Nov. 10, 1925. 1,560,946

E. G. SIMPSON

DOOR PULL HANDLE

Filed Jan. 15, 1925

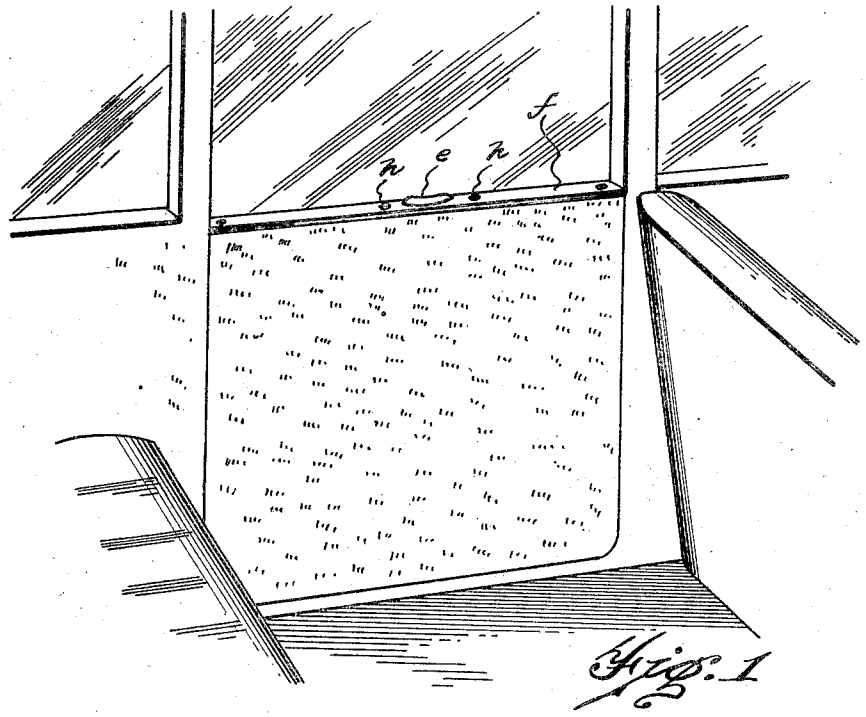
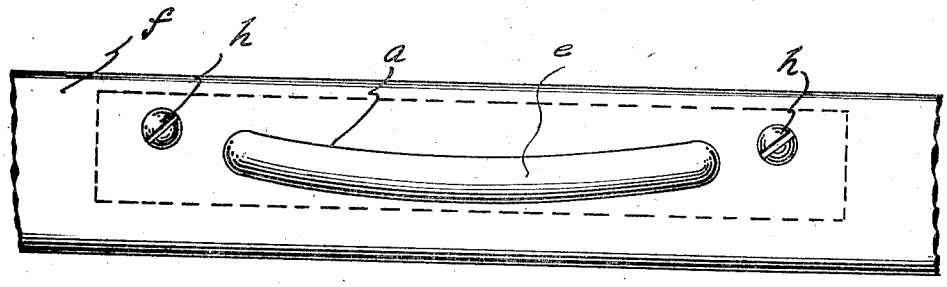


Fig. 1



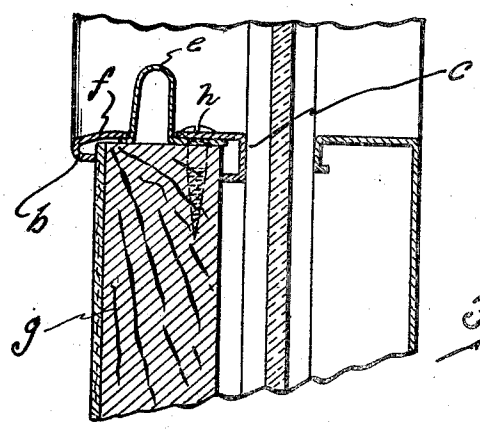


Fig. 3

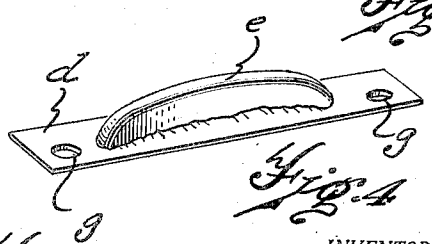


Fig. 4

Fig. 2

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UNITED STATES PATENT OFFICE.

EMORY GLENN SIMPSON, OF HIGHLAND PARK, MICHIGAN, ASSIGNOR TO TERNSTEDT MANUFACTURING COMPANY, OF DETROIT, MICHIGAN, A CORPORATION OF MICHIGAN.

DOOR PULL HANDLE.

Application filed January 15, 1925. Serial No. 2,595.

