Sept. 19, 1967 R. GILL 3,341,905

TWO-PART BUTTONS

Filed Oct. 30, 1964

FIG. 1

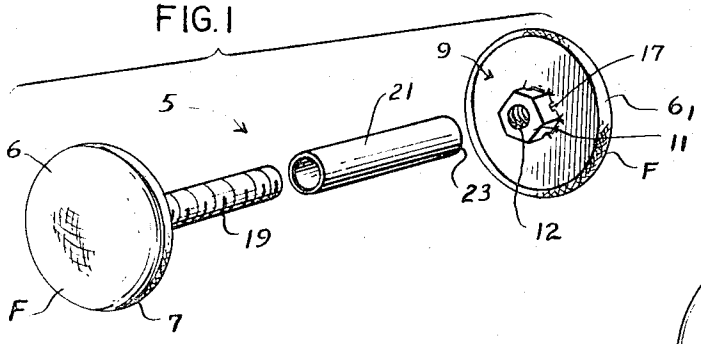


FIG. 2

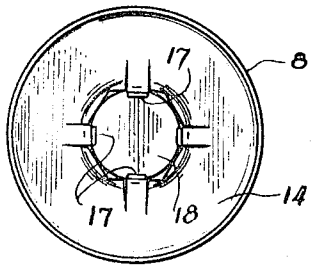


FIG. 3

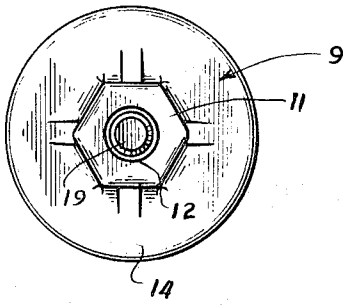


FIG. 4

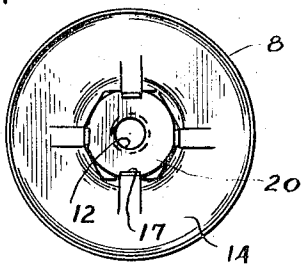


FIG. 5

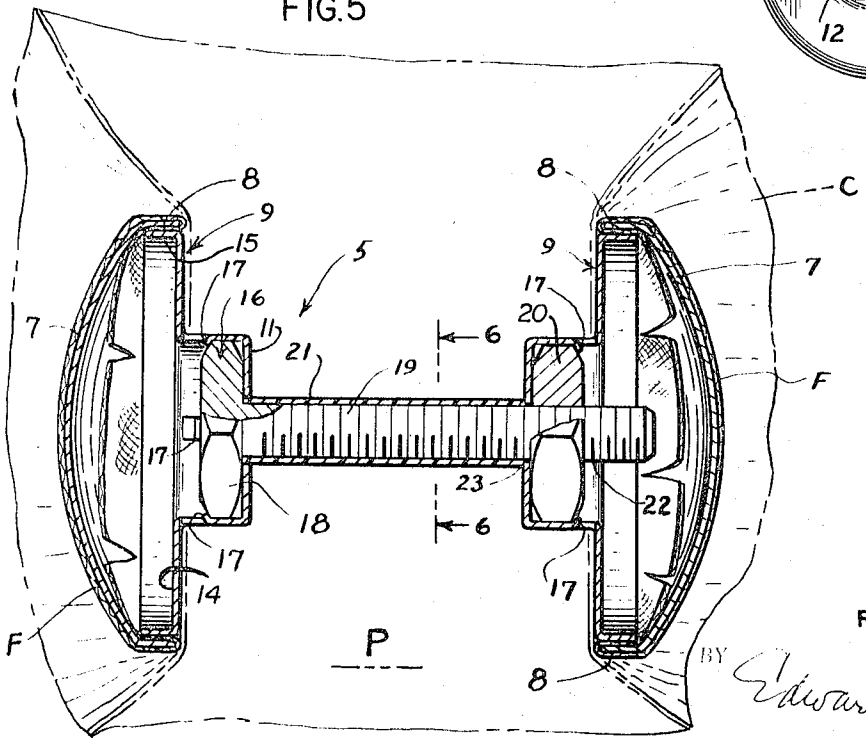
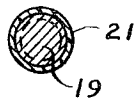


FIG. 6



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TWO-PART BUTTONS

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My invention relates to buttons and specifically it covers screw-type two-part buttons suitable for use as a single or double button for a wide range of decorative and other useful purposes, and constitutes a continuation-in-part of my application Ser. No. 386,816, filed Aug. 3, 1964, now Patent Number 3,262,170.

A disadvantage of the presently utilized "tack back type" of buttons, a two-part button which has a projecting tack in one part which can be pressed into an orifice in the other part is that, once joined together, the button cannot be separated without fracturing the button or breaking the orifice if cleaning of the cover becomes necessary or desirable.

A principal object of my invention encompasses the provision of a two-part button of the screw type which can be:

(a) Economically manufactured,
(b) Readily fastened together to a "stop" position,
(c) Expeditiously separated for cleaning and/or working on the object in which the button is fastened, or is holding.

