

(No Model.)

J. R. McLAUGHLIN.
HANDLE FOR SHEET METAL VESSELS.

No. 605,004.

Patented May 31, 1898.

Fig. 1.

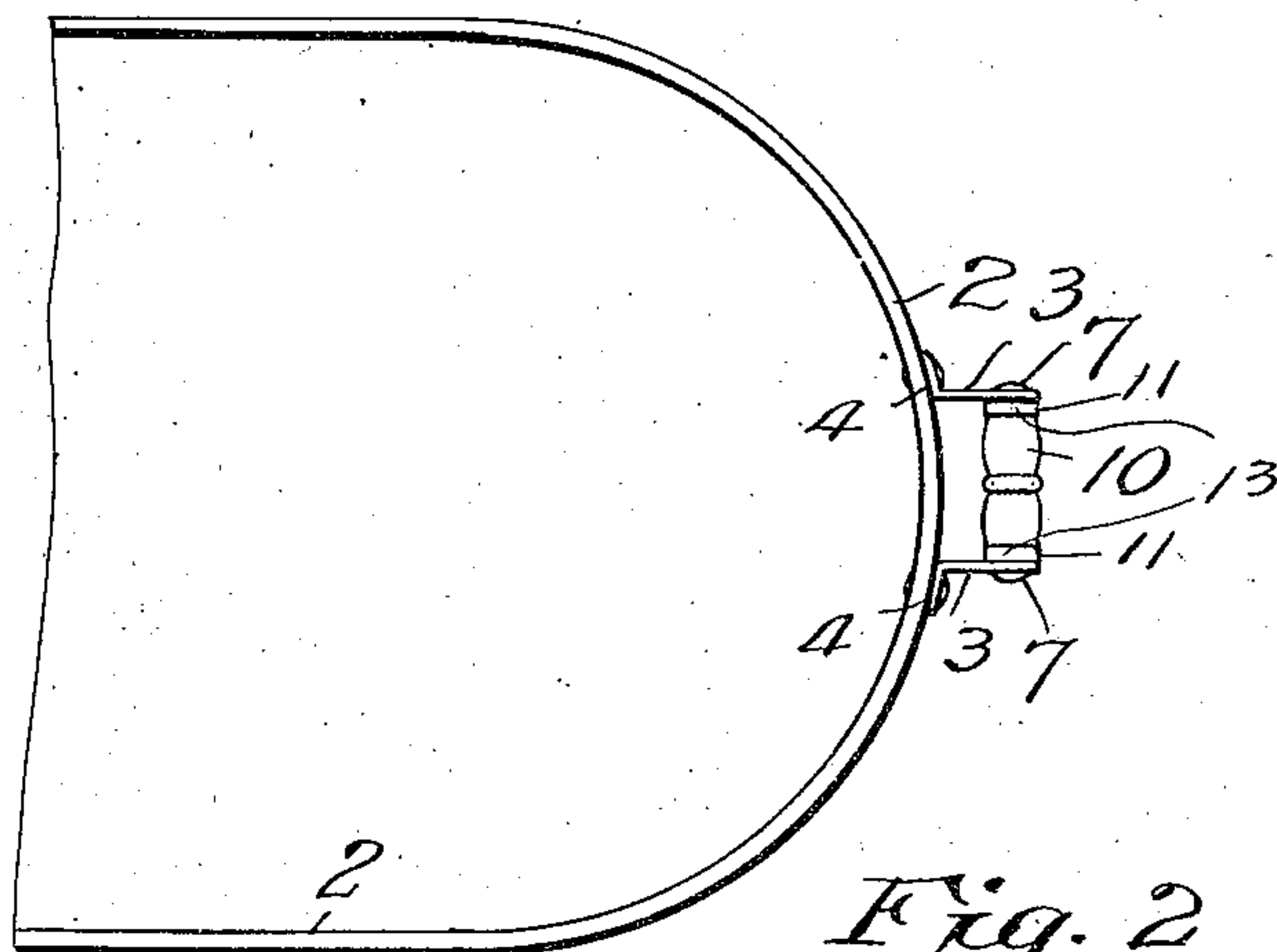


Fig. 2.

