Jan. 3, 1939. H. H. RAYMOND 2,142,953

HANDLE

Filed Aug. 12, 1937

Fig. 1

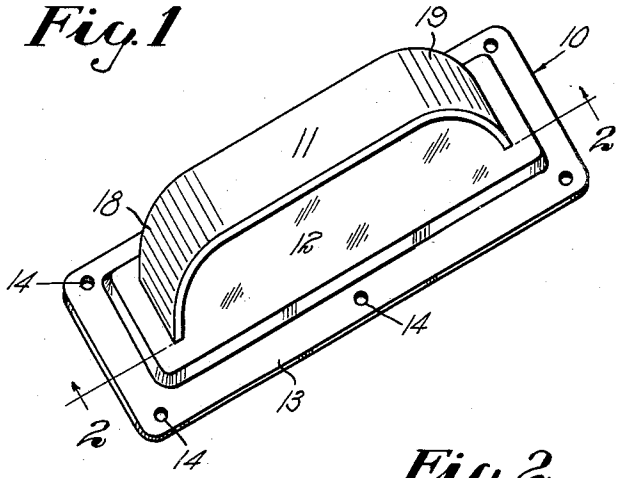


Fig. 2

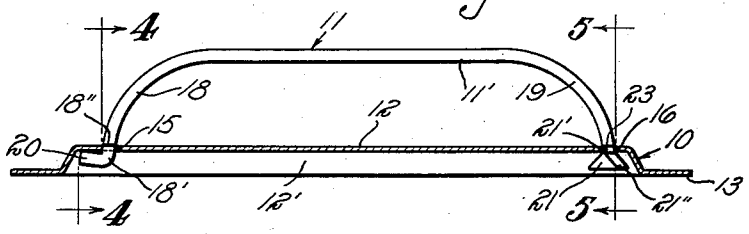


Fig. 3

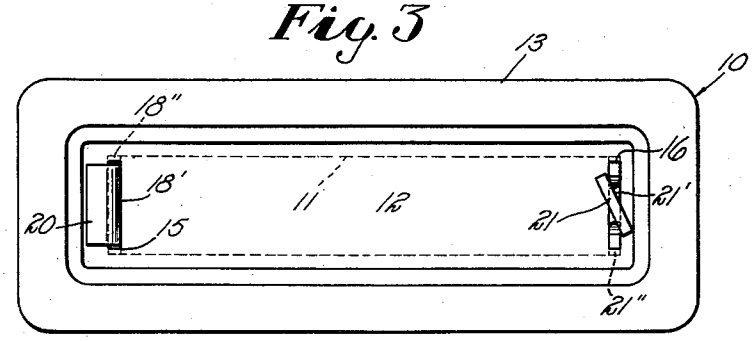


Fig. 4

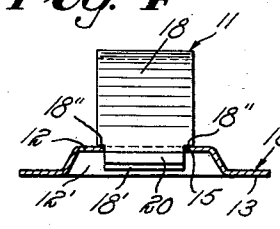


Fig. 5

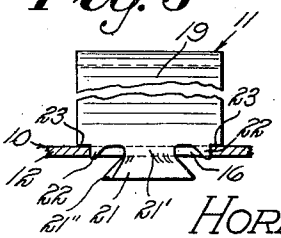
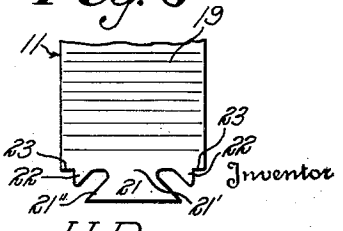


Fig. 6



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UNITED STATES PATENT OFFICE

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HANDLE

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Application August 12, 1937, Serial No. 158,641

2 Claims. (Cl. 16—110)

This invention relates to handles for doors, drawers, removable panels, and the like, and has for its principal aim the provision of an improved handle of the character described, which is rigid in construction, economical of manufacture, neat in appearance, and easily mounted in position.

It is a further object of my invention to provide a simple type of handle composed of preformed interlocked sheet metal parts.

Other objects will be in part obvious and in part pointed out more in detail hereinafter.

The invention accordingly consists in the features of construction, combination of elements, and arrangement of parts which will be exemplified in the construction hereafter set forth and the scope of the application of which will be indicated in the appended claims.

In the drawing:

Figure 1 is a perspective view of my invention;

Fig. 2 is a longitudinal section through my handle taken substantially along the lines 2—2 of Fig. 1;

Fig. 3 is a bottom view of my handle;

Fig. 4 is a section taken along the line 4—4 of Fig. 2;

Fig. 5 is a section taken along the line 5—5 of Fig. 2; and

Fig. 6 is an end view of the bail portion of the handle taken substantially along line 5—5 and before the parts are assembled.

