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H. G. SPECHT

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CLIP FOR DRAWER PULLS

Filed July 9, 1927

Fig. 1.

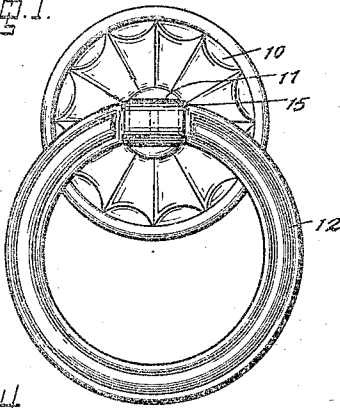


Fig. 2.

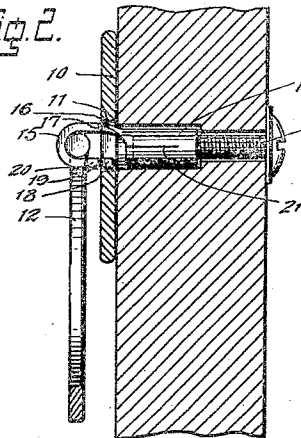


Fig. 4.

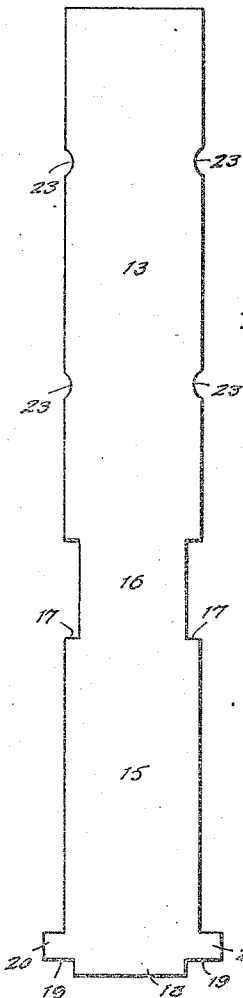


Fig. 3.

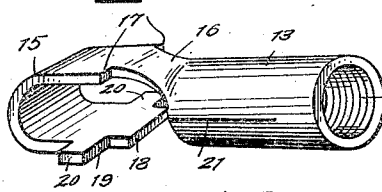


Fig. 9.

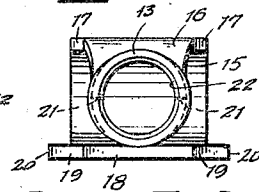


Fig. 5.

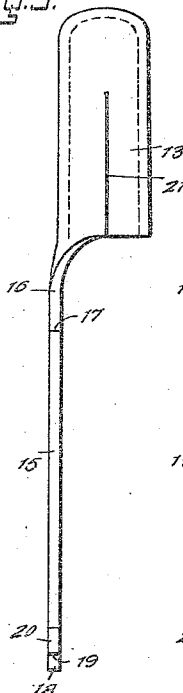


Fig. 6.

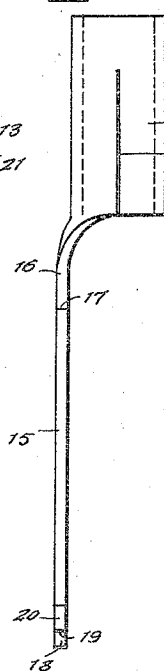


Fig. 7.

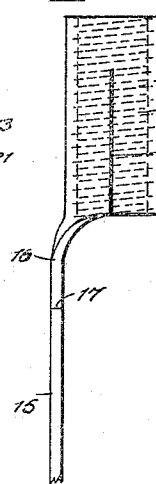
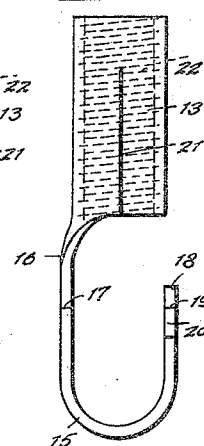


Fig. 8.



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UNITED STATES PATENT OFFICE

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CLIP FOR DRAWER PULLS

Application filed July 9, 1927. Serial No. 204,498.

The present invention relates to improvements in clips for drawer pulls, and has for an object to provide a one piece sheet metal clip having an interiorly threaded shank portion and a bail loop portion. Heretofore one piece sheet metal clips have been so formed that the shank had a seam extending its full length, the metal being bent into cylindrical form about the axis of the shank, so that, in small diameters, it was practically impossible to produce a true cylindrical shape, and there was a tendency for the seam to open up and for the threads to become disaligned. It is an object of the present invention, therefore, to provide a one piece sheet metal clip in which the shank is so formed as to provide a true cylindrical shape and in which there is included an unbroken cylindrical portion adapted to maintain the cylindrical shape and prevent any possibility of the shank opening up. It is a further object to provide a structure which may be formed from relatively thin sheet metal and in which the shank portion will be substantially reinforced in the process of shaping and forming the same.