Other and principal objects include (a) a button which can be employed separately by using a screw to securely position the button, (b) a button the exposed screw member of which is covered by vinyl or other man-made material to protect the fabric or material in which the button is seated, (c) a button with a screw covered with a vinyl sleeve for a mapor portion of its length, which acts as a stop when the parts of the buttons are fastened together, and (d) the said vinyl sleeve also serving as a stop to prevent displacement of the button cover. The term "vinyl" is intended to encompass vinyl plastic material and equivalent material having the required flexilibity, strength and other characteristics.

Other objects envision a button for making:

(a) Covers for decorative pillows,
(b) Hassocks,
(c) Cornices,
(d) Chair backs,
(e) Bedboards,
(f) Slip covers and other covers,

with all of the foregoing readily removable through use of the button, for cleaning and/or change.

Still another object is a button useful as cuff-links and for wearing apparel including, but not limited to, hats, handbags, decorative belts and other accessories.

Another object envisions the ready separation of one half the button from the other half if change of color of the button to match a color ensemble in room or dress, or cleaning of an object or the button itself, is necessary.

These and other objects will be manifest.

The invention, briefly described, includes a single or two-part button, each part having a cover or head which is susceptible of being decoratively covered or sprayed and a matching base having a chambered casing, one part fixedly holding a threaded sleeve-covered screw and the other part a nut. Other shaped casings and headed screws and nuts are, of course, within the scope of the invention, and the button base portions and covers may be molded, extruded or otherwise fabricated of man-made fibres, and various other refinements will be obvious. The sleeve which covers the major portion of the threaded portion

of the screw, may be fabricated of vinyl or other equivalent man-made materials.

To the accomplishments of the recited objects and others coordinate therewith, the invention resides in the construction and arrangement of parts shown in the accompanying drawings, described in the following specification and embraced within the scope of the appended claims.

In the drawings:

FIG. 1 is an exploded propective view of the button, with the sleeve covering the threaded portion of the screw.

FIG. 2 is a rear elevational view of the stud end of the button with the button cover removed.

FIG. 3 illustrates a front elevational view of the button with the stud or bolt showing.

FIG. 4 is a rear elevational view of nut part of the button with cover removed.

FIG. 5 is a sectional view of the button assembly showing schematically in phantom lines one use of button on removable cover of pillow.

FIG. 6 cross-section taken along line **6**—**6** of FIG. 5.

Referring to the drawings, for purpose of explication, below are the numbered parts:

5—the button
6 and **6$_1$**—the parts of the button
7—covers or heads of the button
8—rimmed flange of covers
9—the base
11—hex-shaped integral chambered casing
12—orifice of casing **11**
14—disc of base **9**
15—wall upstanding from disc
16—hex-headed threaded stud
17—tabs struck from material of disc
18—head of stud or screw **16**
19—threaded shank or post of stud
20—threaded nut
21—vinyl sleeve or tubing covering shank or post **19**
22—portion of shank or post **19** not covered by sleeve or tubing **21**
23—upper end of sleeve or tubing **21**
P—pillow
F—fabric
C—pillow cover

In the drawings it is to be understood that like numbers refer to like parts, and in the description the word "sleeve" includes the trade term "tubing."

In carrying out the invention, **5** designates the button, comprising halves **6** and **6$_1$**, which includes covers **7**, which may be decoratively covered as by fabric F, held by the depending rimmed flange **8** of the covers or heads **7**, with the excess of fabric F confined within the covers **7**. Or cover **7** may be sprayed, with no fabric covering.

Base **9**, which may be stamped or otherwise fabricated of metal or, as will be hereinafter shown, molded, extruded or formed of man-made materials such as the trademarked products named "Teflon," "Delrin" or the like, is fashioned with centrally disposed hex-shaped chambered casings **11**, orificed at **12**, integral discs **14** and right angled peripheral walls **15**.

Anchored in the casing **11** of button half **6**, as by tabs or ears **17**—see FIGS. 2, 3, 4, and 5 which may be die punched from the material of disc **14**, is a hex-headed stud or screw **16**, securely holding head **18** of the stud, with the threaded shank **19**, covered by sleeve **21**, extending through orifice **12** of casing **11**. Shank **19** is threaded to mate the threads of hex-headed nut **20**, similarly anchored in the companion casing **11** of button half **6$_1$**. Sleeve **21** fabricated of thin walled vinyl plastic, covers the exposed threaded portion of shank **19** with the exception of portion **22**.

Sleeve **21** is manufactured with an interior diameter which closely fits to outside diameter of threaded stud **19**, and I have found that, when the sleeve is slipped over and down said stud to the position shown in FIG. 5, it is virtually impossible to remove or dislodge and is securely anchored.

