

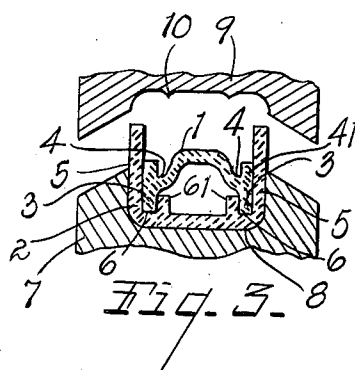
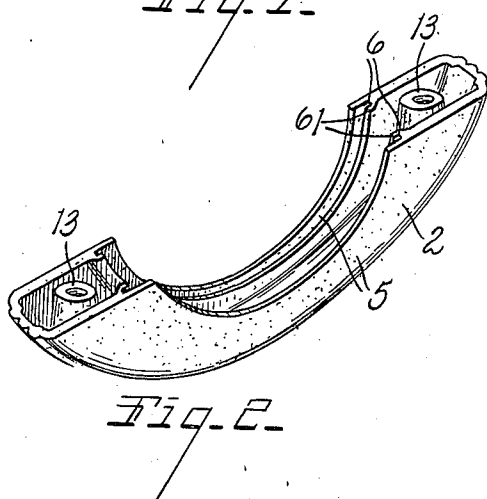
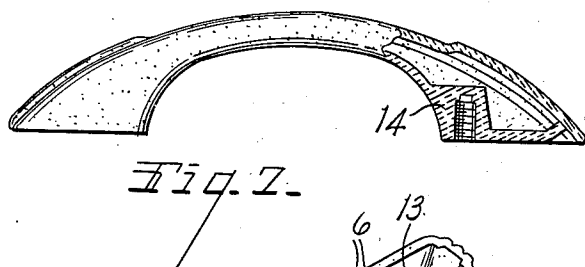
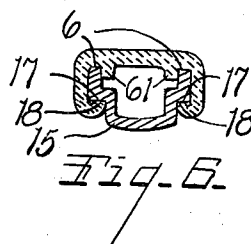
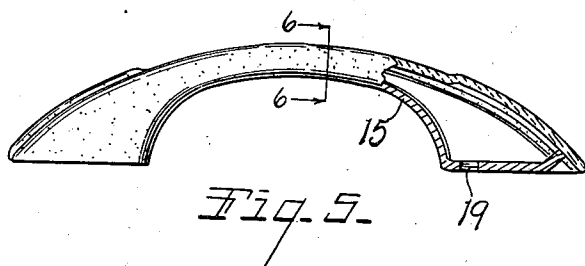
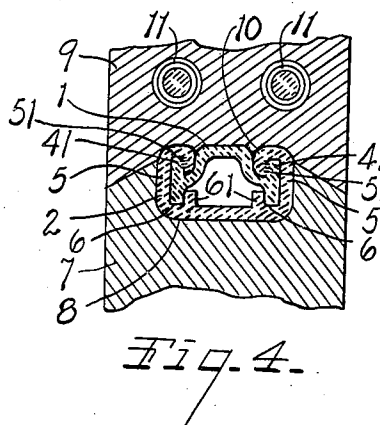
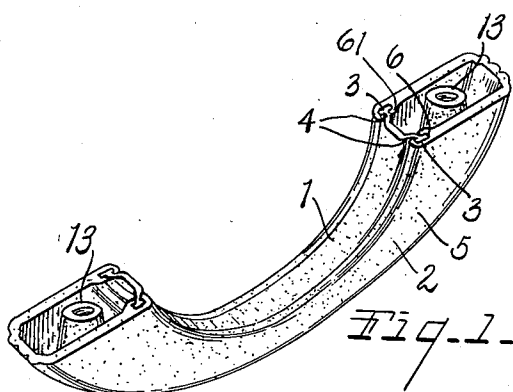
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2,329,767

HANDLE, DRAWER PULL OR THE LIKE

Filed June 28, 1941



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UNITED STATES PATENT OFFICE

2,329,767

HANDLE, DRAWER PULL, OR THE LIKE

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6 Claims. (Cl. 16—111)

This invention relates to improvements in handles, drawer pulls or the like.

The main objects of this invention are:

First, to provide a handle, drawer pull, or the like which is highly ornamental and attractive in appearance and in the preferred embodiment thereof formed entirely of thermoplastic material.

Second, to provide an article of the type described which may be very economically produced and is strong and rigid and durable.

Objects relating to details and economies of the invention will appear from the description to follow. The invention is defined and pointed out in the claims.

A preferred embodiment of the invention is illustrated in the accompanying drawings, in which:

Fig. 1 is an inverted perspective view of a handle or drawer pull embodying my invention.

Fig. 2 is an inverted perspective view of the front member of the handle.

Fig. 3 is a fragmentary section illustrating the handle members in assembled relation and in the process of assembled thereof and in initial relation in a forming die.

Fig. 4 is a cross section of the forming die illustrating the completely assembled unit within the die and the final step in the assembly thereof.

Fig. 5 is a fragmentary side elevation partially in longitudinal section of a modified form or embodiment of my invention.

Fig. 6 is an enlarged transverse section on line 6—6 of Fig. 5.

Fig. 7 is a fragmentary side elevation partially in longitudinal section of a further modified form or embodiment of my invention.