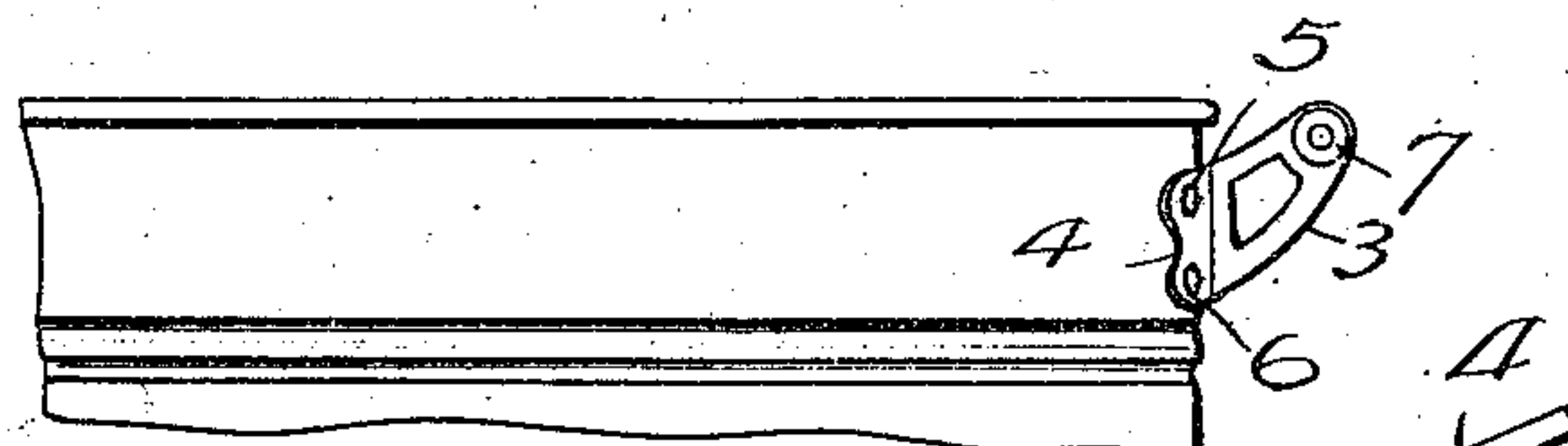


Fig. 3.

