

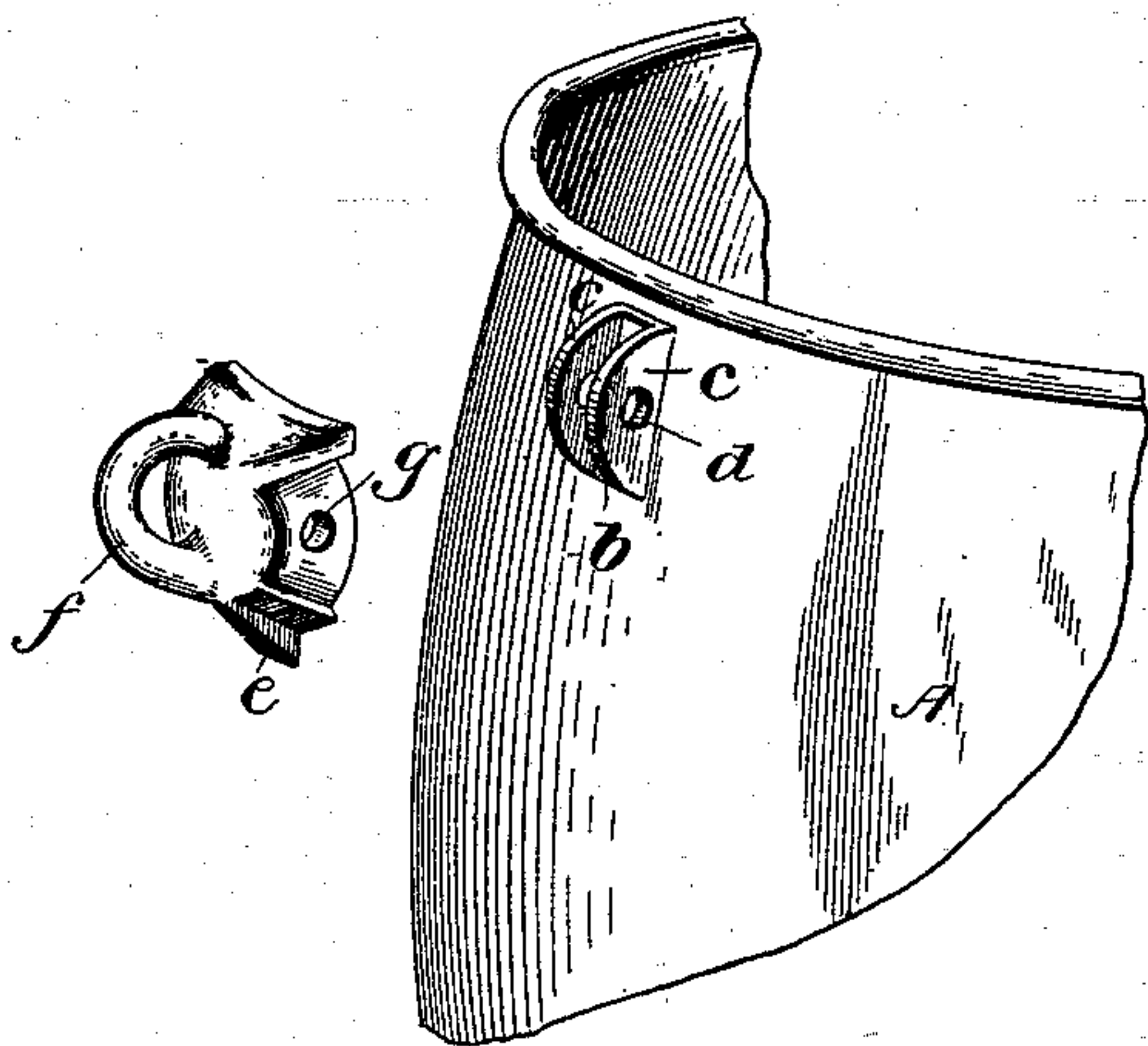
(No Model.)

