Sept. 2, 1952 R. C. SEYFORTH 2,608,712

DRAWER PULL

Filed Nov. 1, 1948 2 SHEETS—SHEET 1

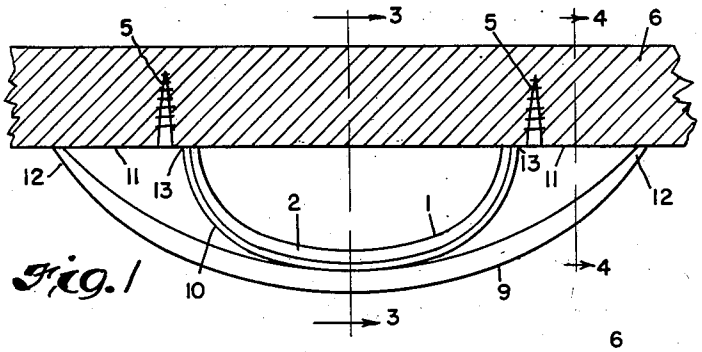


Fig. 1

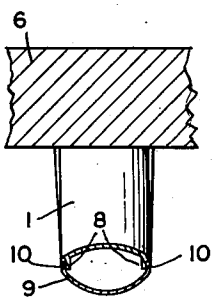


Fig. 3

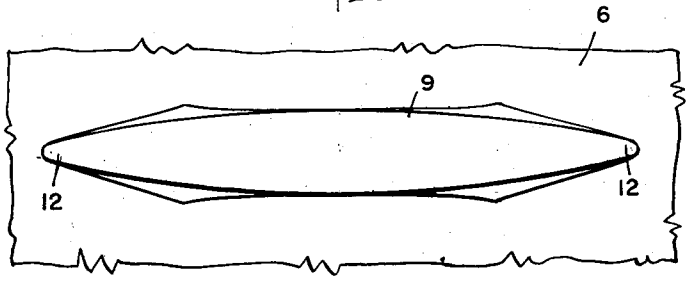


Fig. 2

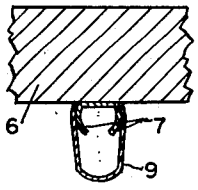


Fig. 4

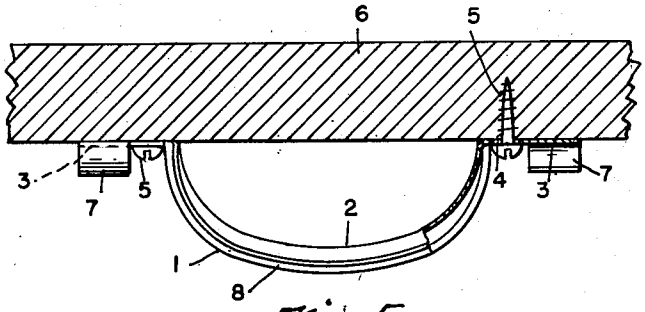


Fig. 5

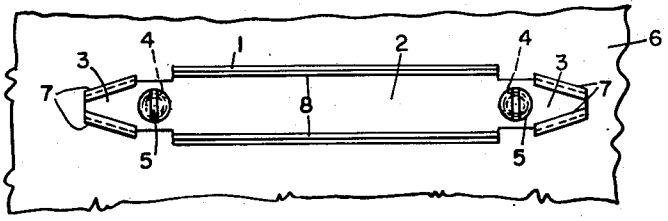


Fig. 6

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DRAWER PULL

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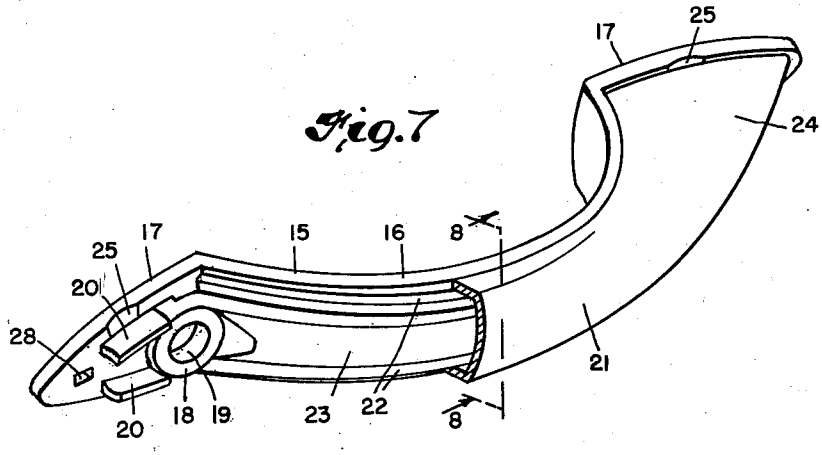


Fig. 7

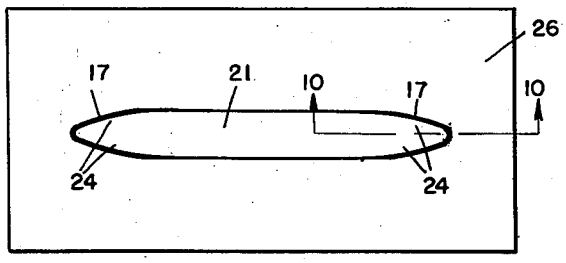


Fig. 9

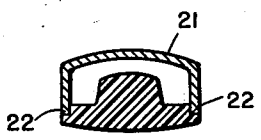


Fig. 8

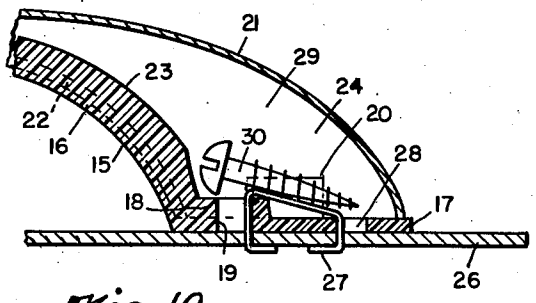


Fig. 10

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UNITED STATES PATENT OFFICE

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DRAWER PULL

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Application November 1, 1948, Serial No. 57,819

5 Claims. (Cl. 16—125)

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The present invention although indicated as relating specifically to drawer pulls, is in a broader sense concerned with improvements in hardware items having utility as the operating handles for drawers, cupboard doors, and the like.

Hardware items of the character referred to usually comprise a unitary member either of a generally flat transverse cross-section bent from strip stock to provide an intermediate longitudinally curved section and longitudinally extending feet at opposite ends, said feed having countersunk holes therethrough, or of a streamlined form optionally made of polished and plated die casting or of interlocked metal stampings provided with blind tapped holes on its rear side, attachment of such members to a drawer or door being respectively effected as by wood screws seated in such countersunk holes