As illustrated by FIG. 5 the outer portion **22** of shank or post **19** is not covered by sleeve **21**, the upper end **23** of which acts as a stop when button half 6_1 is threaded on post **19** to:

(a) Prevent displacement of cover **7** of button half 6_1, which would occur if the latter were threaded further home,

(b) Serve as a brake which effectively prevents untoward loosening of button half 6_1 from half **6**.

Sleeve **21** also has another capital advantage in that it protects the fabric or material in which my button is seated, from discoloration from the metal of stud **19**.

It is obvious from the showing in FIG. 5 that the button may be expeditiously connected and separated by turning the cooperating nut **20** to and from the threaded screw **19**, or vice-versa.

The button with sleeve covered stud may be fabricated economically, and its adaptability to a wide range of application, characterized by capability of expeditious mounting and dismounting, its utility as a single or double button, make possible a vast field of exploitation.

I have employed the button in many applications, and one example of the manifold uses of my button is depicted in FIG. 5, with the two halves shown fastening a decorative pillow cover C in position. When the cover C and/or button requires cleaning, a simple manipulation of the button **6**, 6_1, turning either half in a counter-clockwise direction or both counter-clockwise, is all that is necessary.

I have employed the button in making removable covers for not only decorative pillows, as illustrated in FIG. 5, as an example of one of the manifold uses of the invention, but have made decorative covers for cornices, hassocks, chairbacks, bed headboards, upholstered effect slip covers, lamp shade covers, belts, and other apparel accessories, with the button providing interchangeability with covers of different colors and texture, to blend with the ensemble of the room, or apparel, as well as enabling the facile removal and separation of the button from the cover, chairback, or other object for cleaning of the button and/or cover.

When it is desired to use a half button, as for example in a chairback, I employ the half button with the seated stud **16** and a shorter length shank or threaded screw **19** covered by sleeve **27** and fastened with the screw only. To give the chairbacks an upholstered effect, I may utilize a padding which can be removed for cleaning after it has been inserted with a screw half of the button—numeral **6** of FIGS. 1 and 5, employing a shorter screw **19**.

In describing and claiming my invention as stated before, the term "sleeve" wherever used herein is intended to and does include the term "tubing" which is generally used in the trade to describe the nylon sleeve **27**.

Summarized, the utility of my two-part button is on a broad scale and is useful for making:

covers for decorative pillows,
hassocks,
cornices,
chair backs,
bedboards,
slip covers and other covers.

It also may be employed in making or decorating wearing apparel and such as:

hats,
handbags,

decorative belts, and
other accessories.

The range of uses as described in this application is not intended to be limitative.

As will be readily understood, when using half button **6**, the length of the shank **19** covered by sleeve **27** can be changed to suit the depth of the material in which it is to be seated, and in such cases sleeve **27** would be shortened.

I intend that my two-part button may be fabricated entirely of plastic material except for the covers **7**, with the half button having the stud threaded only at the outer end so that, when threaded into the nut portion, the cover in the latter will not be displaced when the stud is threaded home. This version is not shown in the drawings.

In addition, the plastic version of my button may be formed with a hollow stem having imbedded therein a threaded bolt extending out of the stem for sufficient distance to be threaded into the mating threads of the nut section or half of the button.

I reserve the right to make such changes and modifications as may come within the scope of the appended claims.

I claim:

1. In a two-part button of the class described comprising a substantially identically shaped pair of parts, each part including a base portion comprising:

an apertured casing enclosing a chamber which has an open end, said casing having a portion thereof formed as a peripheral wall, a cover surrounding said casing at the open end thereof and having a peripheral wall fitting over and secured to the peripheral wall of said casing, and

a threaded stud having its head anchored in the casing chamber of one part of the two-part button, the improvement consisting of covering said stud with a vinyl sleeve, except for a part at its end, the threaded portion of the stud extending through the aperture of the casing, and

a nut threaded to mate the threads of the stud, said nut being fastened in the casing chamber of the other part of the two-part button, whereby upon turning the nut on the stud, the end of the vinyl sleeve acts as a stop to prevent displacement of the button cover.

2. In combination with an object to be covered and a decorative cover thereon, a two-part button of the class described, each part of substantially identical shape and comprising:

a centrally disposed, apertured casing enclosing a chamber which has an open end, a disc surrounding said casing at said open end, and having an upstanding peripheral wall, and a cover thereover having a peripheral wall of greater width than the wall of the disc fitted over and secured to said wall of the disc,

a fabric or other material fitted over the cover and wall and having any excess of material confined within said cover,

a threaded screw having its head anchored in the casing chamber of one of the parts, the threaded portion of the screw extending through the aperture of the casing, and

a nut threaded to mate the threads of the screw and anchored in the casing chamber of the other part of the button,

the improvement which comprises covering the threaded portion of the said screw with a sleeve except for a portion at its outer end whereby the screw of the said one part may be inserted through the decorative cover of the object and secured to the other part of the button to hold the said decorative cover on the object, the sleeve protecting the object material from contact with the threads of the screw and also

acting as a stop when the two parts of the button are assembled.

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