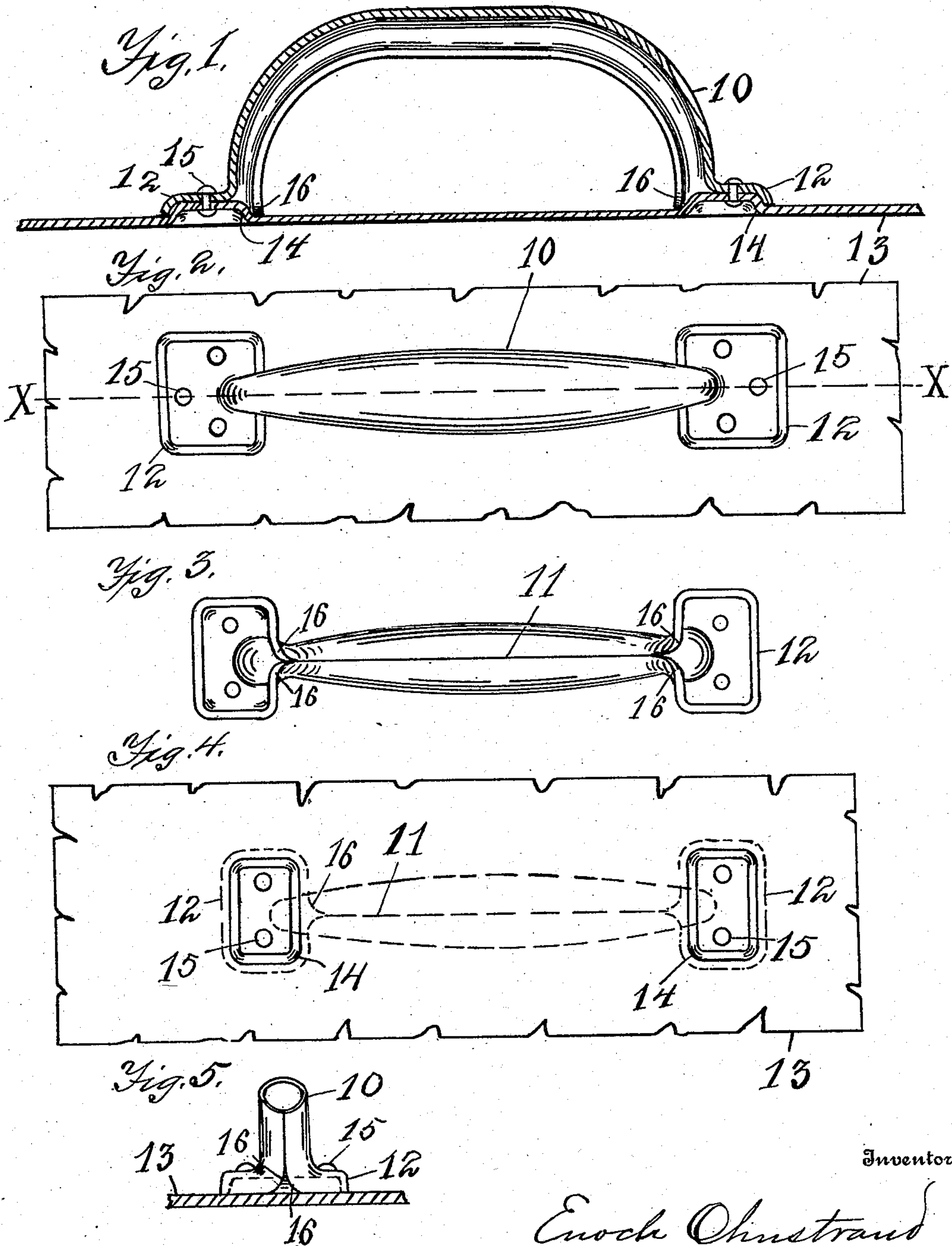


E. OHNSTRAND.  
SHEET METAL HANDLE.

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936,802.

Patented Oct. 12, 1909.



Witnesses

J. G. Ellsworth.  
C. O. Hultgren

Inventor

Enoch Ohnstrand  
By S. Arthur Baldwin,

Attorney



# UNITED STATES PATENT OFFICE.

ENOCH OHNSTRAND, OF JAMESTOWN, NEW YORK, ASSIGNOR TO JAMESTOWN METAL FURNITURE COMPANY, OF JAMESTOWN, NEW YORK.