and by machine screws threaded into such tapped holes and projecting through drilled holes in the drawer or door. The former has the objection that the screw heads are visible, thus detracting from the appearance thereof and requiring more expensive decoratively finished screws, and the latter has the objection that, even though of ornate, pleasing appearance with the fasteners concealed, the installation thereof requires use of relatively costly machine screws and accurate drilling of holes through the drawer or door and the production thereof entails the added expense of drilling and tapping holes therein. Another objection to both of these forms is that each should be removed when re-finishing the drawer or door.

Accordingly, it is a primary object of this invention to provide a pull of the latter streamlined form concealing the fasteners and attachable to a drawer or door by ordinary wood screws without requiring countersunk or tapped holes and with a screw driver as the only installation tool.

Another object is to provide a two-part pull in which all the strains thereon incident to the opening of the drawer or door to which attached are imposed upon a base member which is firmly secured by inexpensive fasteners to the drawer or door while a detachable cover member of streamlined form conceals the fasteners and is pushed against in the direction of assembly on the base member when closing the drawer or door.

Another object is to provide a pull comprising base and cover members in which one of said members has transversely resilient portions frictionally engaged with the other of said members to enable formation of the cover member with closed pointed ends and to enable detaching

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of the cover member without marring of the finish of the drawer or door or of the front side of the base member.