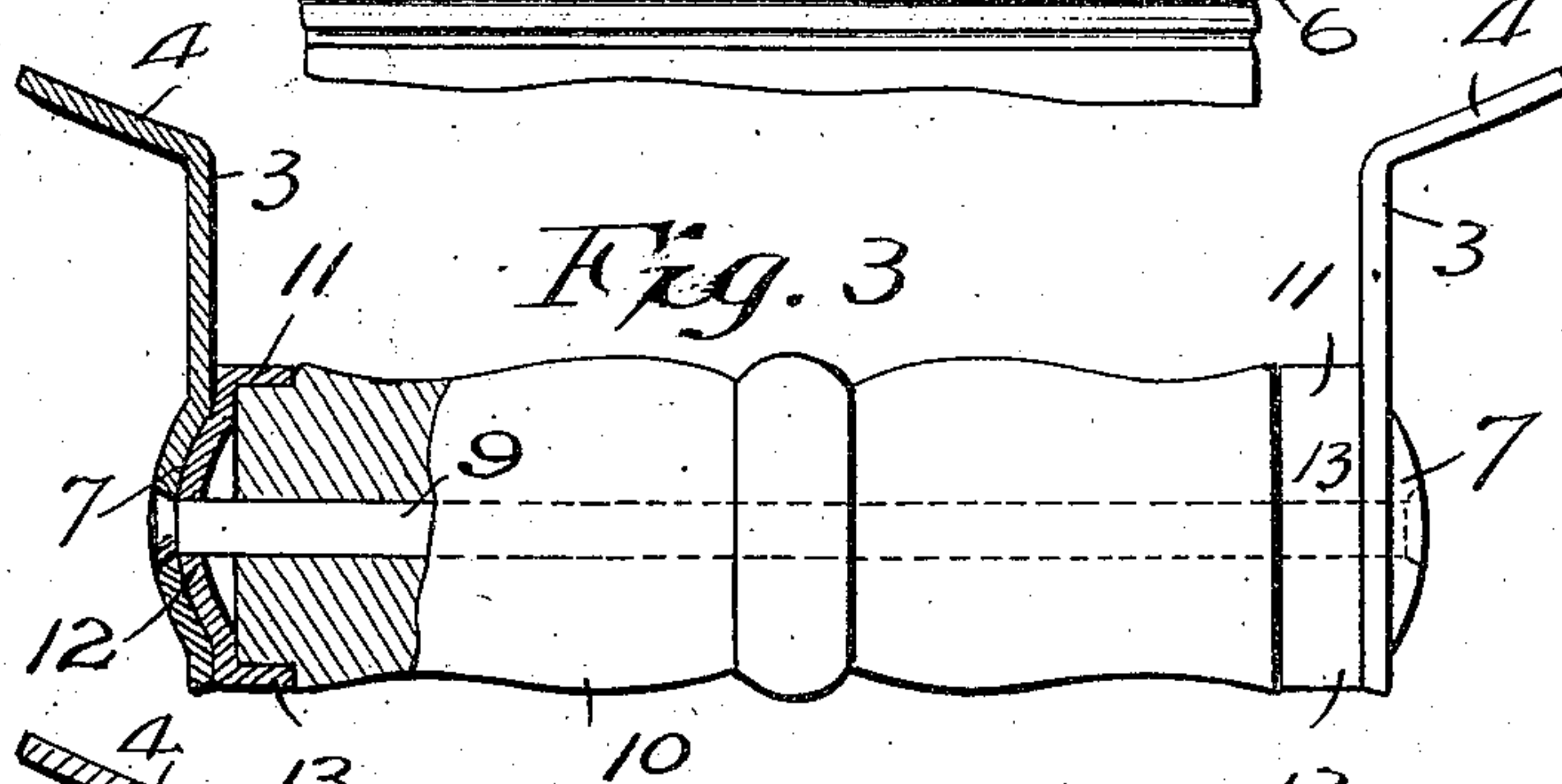


Fig. 5.