In the embodiment of my invention illustrated in Figs. 1, 2, 3 and 4, my improved handle comprises an inner or back member 1 and an outer or front member 2, both formed of premolded plastic material. I have found "Tenite" to be a desirable thermoplastic material for use in forming these parts but there are other thermoplastic materials that may be used. Both members are of channel section and arranged with the channels facing.

The web portion or rear wall of the inner member 1 is joined to the side wall portions 3 thereof to provide longitudinal grooves 4 and in effect longitudinal ribs 41 constituting the outer wall of the grooves 4. These inner and outer members are of suitable curvilinear outline or other

shape according to the type of handle, drawer pull, or structure desired.

The outer member has internal grooves 6 constituted by the internal ribs 61 disposed in spaced relation to the side walls 5 of the outer member, these grooves receiving the edges of the inner member as clearly shown in the drawings. This provides an effective locating and reinforcing means for the parts and also a supporting means during the assembling operation.

The members in assembling are nested as shown in Fig. 3 and placed within the die member 7 having a suitably conformed recess 8 to support the parts, the sides projecting therefrom. The coacting die member 9 is provided with a recess having curved portions 10 which engage the projecting flanges or sides 5 of the outer member as the die members are closed. The member 9 is provided with heating units 11 designed to engage the sides or flanges 5 and to plasticize the same for turning inwardly or curving inwardly as the die member is closed so that these edges are turned inwardly into the longitudinal grooves 4 of the back member and around the ribs 41 thereof, providing the interlocked part 51. This provides a very secure interlocking of the inner and outer members and a very strong and rigid assembly. The grooves 6 receiving the inner edges or sides 3 of the inner member prevents any shifting or collapsing of the parts during the assembling operation.

The outer member in this embodiment illustrated is provided with post-like bosses 13 adapted to receiving attaching screws or other attaching means.

In the embodiment shown in Fig. 7, the bosses 14 are in the form of enlargements in the wall of the inner member and these are adapted to receive screws or other attaching means.

In the embodiment or modification shown in Figs. 5 and 6, the back member 15 is formed of metal. The side walls or flanges of this inner member have offsets therein providing rearwardly facing shoulders 17, the edges of the front member curled inwardly so that their turned edges 18 abut these shoulders. In this embodiment, the back member is tapped at 19 to receive an attaching screw. The back member when formed of metal may be provided with grooves corresponding to the grooves 4 as that does result in a connection of the parts superior to that resulting when these grooves are omitted, but desirable structures may be had with the parts arranged as shown in Figs. 5 and 6.

With the parts thus formed and arranged, they

are effectively locked together and they coact to provide a very strong and rigid structure without the use of metal parts although for some purposes a metal back member may be desired. However, in that case, only a small area is exposed and does not require careful finish.

I have not, in the accompanying disclosure, attempted to show various ornamental configurations possible or the various shapes and types of handles or drawer pulls and the like which may be produced embodying my invention. I believe it will be understood that a wide variety of shapes and ornamentations can be produced as the parts can be readily molded.

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

1. A handle, drawer pull or the like comprising a back member of channel section conformed to curvilinear outline, said back member having spaced forwardly extending flanges connected by a web portion and longitudinal external ribs adjacent the web portion thereof defining grooves between said web portions and ribs, and a pre-molded front member of thermoplastic material and of channel section conformed to curvilinear outline corresponding to that of said back member and having opposed edges thereof thermally plasticized and molded around said ribs of said back member into said grooves, the flanges of said back member extending forwardly and abuttingly engaging said front member internally of the latter to support the same and maintain said members in proper operative relation.

2. A handle, drawer pull or the like comprising a first member of channel section having spaced flanges and outwardly facing recesses on the surface thereof opposite said flanges, and a pre-molded second member of thermoplastic material and of channel section conformed to embrace the edges of said back member and having opposed edges thereof thermally plasticized and molded into said recesses of said back member, the flanges of the first member abuttingly engaging said second member internally of the latter to maintain said members in proper operative position.

3. A handle, drawer pull or the like comprising a back member of channel section having rearwardly facing groove-like recesses and ribs at the outer sides of said recesses, and a pre-molded front member of thermoplastic material and of channel section conformed to embrace the sides of said back member and having internal longitudinal grooves receiving and laterally restraining the edges of said back member, the edges of said front member being thermally plasticized and curled inwardly around said ribs and so that the edges thereof lie in forwardly facing abutting relation to the bottoms of said grooves.

4. A handle, drawer pull or the like comprising an elongated inner member having external grooves and having spaced parallel flanges, and a pre-molded outer member of channel section having internal longitudinal grooves receiving and laterally restraining the edges of said flanges, the walls of the outer member embracing said flanges and the edges thereof being conformed to engage the said grooves.

5. A handle, drawer pull or the like comprising a back member of thermoplastic material of channel cross section conformed to curvilinear outline and having longitudinal recesses, and a pre-molded front member of channel section conformed to curvilinear outline corresponding to that of the back member and having internal surfaces with which the edges of the back member are in seating engagement to hold the front and the back members in spaced relation, the opposed edges of the front member being thermally plasticized and molded into said recesses of said back member.

6. A handle, drawer pull or the like comprising an inner member having external recesses, and a hollow pre-molded outer member of thermoplastic material conformed to embrace said inner member and having internal surfaces with which the edges of the inner member are in laterally restraining engagement, the edges of the outer member being thermally plasticized and conformed into fitting retaining engagement with said recesses.

GERALD V. JAKEWAY.