In accordance with my invention, I have provided a handle generally composed of a sheet metal hand grip member or bail 11 bent to form a convenient handle and terminating at its opposite ends in outwardly projecting tongues arranged to extend through and interlock with spaced slotted portions of a door, drawer, or other suitable closure member. My bail may also be secured in an identical manner to a suitable support such as base plate 10, thus providing a convenient handle unit which may be removably fastened in position as by bolts or screws.

In the accompanying illustrations, the bail is shown associated with supporting member 10 such as a base plate, and it is not deemed necessary to illustrate the direct association of the bail in interlocked relation with the face of a door or drawer as it would be secured in position in an identical manner. When employing a base plate as illustrated, I preferably provide a plate with a longitudinally extending substantially centrally disposed offset portion 12 bounded by a peripheral flange 13 which may be rigidly secured to a door, drawer, or other closure as by suitable fastening devices such as screws passing through holes 14. The offset portion near its ends has transversely extending slots 15 and 16 therethrough and which are of lesser length than the width of the bail. It will be understood, of course, that in the event the base plate 10 is not used the door, drawer, or other closure member to which the bail is directly secured will be provided with slots corresponding in size and position to the slots 15 and 16 shown in the drawing, and these slots will receive the tongue portions at the ends of the bail in the identical manner as hereinafter described with reference to support member 10.

The bail has an intermediate hand gripping portion 11' which is spaced from its supporting member 10 by curved end portions 18 and 19 respectively overlying slots 15 and 16. The curved portion 18 terminates in a substantially centrally disposed outwardly extending tongue 18' of such width as to freely pass through slot 15 and laterally position the bail. The bail is further provided at either side of tongue 18' with shoulders 18'' abutting with the front of the support member 10, as shown in Fig. 4. The outer end of tongue 18', which is bent over substantially at right angles as at 20, forms a hooked portion locked through the slot against the under side of the support member to maintain shoulders 18'' in firm abutting engagement with the support member.

The curved portion 19 is also provided with an outwardly extending end slidably received within slot 16 for locating and rigidly interlocking the bail to the supporting member 10 after the parts have been assembled. To accomplish this, the curved portion 19 terminates in a dove-tail shaped tongue 21 and a pair of downwardly extending lugs 22 respectively disposed to either side thereof. Lugs 22 are so positioned as to slidably engage within the ends of slot 16 for transversely locating the end of the bail, and the curved portion 19 terminates in shoulders 23 adjacent said lugs for abutting engagement with the plate in the same manner as shoulders 18''. The downwardly extending dove-tailed portion 21, which is located in spaced relation between lugs 22, is connected to the curved portion 19 by a relatively narrow throat 21' and has side edges 21'' divergently extending to the outer end of said tongue.

When the bail is initially made, it is shaped from sheet metal and bent to form with tongue 18' bent to a hooked contour, as shown, and with tongue 21 substantially tangent to the end of curved portion 19 (Fig. 6). During assembly,

tongue 18' is first inserted through slot 16 to the position shown in Figs. 2, 3, and 4, after which tongue 21 and lugs 22 are slidably entered through slot 16 with shoulders 23 in abutting engagement with the support member 10. Tongue 21 is next twisted, as shown in Figs. 3 and 5, to bring the opposed divergent edges 21'' into wedging engagement with the bottom edges of slot 16 in the recess 12', thus rigidly locking the members of the handle together into a substantially integral unit. It will, of course, be understood that when a base plate is used the tongues extending through the plate and into the recessed portion therebeneath do not extend as far as the plane of flange 13 so as to interfere with the mounting on the handle of the door or other closure.

It is not intended to limit the present invention to the exact showing since it will be evident that the bail 11 could be rigidly mounted on any member having slotted portions and similar dovetailed tongues could be formed on both ends of the bail and inserted and locked in tightly wedged position in the manner above described.

As many changes could be made in the above construction and many apparently widely different embodiments of this invention could be made without departing from the scope thereof, it is intended that all matter contained in the above description or shown in the accompanying drawing shall be interpreted as illustrative and not in a limiting sense.

It is also to be understood that the language used in the following claims is intended to cover all of the generic and specific features of the invention herein described and all statements of the scope of the invention which, as a matter of language, might be said to fall therebetween.

I claim as my invention:

1. In a handle adapted to be mounted on a supporting member having a pair of spaced slots, a bail provided with curved ends terminating in tongues respectively received in said slots, and one of said tongues having divergently extending walls twisted into wedging locked engagement with the sides of the slot in which it is received.

2. A handle comprising an elongated sheet metal plate having transversely extending slots near its ends, and a bail bent over at its ends into abutting overlying relation with said slots and respectively terminating at its ends in tongues received in said slots, one of said tongues being wedge shaped and having a narrow neck portion which divergently extends to its outer end, lugs in spaced relation to said wedge-shaped portion for entering the ends of the slot and transversely locating the bail, and said wedge-shaped tongue being twisted into wedging engagement with the sides of the slot to rigidly lock the bail in position.

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