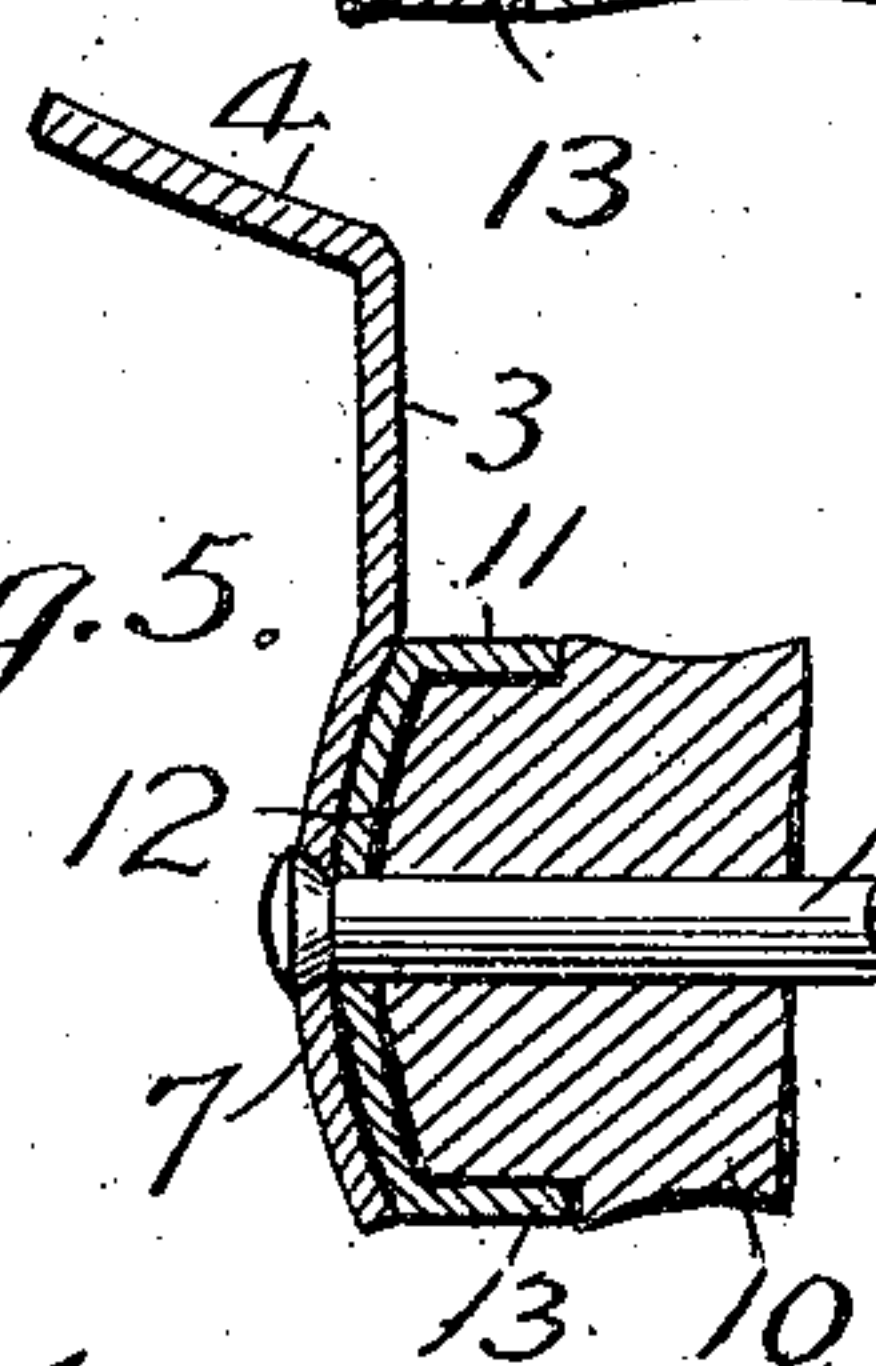


Fig. 4.