Another object is to provide a pull as aforesaid having a cover member which is detachable from a base member simply by insertion of a thin bladed tool such as a screw driver or knife between the cover member and the base member, said cover member being otherwise formed so as to preclude inadvertent removal thereof from said base member.

Still another object is to provide a unique display package unit comprising a pull mounted on a display card with the requisite number and size of fasteners contained in a cavity defined between the detachably connected cover and base members of the pull.

Other objects and advantages will become apparent as the following description proceeds.

To the accomplishment of the foregoing and related ends, said invention, then, comprises the features hereinafter fully described and particularly pointed out in the claims, the following description and the annexed drawings setting forth in detail certain illustrative embodiments of the invention, these being indicative, however, of but a few of the various ways in which the principle of the invention may be employed.

In said annexed drawings:

Figs. 1 and 2 are top plan and front elevation views respectively of one embodiment of this invention as installed on the front of a drawer;

Figs. 3 and 4 are transverse cross-section views respectively taken substantially along planes indicated by the lines 3—3 and 4—4, Fig. 1;

Figs. 5 and 6 are top plan (partly in longitudinal cross-section) and front elevation views respectively of the base member employed in the pull illustrated in Figs. 1–4;

Fig. 7 is a perspective view of another embodiment of this invention with a portion of the cover member broken away;

Fig. 8 is a transverse cross-section view taken substantially along the plane indicated by the line 8—8, Fig. 7;

Fig. 9 is a front elevation view of the pull illustrated in Fig. 7 mounted on a display card; and

Fig. 10 is a fragmentary longitudinal cross-section view on an enlarged scale taken substantially along the plane indicated by the line 10—10, Fig. 9, illustrating one manner of attaching the pull to the display card and the cavity formed between the base and cover members for retaining a headed fastener therein.

Referring now to the drawings and first more especially to Figs. 1 through 6, the pull illustrated therein comprises a base member 1 which

as best shown in Figs. 5 and 6 is formed with an intermediate longitudinally curved section 2 and longitudinally extending feet 3 at its opposite ends, each such foot having a hole 4 punched therethrough for loosely receiving the shank of a headed fastener such as a wood screw 5 by means of which said base member may be securely attached in a predetermined adjusted position on a drawer or door portion 6, such adjustment being made possible by the clearance between the holes 4 and the shanks of screws 5. Said feet 3 are each further formed with a pair of longitudinally extending tongues or ribs 7 which, as shown, are preferably of curved transverse cross-section and convergent toward the outer ends of said feet so as to define opposed outer faces of a generally frusto-conical form. The curved intermediate section 2 is formed with longitudinally extending guide ribs 8 which are spaced from the respective edges a distance substantially equal to the thickness of the cover member 9 which is adapted to be snapped over said base member. The intermediate section 2 is strengthened against deformation laterally of the drawer or door 6 by reason of its U-shaped transverse cross-section.

Said cover member 9 is of U-shaped transverse cross-section with sloping sides as best shown in Figs. 3 and 4 and is provided with curved edges 10 conforming with the curvature of the intermediate section 2 and base member 1 and thus abutting the adjoining surfaces of the intermediate curved section 2. Accordingly, the sides of said cover member are flush with the opposed edges of the section 2 and expose the rear side of the latter. Said cover member 9 is also provided with straight edges 11 adjacent each end thereof adapted to engage the flat front face of the drawer or door 6, such straight edges converging and joining the outer face and sides of said cover member 9 in pointed and closed ends 12. Said cover member 9 is preferably drawn from relatively thin sheet metal stock, plated after drawn, and is transversely resilient in the region of the straight edges 11 with the sides thereof of shape complementary with the ribs 7 of said base member whereby said cover member may be snapped thereover and thus yieldably retained in assembled relation on said base member 1. The sloping sides of said cover member preclude inadvertent removal thereof from the base member 1 except by the insertion of a wide and thin tool such as a screw driver or knife blade between one end of the cover member and the face of drawer or door 6.