To all whom it may concern:

Be it known that I, EMORY GLENN SIMPSON, a citizen of the United States, residing at Highland Park, in the county of Wayne and State of Michigan, have invented certain new and useful Improvements in Door Pull Handles, of which the following is a specification.

This invention relates to a combined garnish moulding and "pull-to". It is the object of the present invention to provide hardware of this kind which is not open to the objection that is inherent in the single piece stamping. This will be better explained later in the specification.

In the drawings:

Fig. 1 is a fragmentary view of the inside of the closed body, showing the garnish moulding with the "pull-to" in place.

Fig. 2 is a fragmentary plan view of the same.

Fig. 3 is a vertical fragmentary section through the same and adjoining parts.

Fig. 4 is a perspective view of the drawn metal pull-to.

It is customary in recent body construction to provide pull-to handles for the doors. These are usually in the form of cords or handles hung from the side of the door and harmonizing with the trimming and other hardware and that may be grasped to pull the door closed when desired.

It is the object of the present invention to afford a much cheaper form of pull-to which is mounted on and cooperates with the garnish moulding of the door. To this end the garnish moulding is provided with a segmental slot *a* which is punched out. The garnish moulding itself is preferably a metal strip provided with the turned-over beaded edges *b* and *c*. This is a rolled metal strip which is rolled in continuous lengths on the usual channel or tube forming machines that involve rollers or rollers and dies. The pull-to itself is a separate stamping provided with the flat base *d* and an upwardly projecting rib or boss *e* which is slightly segmental when viewed in plan, and which tilts slightly toward the outside from bottom to top when viewed in cross section. The garnish moulding *f* seats on the top of the lock board *g*, which fits in between the beads *b* and *e*. The pull-to is inserted under the garnish moulding with the rib or boss projecting out of the segmental opening *a* in the garnish moulding. This causes the screw holes *g* of the pull-to fixture to register with the screw holes of the garnish moulding. Hence, the screws *h* may be passed through these registering holes and turned into the lock board, securely holding both the pull-to fixture and the garnish moulding directly to the lock board.

This type of construction has several important advantages, both functionally and from a manufacturing standpoint, over a similar arrangement struck out of a single piece of metal. Where the pull-to rib is made as an integral part of the garnish moulding, the whole thing has to be made as a stamping. This makes the garnish moulding very much more expensive than where it is rolled at high rates of speed in continuous lengths on a rolling machine. Furthermore, the drawing operation is a relatively deep draw, and consequently the metal of the garnish moulding around the rib is decidedly puckered and attenuated, thereby marring the appearance of the garnish moulding. This puckering of the metal is shown in a somewhat exaggerated from in Fig. 4, where the puckering appears on the separate pull-to fixture. Here it does no harm at all, as this part of the fixture is concealed under the garnish moulding in my improved structure.

Another functional feature of a construction such as I have shown and claimed is that the rib can be made to lean slightly toward the outside so as to afford a better grip for the fingers in operating the pull-to. This leaning may be secured where the pull-to fixture is a separate member for the reason that the punch may be easily withdrawn from the die on a slant where there are no other forming operations; but where the punch has to form also the beads on the garnish moulding, it is necessary to have a straight draft for the portion of the punch that forms the rib and hence the rib must be vertical.

What I claim is:

1. A piece of automomible door hardware, comprising a garnish moulding provided with a slot, and a pull-to fixture comprising a separate member having a base secured to the under side of the garnish moulding and having a pull-to rib passing through the slot in the garnish moulding.

2. A piece of automobile door hardware,

comprising a metal garnish moulding provided with a slot, and a separate stamping having a base portion concealed under the garnish moulding, and a hollow rib passing up through the slot.

3. A piece of automobile door hardware, comprising a garnish moulding provided with a slot and screw holes, and a separate pull-to fixture in the form of a stamping having a base provided with screw holes and having in its center an embossed hollow rib passing through the slot in the garnish moulding, and thereby affording a pull-to member and also causing the screw holes in the base of the fixture to register with the screw holes in the garnish moulding.

4. A piece of automobile door hardware, comprising a rolled metal garnish moulding which is punched through the top to form screw holes, and a segmental hole, and a separate pull-to fixture comprising a separate stamping whose base underlies the garnish moulding, and has screw holes punched therein registering with the screw holes in the garnish moulding, and which is provided with an embossed hollow rib passing through the segmental slot to afford a pull-to fixture.

5. A piece of automobile door hardware, comprising a garnish moulding having a slot, and a separate metal stamping having a rib bossed therein and secured under the moulding with the rib passing through the slot and leaning somewhat toward the outside when the fixture is applied to a door.

In testimony whereof I have affixed my signature.

EMORY GLENN SIMPSON.