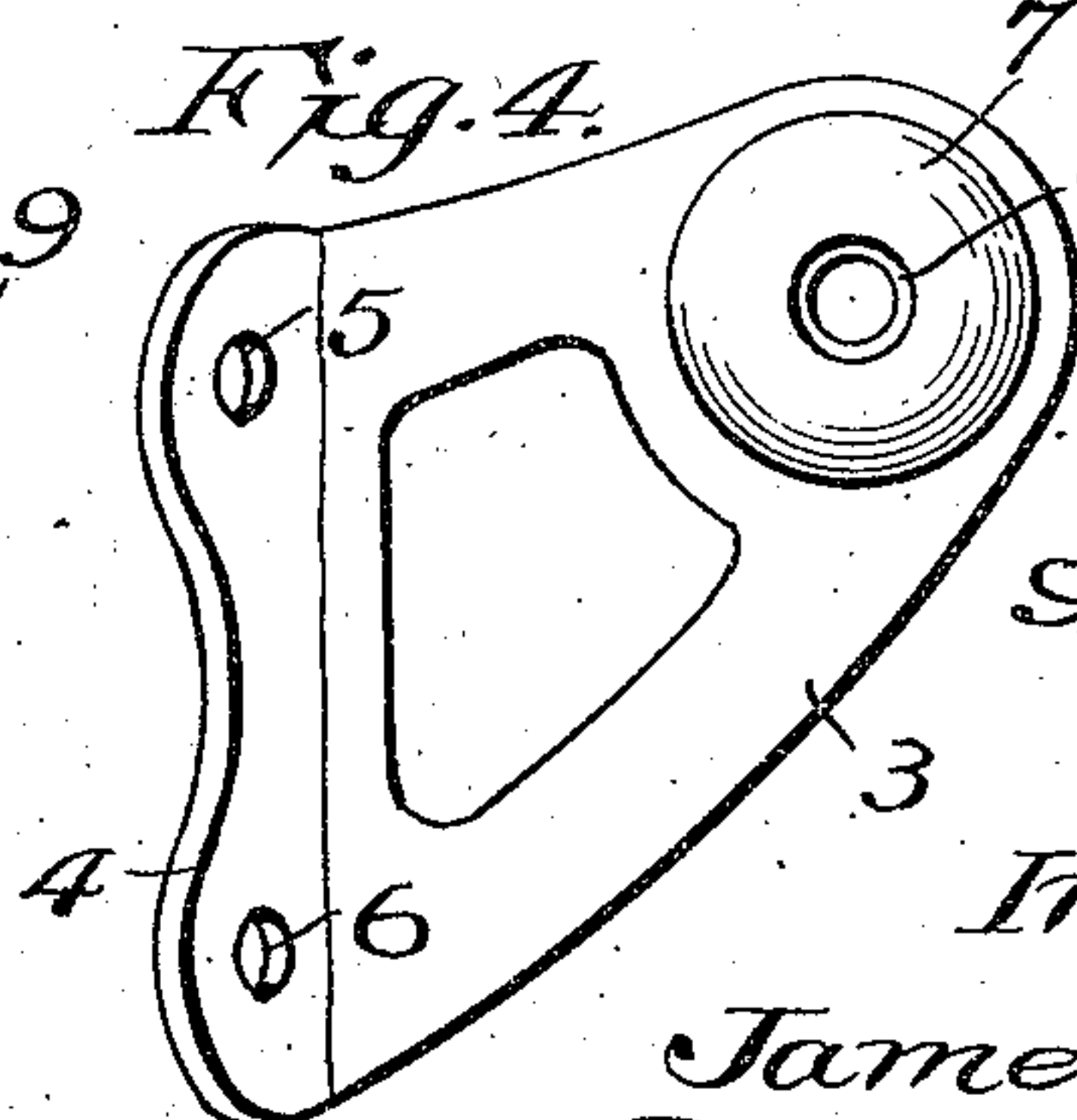
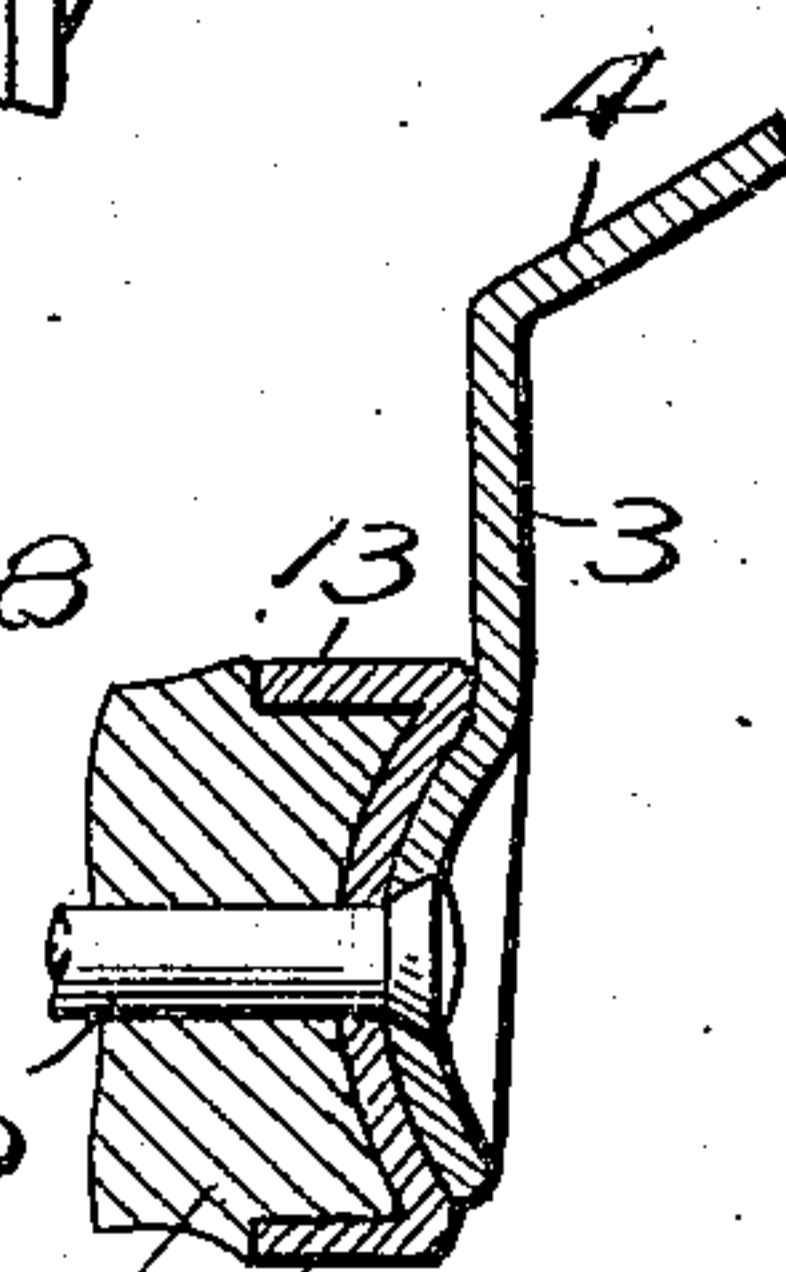


