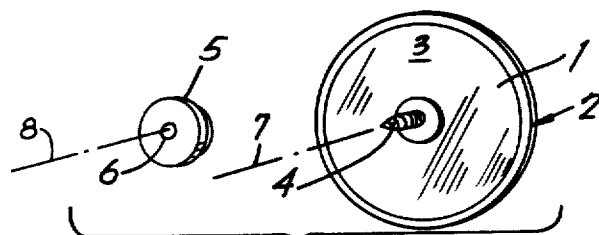


FIG. 1.

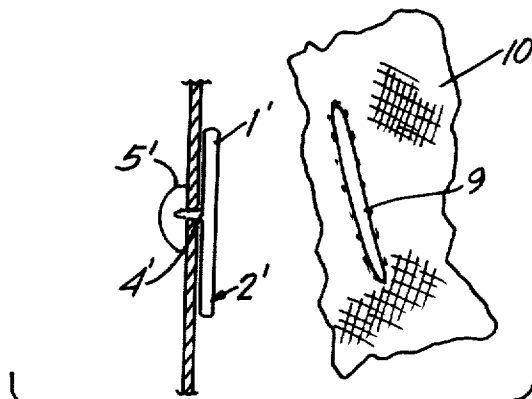


FIG. 2.

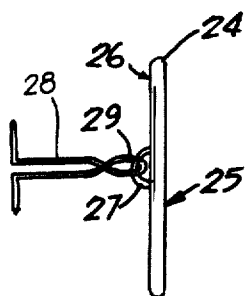


FIG. 4.

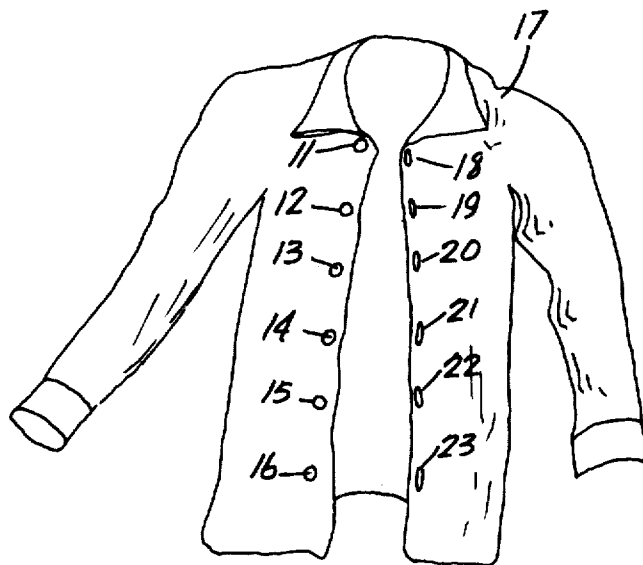


FIG. 3.

BUTTON-TYPE GRIPPING DEVICE

DESCRIPTION OF THE INVENTION

The invention relates to a button-type gripping device.

An object of the invention is to provide a button-type gripping device of simple structure without sewing which removably fastens material with facility, convenience, effectiveness, simplicity and reliability.

Advantages of the invention are rapid insertion of a button or buttons and replacement of lost buttons without sewing. Also, after pinch pleats have been formed in draperies the device of the invention fastens without sewing, and is removable to permit dry cleaning of the draperies. The device of the invention may be used with button holes or solely for decoration.

In order that the invention can be readily carried into effect, it will now be described with reference to the accompanying drawings, wherein:

FIG. 1 is a schematic diagram of an embodiment of a button with a fastening member of the button-type gripping device of the invention;

FIG. 2 is a side view of another embodiment of the button-type gripping device of the invention;

FIG. 3 is a schematic diagram of a plurality of the button-type gripping device of the invention affixed to an article of clothing wherein buttonholes are over the buttons; and

FIG. 4 is a side view of still another embodiment of the button-type gripping device of the invention.

The button-type gripping device of the invention comprises a button 1 (FIG. 1) having a front surface 2 (FIG. 1) of any desired design, cloth covered, metal, bone, wood, and so on. The button 1 has a rear surface 3 (FIG. 1) and a projection 4 (FIG. 1) extending substantially perpendicularly from said rear surface. The projection 4 is externally threaded and is tapered to a point as it nears its end, so that it may readily go through material.

A fastening member 5 of plastic metal, or the like (FIG. 1), has a bore 6 (FIG. 1) formed therein which is internally threaded. The button and the fastening member are adapted to be removably threadedly coupled thereby holding together an interposed layer or layers of material (not shown in FIG. 1).

The button 1 has an axis 7 and the fastening member 5 has an axis 8 (FIG. 1). The projection 4 is coaxial with the button 1 and the bore 6 is coaxial with the fastening member 5.

In the embodiment of FIG. 2, the projection 4', is not externally threaded, but is a pin. The fastening member 5' is a piece of cork, covered by plastic or metal. The button 1' and the fastening member 5' are thus adapted to be removably coupled to each other in the manner of a pin cushion. A button hole 9 is formed in an article

of clothing 10.

FIG. 3 shows a plurality of clothing fastening devices of the invention, having buttons 11, 12, 13, 14, 15 and 16, affixed to an article of clothing such as, for example, a shirt 17. The shirt 17 has button holes 18, 19, 20, 21, 22 and 23.

The clothing fastening device of the embodiment of FIG. 4 of the invention comprises a button 24 having a front surface 25, a rear surface 26 and a coupling member 27 such as, for example, a ring or loop, on its rear surface.

A fastening member 28 is movably coupled at one end 29 to the coupling member 27 of the button 24. The fastening member 28 is a flexible U-shaped pin which is passed through the material it fastens and then separated, as in a cotter pin, as shown in FIG. 4.

The embodiment of FIG. 4 is adapted as one unit. The button is manufactured with the loop 27 on its rear surface 26. The pin 28 is a very sturdy thin double pin resembling the very old fashioned hair pin. The head end 29 of the double pin 28 is bent over the loop 27 to form its own hook and to encircle the loop securely. The two free ends of the pin 28 are inserted into material on the right side thereof, and then are bent away from each other.

The embodiment of FIG. 4 can be used by uniformed men, governments, etc. It can be used without button holes for mattresses, day beds, etc. In any event, it can be used with or without button holes.

While the invention has been described by means of specific examples and in specific embodiments, I do not wish to be limited thereto, for obvious modifications will occur to those skilled in the art without departing from the spirit and scope of the invention.

I claim:

1. A button-type gripping device, comprising a button having a front and a rear surface; a coupling member affixed to the rear surface of the button; and

a substantially U-shaped pin having a pair of next-adjacent parallel arms each terminating in a sharp material piercing point, said arms being bent around each other to form a closed loop head releasably coupled to the coupling member and serving to space the button from associated material to which the button is secured, the arms of the pin passing through said material and being bent near the ends thereof outwardly away from each other.

2. A button-type gripping device as claimed in claim 1, wherein the coupling member affixed to the rear surface of the button comprises a loop, and the arms of the pin are bent around each other to form a closed loop head releasably coupled to the loop of the button.

* * * * *