H. S. REYNOLDS.  
EAR FOR SHEET METAL VESSELS.

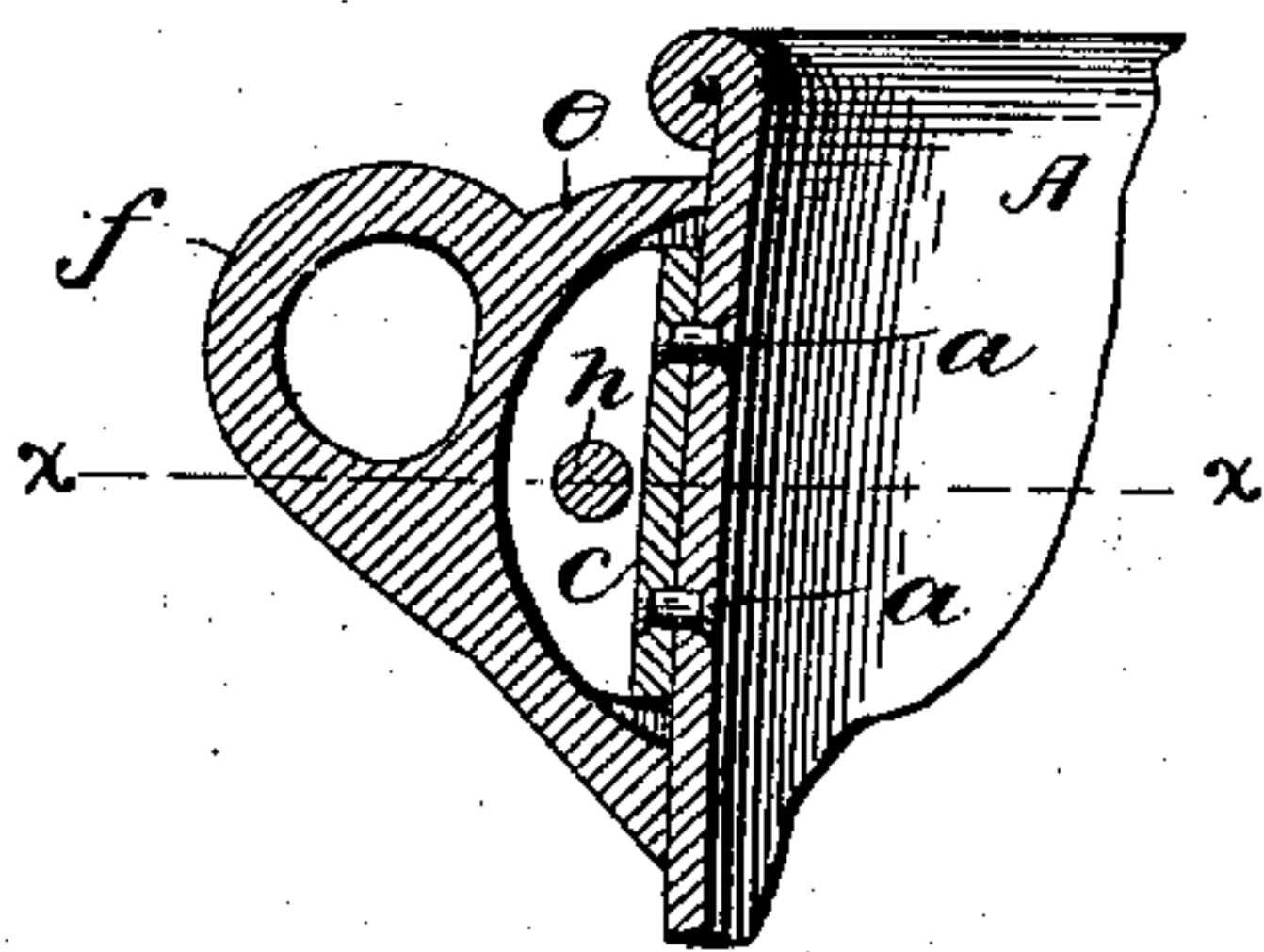
No. 503,681.

Patented Aug. 22, 1893.