Fig. 6.



Witnesses;
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UNITED STATES PATENT OFFICE.

JAMES R. McLAUGHLIN, OF CLIFTON SPRINGS, NEW YORK, ASSIGNOR OF ONE-HALF TO THOMAS W. MARTIN, OF SAME PLACE.

HANDLE FOR SHEET-METAL VESSELS.

SPECIFICATION forming part of Letters Patent No. 605,004, dated May 31, 1898.

Application filed September 7, 1897. Serial No. 650,742. (No model.)

To all whom it may concern:

Be it known that I, JAMES R. McLAUGHLIN, of Clifton Springs, Ontario county, New York, have invented certain new and useful Improvements in Handles for Sheet-Metal Vessels, of which the following is a specification.

My invention relates to handles for articles of tinware, and particularly for washboilers; and the object of the invention is to provide a very strong durable handhold part so firmly attached to the supporting arms or brackets as to be practically integral therewith, which will never, therefore, work loose, and may be subjected to the most severe strain without danger of breaking.

A still further object is to provide rigid supporting-arms for the handhold part to prevent the hand of the person using the device from being burned by coming in contact with the hot surface of the vessel.

To this end the invention consists in supporting arms or brackets, a handhold part, means for securing the same to said brackets or arms, the caps or ferrules on said handhold part, each provided with a surface to nest with a corresponding surface on the other; and, further, the invention consists in various constructions and combinations, all as hereinafter described, and particularly pointed out in the claims.

In the accompanying drawings, forming part of this specification, Figure 1 is a plan view of one end of a boiler with my invention attached thereto. Fig. 2 is a side elevation of the same. Fig. 3 is a plan view of the handle with the handhold part broken away. Fig. 4 is a view of one of the supporting-arms. Fig. 5 is a detail sectional view of one end of the handhold part and the supporting-bracket. Fig. 6 is a modification in the manner of nesting the caps and the ends of the supporting-brackets.