It is to be noted that attachment and detachment of the cover member 9 onto and from the base member 1 causes the sides adjacent the opposite ends to be resiliently spread apart transversely whereby there is no tendency of the heels 13 or ends 12 to dig into and mar the finish of the drawer or door. It is further to be noted that because the opposite edges and the rear side of the curved intermediate section 2 of said base member 1 are exposed, all strains incident to the opening of the drawer or door 6 are imposed on said base member without any tendency of stripping the cover member 9 therefrom.

In summary, the following is an enumeration of some of the main advantages of the pull illustrated in Figs. 1–6, viz. the pull is of a neat, streamlined form concealing the fasteners; the base member is adjustable; pulling strains are imposed on the base member; installation does not require drilling of holes in door or drawer; unnecessary to provide countersunk or threaded holes in the pull; cover member is readily detachable from base member without marring the finish of the drawer or door; the only tool required for installation is a screw driver; only cover member need be removed when repainting the drawer or door; the closed ends of the cover member strengthen the side walls for obtaining a tight friction gripping thereof on the base member with streamlined form and sloping sides of the cover member precluding inadvertent removal of the cover.

Referring now to the pull illustrated in Figs. 7 and 8, the same comprises a base member 15 preferably of molded plastic material of desired color to match or harmonize with colors of surrounding objects in the room. In this respect it has been found that very unique effects can be obtained by using colorless or colored transparent plastic materials. Said base member 15 includes an intermediate longitudinally curved section 16 and a longitudinally extending foot 17 at each end, each such foot including a boss 18 with a hole 19 therethrough for loosely receiving a headed fastener such as an ordinary wood screw, for example. Extending longitudinally along each foot 17 is a pair of tongues or ribs 20 similar in shape and function to the ribs 7 in the form of pull illustrated in Figs. 1–6 and extending longitudinally along such intermediate section 16 and spaced from the opposite edges thereof a distance equal to the thickness of the cover member 21 are the ribs 22 corresponding with the ribs 8 on the base member 1 illustrated in Figs. 1–6. A central rib 23 along said intermediate section 16 serves to impart strength characteristics to said base member.

Said cover member 21 is of U-shaped transverse cross-section and is formed with pointed and closed ends, the sides 24 being transversely resilient so as to frictionally engage or snap over the ribs 20 on said base member 15. Such sides 24 have their straight edges turned toward one another to snap over said ribs 20 and thus retain said cover member 21 on said base member 15.

In this form of the invention, the feet 17 of said base member 15 are wider and longer than the end portions of the cover member 21 or at least of the same width and length so that, in addition to the opposite edges of the intermediate section 16 being exposed, the opposite edges of the feet are similarly exposed for forming a continuous colorful trim for the cover member 21 which is preferably fabricated from drawn sheet metal and chrome-plated or otherwise decoratively finished.

Obviously, both members 21 and 15 may be made from the same or different colored plastic or like materials if desired, or alternatively, the cover member 21 may be made from plastic material and the base member 15 made from drawn and plated metal. In any case, the pull is of pleasing appearance concealing the fasteners therein and enabling a mounting of the pull with a screw driver as the only installation tool.

To facilitate removal of said cover member 21, the feet 17 are preferably provided with relieved areas 25 forming a space for the insertion of a screw driver or like tool between the cover member and the base member. Such relief 25 may, optionally, be in the form of a notch in the edge of the cover member 21.

In addition to the advantages enumerated above with respect to the pull of Figs. 1–6, the pull

illustrated in Fig. 7 has at least the following further advantages, viz. the provision of a relief for facilitating prying of the cover member from the base member; the provision of a decorative base member forming a neat trim for the streamlined cover member; the provision of feet on the base member underlying the cover member to preclude marring of the drawer or door.