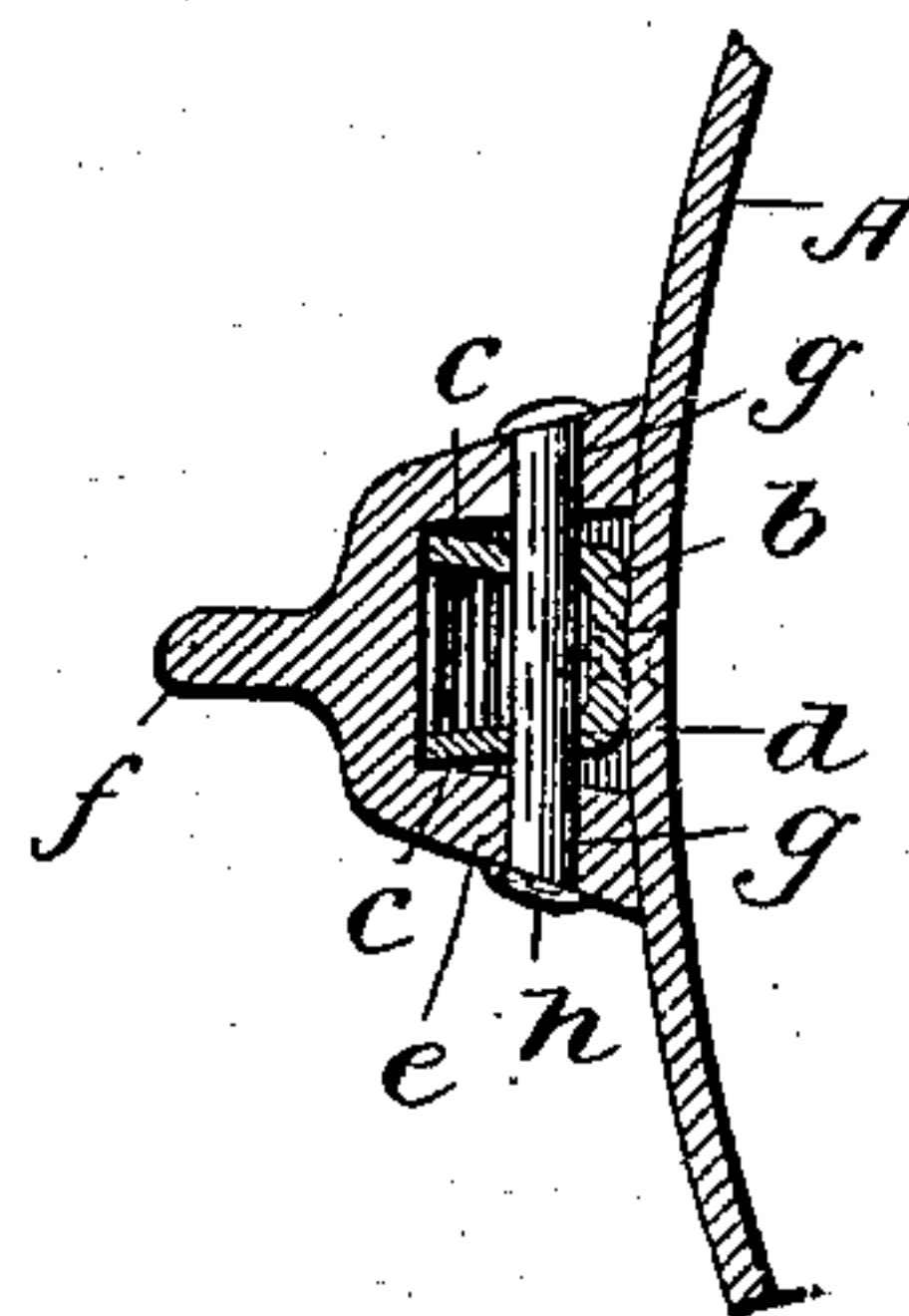
*Fig. 1.*



*Fig. 2.*



*Fig. 3.*



WITNESSES:

Edwin L. Bradford  
Matthew Canavan

INVENTOR

Henry S. Reynolds  
BY Ernest A. Orbe  
ATTORNEY.

# UNITED STATES PATENT OFFICE.

HENRY S. REYNOLDS, OF BROOKLYN, NEW YORK.