In the drawings, 2 represents one end of a washboiler of the ordinary construction, and 3 3 are the supporting arms or brackets, stamped, preferably, from sheet-steel and provided with lips or flanges 4 4, having openings 5 5 and 6 6 to receive rivets, by which the brackets are secured to the surface of the boiler. As shown in Figs. 1 and 2, the supporting arms or brackets are perfectly rigid

and project such a distance from the boiler that the handhold part supported at the outer end of the brackets cannot come in contact with the boiler-surface and the hand of the operator be burned, even though the boiler be lifted when full of water and clothing.

At the outer end of the supporting arms or brackets I provide the convex surfaces 7 7, provided with openings 8 8, having countersunk edges against which bear the heads of the rod or bolt 9, which passes through the center of the handhold part 10 and through the openings 8 8. On each end of the handhold part 10 I provide caps or ferrules 11 11, having convex surfaces 12 12 and flanges 13 13, which encircle the ends of the handhold part 10. The convex surfaces on the ferrules nest with those on the brackets or arms, as shown in Figs. 3 and 5, and when the heads are formed on the ends of the rod 9 the outer ends of the brackets will be drawn together and the convex surfaces 7 7 on the brackets pressed closely against the corresponding surfaces 12 12 on the caps or ferrules 11 11, and the handhold part thereby firmly secured between the supporting-arms. Pressure upon the ferrules 11 11 will also serve to force the flanges 13 13 into position over the ends of the part 10, and the pressure of the supporting arms or brackets upon the broad convex surfaces of the caps or ferrules will hold the same rigidly in position and absolutely prevent them or the handhold part from working loose. By providing countersunk edges for the openings in the convex surfaces of the supporting-arms I am able to form heads on the rod 9 and smooth off the same flush with the surfaces 7 7.

I prefer to have the handhold part 10 square at each end, as shown in Fig. 3; but I may make each end convex, as shown in Fig. 5, to fit the inner surface of the cap or ferrule 11 11, and instead of providing a swelled or convex surface upon the supporting-arms and ferrules I may reverse the construction, as shown in Fig. 6, in which case the parts are provided with nesting concave surfaces and held firmly together in substantially the same manner as heretofore described. If desired, the nesting concave surfaces of the ferrules and supporting-arms may be soldered together

to prevent any possible movement of the handhold part 10.

While I have in the foregoing description referred to the device only in connection with washboilers, I do not limit myself in the use of the article to that class of tinware, for it is obvious that the handle can be readily attached to other articles of tinware where it is desirable or advantageous to use a handle with rigid supporting-arms or where it would be difficult to handle the vessel when full of hot water or heavy clothing without burning the hand, if the handle were connected to the vessel by the ordinary pivoted arm or wire. It is obvious, too, that if absolute solidity of the handhold part is the only object to be attained the inner ends of the supporting-arms may be pivotally secured to the vessels, while the outer ends may be provided with the surfaces arranged to nest with corresponding surfaces provided on the handhold part, as heretofore specifically described.

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

1. The combination, with a sheet-metal ves-

sel, of arms or brackets secured thereto, a handhold part arranged between said arms or brackets at or near the outer ends thereof, caps or ferrules upon each end of said handhold part, means securing said handhold part to said arms and said caps having convex surfaces at the ends of said handhold part to nest with similar surfaces on said arms or brackets, substantially as described.

2. The combination, with a sheet-metal vessel, of supporting arms or brackets secured thereto, a handhold part arranged between said arms, caps or ferrules 11 provided upon the opposite ends of said handhold part and having convex surfaces 12, said arms having curved surfaces 7 to nest with said surfaces 12 and a rod 9 extending through said handhold part and the convex surfaces of said caps and said arms whereby the parts are rigidly secured together, substantially as described.

In testimony whereof I have hereunto set my hand this 9th day of August, A. D. 1897.

JAMES R. MCLAUGHLIN.

In presence of—

RICHARD PAUL,

A. C. PAUL.