With reference to Figs. 9 and 10, the pull of Fig. 7 is shown mounted on one side of a display card 26, said mounting being effected as by wire staples 27 extending through the holes 19 and 28 in feet 17 and through the card, and having their ends bent against the other side of said card. The holes 28 are preferably rectangular so that the headed fasteners for mounting the pull can only be inserted through the holes 19. Within each cavity 29 defined between the cover member 21 and respective foot 17 is a headed fastener 30, herein a wood screw of required size. Thus there is provided a unitary display package convenient for shipment and display and complete with one pull and the requisite fasteners therefor.

It is to be understood that while in the preceding description, reference has been made to ordinary wood screws as the fasteners, it will be apparent that in the case of metal doors or drawers having drilled or punched holes therethrough said fasteners will preferably be self-tapping screws or the like which do not require nuts or installation tools other than a screw driver.

In the case of the pull illustrated in Fig. 7 it may be desirable to remove the base member 15 when refinishing the drawer or door to which the same is attached inasmuch as said base member constitutes a visible and decorative trim portion of the pull whereas in the pull illustrated in Figs. 1–6 the base member 1 is sufficiently concealed by the cover member 9 as not to make removal of the base member either necessary or desirable.

In connection with the display package unit, it will be evident that the pull illustrated in Figs. 1–6 may similarly be mounted on a display card 26. In such case, because the feet 3 of base member 1 terminate short of the pointed ends 12 of cover member 9, no additional holes 28 are required for mounting said base member by the staples 27 or like fastening means.

Other modes of applying the principle of the invention may be employed, change being made as regards the details described, provided the features stated in any of the following claims, or the equivalent of such, be employed.

I therefore particularly point out and distinctly claim as my invention:

1. A drawer pull comprising a base member provided with a hand grip portion and with a foot laterally offset from said hand grip portion and through which foot a headed fastener is adapted to extend for securing said base member on a drawer front, said base member when thus secured on a drawer front having one side of its hand grip portion spaced from and facing the drawer front whereby the drawer may be opened by exertion of pulling force on such one side, said base member being formed with a rib providing opposed faces which converge toward the drawer front, and a transversely resilient cover member of U-shaped transverse cross-section detachably fitted onto said base member to conceal the fastener therefor and to overlie the other side of said hand grip portion while leaving such one side exposed for exertion of pulling force as aforesaid, said cover member being yieldably snapped over said rib and having opposed faces which are complementary with and yieldably engaged with the opposed faces of said rib, the transverse resilience of said cover member serving to yieldably resist springing apart of the rib-engaging opposed faces of said cover member as would be caused by prying of said cover member in a direction away from said base member and the drawer front.

2. The drawer pull according to claim 1 further characterized in that said hand grip portion extends across the spaced edges of said cover member so that the surfaces of said cover member which face the drawer front are inaccessible for exertion of pulling force of sufficient magnitude incidental to normal manipulation of the drawer to detach said cover member from said base member.

3. A drawer pull comprising a longitudinally extending base member provided with a foot at each end through which a headed fastener is adapted to extend for securing said base member to a drawer front and with an intermediate hand grip portion laterally offset from said feet and having an inside face for exertion of pulling force to open the drawer, each foot being formed with a rib having opposed faces, and a transversely resilient cover member of U-shaped transverse cross-section detachably fitted onto said base member to conceal the fasteners therefor and to overlie the outside face of said hand grip portion while leaving the inside face exposed for exertion of pulling force as aforesaid, said cover member being yieldably snapped over said ribs and having opposed faces adjacent each end which are yieldably interlocked with the opposed faces of the respective ribs, the transverse resilience of said cover member serving to yieldably resist detachment thereof in a direction away from said base member and the drawer front.

4. The drawer pull according to claim 3 further characterized in that said hand grip portion extends across the spaced edges of said cover member so that the surfaces of said cover member which face the drawer front are inaccessible for exertion of puling force of sufficient magnitude incidental to normal manipulation of the drawer to detach said cover member from said base member.

5. The drawer pull according to claim 3 further characterized in that said hand grip portion extends across the spaced edges of said cover member and closely fits therebetween to maintain said cover member in longitudinal alignment with said base member.

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