With the above and other objects in view an embodiment of the invention is shown in the accompanying drawings, and this embodiment will be hereinafter more fully described with reference thereto, and the invention will be finally pointed out in the claim.

In the drawings:

Fig. 1 is a front elevation of a conventional type of drawer pull provided with a one piece sheet metal clip, according to the present embodiment of the invention.

Fig. 2 is a vertical sectional view thereof, showing the same attached to a drawer panel.

Fig. 3 is an enlarged perspective view of the clip.

Fig. 4 is a plan view of the flat sheet metal blank from which the clip is formed.

Figs. 5, 6, 7 and 8 are side elevations show-

ing the several steps in the production of the clip from the blank as shown in Fig. 4.

Fig. 9 is an end view of the clip, showing its relatively thickened cross sectional shape.

Referring to the drawings, the drawer pull comprises a face plate 10 having a rectangular hole 11 therein, through which the clip is adapted to be inserted, and a bail 12 adapted to be pivotally supported by the clip.

The clip generally comprises a cylindrical interiorly threaded shank 13 adapted to be engaged by a screw 14 and a U-shaped bail supporting loop portion 15 connected to the shank portion by a neck portion 16, the upper portion of the loop being provided adjacent the neck portion 16 with shoulders 17 at each side adapted for abutment against the front face of the face plate 10, and provided at its lower portion with an inwardly projecting extension 18 and shoulders 19 at each side thereof adapted to engage the front face of the face plate, the extension 18 and the neck 16 adapted to engage within the hole 11 of the face plate. The loop is also provided at its lower portion adjacent the shoulders 19 with projecting lugs 20 at each side, against which the bail is adapted to hang so that it is maintained in a vertical position and is prevented from coming into contact with the face plate.

The shank, according to the present invention, is provided at each side with diametrically opposed slits or seams 21 extending from the inner extremity thereof to a point spaced from the outer extremity, the portion between these slits and the outer extremity being relatively thickened and providing a continuous unbroken circumferential portion. The thickening of this portion is greatest in line with the seams, and gradually decreases toward the sides where the metal remains substantially unthickened. The interior of the shank is threaded, as at 22, for its entire length.

The clip is formed from a flat sheet metal

blank, as shown in Fig. 4, the shank forming portion of this blank being provided in each of its longitudinal edges with pairs of spaced notches 23, the longitudinal edges of the shank forming portion of the blank extending from these notches to the extremities of this portion adapted to form the seams 21 of the shank, and the portion of the blank between these notches adapted to form the continuous unbroken cylindrical portion of the shank. This portion is adapted to be bent and drawn into shape in a die, the notches being provided for the purpose of permitting the drawn metal to flow without ridging, so that in the completed shank the notches are closed by the metal flowed into them. Fig. 5 illustrates the manner in which the blank is first shaped in a suitable die to produce the shank, this die bending the sides into cylindrical form to bring the seam forming edges together and drawing the intermediate portion into cup shape, the flow of the metal during this drawing operation being such that the excess moves into and fills the notches 23 so that there is no ridging, and the circumferential portion is relatively thickened in line with the seams, as shown in Fig. 9, the punch of the die being so shaped as to maintain a uniform cylindrical bore for threading. The partial drawing and partial bending of the blank insures a uniformity in length of the shank, the extremities of the shank forming portion of the blank being brought together and determining the length of the shank, whereas if the blank were drawn along its entire length, there would be a variation in the length of the shank corresponding to variations in the thickness or structure of the metal, and a further trimming operation would then be necessary. By confining the drawing operation to one end of the blank, however, this portion may be relatively thickened and provides a continuous unbroken band giving strength at that point where it is most required, and is of sufficient length to maintain the cylindrical shape of the shank and prevent distortion or opening up under the action of the attaching screw.

The next step in the process consists in cutting off the dome end of the blank, as shown in Fig. 6, to produce a tube. The shank is next interiorly threaded, as shown in Fig. 7, and finally the loop forming portion of the blank is bent into U-shape, as shown in Fig. 8. I have illustrated and described a preferred and satisfactory embodiment of my invention, but it will be obvious that changes may be made therein, within the spirit and scope thereof, as defined in the appended claim.

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

A one piece sheet metal clip for drawer pulls and the like, comprising a threaded

shank including an end portion continuously unbroken circumferentially and a portion having a pair of diametrically opposed longitudinal seams extending from said unbroken portion to the other end of said shank, the portions of said shank between said seams being unbroken, and a bail loop integral with and extending from one of said unbroken portions between said seams.

Signed at Bridgeport, in the county of Fairfield and State of Connecticut, this 1st day of July, 1927.

HARRY G. SPECHT.