## SHEET-METAL HANDLE.

936,802.

Specification of Letters Patent.

Patented Oct. 12, 1909.

Application filed April 24, 1908, Serial No. 428,916. Renewed September 7, 1909. Serial No. 516,605.

*To all whom it may concern:*

Be it known that I, ENOCH OHNSTRAND, a citizen of the United States, residing at Jamestown, county of Chautauqua, and State of New York, have invented new and useful Improvements in Sheet-Metal Handles, of which the following, taken in connection with the accompanying drawing, is a full, clear, and exact description.

The invention relates to sheet metal handles for drawers, files, doors and the like; and the object of my invention is to provide a sheet metal handle of great strength and rigidity, and to so attach it to the sheet metal drawer or file front that it cannot work loose.

The use of sheet metal handles or drawer pulls have been thus far unsuccessful because of their liability to work loose on account of the great strains they sustain in operating heavy sheet metal drawers or doors, and also on account of the liability of the sheet metal to spring or give. The construction and attachment of my drawer pull or handle is such that it is rendered absolutely rigid and cannot be worked loose if the rivets are properly drawn down.

In the drawings, Figure 1 is a lengthwise sectional view of the drawer pull at line X X in Fig. 2. Fig. 2 is a plan view of the drawer pull as attached to a portion of a sheet metal front. Fig. 3 is a plan view of the under side of an unattached drawer pull. Fig. 4 is a plan view of the inner side of the sheet metal front showing the struck-out portions of the sheet metal, the drawer pull showing in dotted line. Fig. 5 is an elevation of the inner side of one of the ends of the handle or drawer pull attached to a sheet metal front.

Similar numerals refer to corresponding parts in the several views.

The numeral 10 indicates my improved handle which is formed from a single sheet metal blank having the bent up portion or grip bent in the form of a continuous tube, the inner edges 11 of the sheet metal abutting throughout the length of said tubular grip, as shown in Fig. 3.

The handle is struck from sufficiently heavy sheet metal to give it great rigidity

and strength and the abutting edges of the sheet metal on the inner edges 11 form a perfectly smooth handle. It may be made in any desired form as to the general curves of the grip portion of the handle without departing from my invention. It is preferred, however, that these curves be gradual and of only sufficient breadth to give a pleasing grip for the hand very much as shown.

The ends 12 of the handle are struck up in the form of bosses hollow on their under sides, the outer edges of which abut upon the sheet metal front 13. The sheet metal front 13 is formed with struck-out portions 14 which exactly fit within hollow bosses 12. The abutting edges 11 of the sheet metal are continued as shown at 16, joining onto the outer edges of the bosses 12 as shown in Figs. 3 and 5. This connection 16 is exceedingly important as it braces the entire gripping portion of the handle and also stiffens the bosses 12, rendering the construction exceedingly strong and rigid.

The handle 10 is attached to the sheet metal front by suitable rivets 15. Two rivets are usually sufficient to hold each end. There should always be two rivets for each end since one rivet to an end is liable to allow of the twisting of the handle to one side or the other. On large handles more than two rivets may well be used; the purpose being to hold the struck up ends 12 of the handles and the struck-out portions 14 of the sheet metal front firmly together.

The handles may be finished in imitation of different metals such as brass, copper, or bronze or to correspond to the finish of the sheet metal front, according as desired.

I claim as new:—

1. A sheet metal handle having a tubular grip, the attaching ends of said grip formed in hollow bosses, struck-out portions on the sheet metal front to fit said hollow bosses, and rivets to connect said bosses and struck-out portions, substantially as and for the purpose specified.

2. A sheet metal handle composed of the raised grip portion 10, the edges 11 of the sheet metal abutting throughout the length of the inner portion of said grip, the end portions 12 of said handle having a hollow

on their under sides, the bracing connections  
16 of said abutting edges and end portions,  
struck-out portions 14 on the sheet metal  
front 13 to fit said hollowed ends, and rivets  
5 15 to connect said hollow ends and struck-up  
portions, substantially as and for the pur-  
pose specified.

In testimony whereof I have signed my  
name to this specification in the presence of  
two subscribing witnesses.

ENOCH OHNSTRAND.

Witnesses:

I. A. ELLSWORTH,  
A. W. KETTLE.