## EAR FOR SHEET-METAL VESSELS.

SPECIFICATION forming part of Letters Patent No. 503,681, dated August 22, 1893.

Application filed February 10, 1891. Renewed January 23, 1893. Serial No. 459,446. (No model.)

*To all whom it may concern:*

Be it known that I, HENRY S. REYNOLDS, a citizen of the United States, and a resident of Brooklyn, in the county of Kings and State of New York, have invented certain new and useful Improvements in Ears for Sheet-Metal Vessels, of which the following is a specification.

This invention relates to certain improvements in ears for sheet metal vessels, and is especially designed for that class of goods known as enameled ware. Heretofore in the construction of this class of goods, the ears have necessarily been applied to the vessel prior to the enameling operation, since their subsequent attachment would result in the breaking of the enamel surface, and, being usually of a metal different from and thicker than that composing the vessel body, it is not practicable to coat them smoothly and evenly with the enamel, and moreover, the enamel at these points is thicker and therefore liable to "chip," "flake" or break away from the iron body.

It is the object of my invention to obviate these disadvantages, and to produce an ear which will be neat and attractive in appearance, and which may be readily and easily attached to the vessel subsequent to the enameling operation, and without injury to the enamel surface.

To this end my invention consists of a projection on the vessel body provided with a central aperture, and an ear adapted to surround such projection and be secured thereto by means of a pin or rivet passing through corresponding apertures in the ear, and the said projections, as hereinafter more particularly described and pointed out in the claim.

In the accompanying drawings, in the several figures of which like parts are similarly designated, Figure 1, is a fragmentary view of a vessel showing the projection I prefer to employ, and the ear ready to be united thereto. Fig. 2, is a vertical section through an ear applied according to my invention; and Fig. 3, is a horizontal section on the line  $x-x$ , Fig. 2.

$A$  represents the vessel, and  $b$  the projec-

tion or "saddle" which is attached to the said vessel by one or more rivets  $n$ , prior to the enameling operation. This "saddle" may be of malleable iron or other suitable material and is of a form and size to fit snugly the recess in the base of the ear. This recess in the present instance is one having parallel sides and a concave back. The saddle, therefore, has parallel sides and a convex back, as shown. The saddle is of  $U$  cross section, and when fitted in the base its legs bear against the base, one on each side of the longitudinal plane of the eye or ring portion of the ear. In this way I obtain a separate and independent bearing for the ear on each side of the point where the strain comes when the vessel is handled by the bail which is attached to the ears; and am enabled to prevent the injurious effects which might otherwise ensue therefrom—particularly when the strain is torsional in its nature or is exerted in a lateral direction. The legs of the saddle are perforated at  $d$ , for the passage of the rivet by which the ear is attached to the saddle. The ear which may also be of malleable iron or other suitable material, consists of the base  $e$ , recessed to fit snugly over the saddle  $b$ , and the ring-shaped portion, or eye  $f$ , to which the swinging handle of the vessel is attached. This ear is also provided with the horizontal perforations  $g$ , through its base, which are adapted to correspond with the perforations  $d$ , in the saddle and admit of the insertion of a rivet or pin  $h$ , thereby permanently securing said ear to the vessel body.

It is of course obvious that the base of the ear should be curved to correspond and fit snugly to the vessel body to present a perfect and finished jointure, and the said ear may be nickel-plated, or otherwise ornamented, if desired, to enhance its appearance.

What I claim as my invention, and desire to secure by Letters Patent, is—

An ear having a recessed base and an eye or ring portion in combination with a vessel body, and a saddle secured thereto, of substantially  $U$  cross section, fitting the recess in the base and taking a bearing with its legs



against the base on each side of the longitudinal plane of the eye, the base and saddle being secured together by a rivet or pin passing through the base and the legs of the saddle, substantially as and for the purposes  
5 hereinbefore set forth.

Signed at New York, in the county of New

York and State of New York, this 2d day of February, A. D. 1891.

HENRY S. REYNOLDS.

Witnesses:

E. R. KNOWLES,  
FREDERIC CARRAGAN.