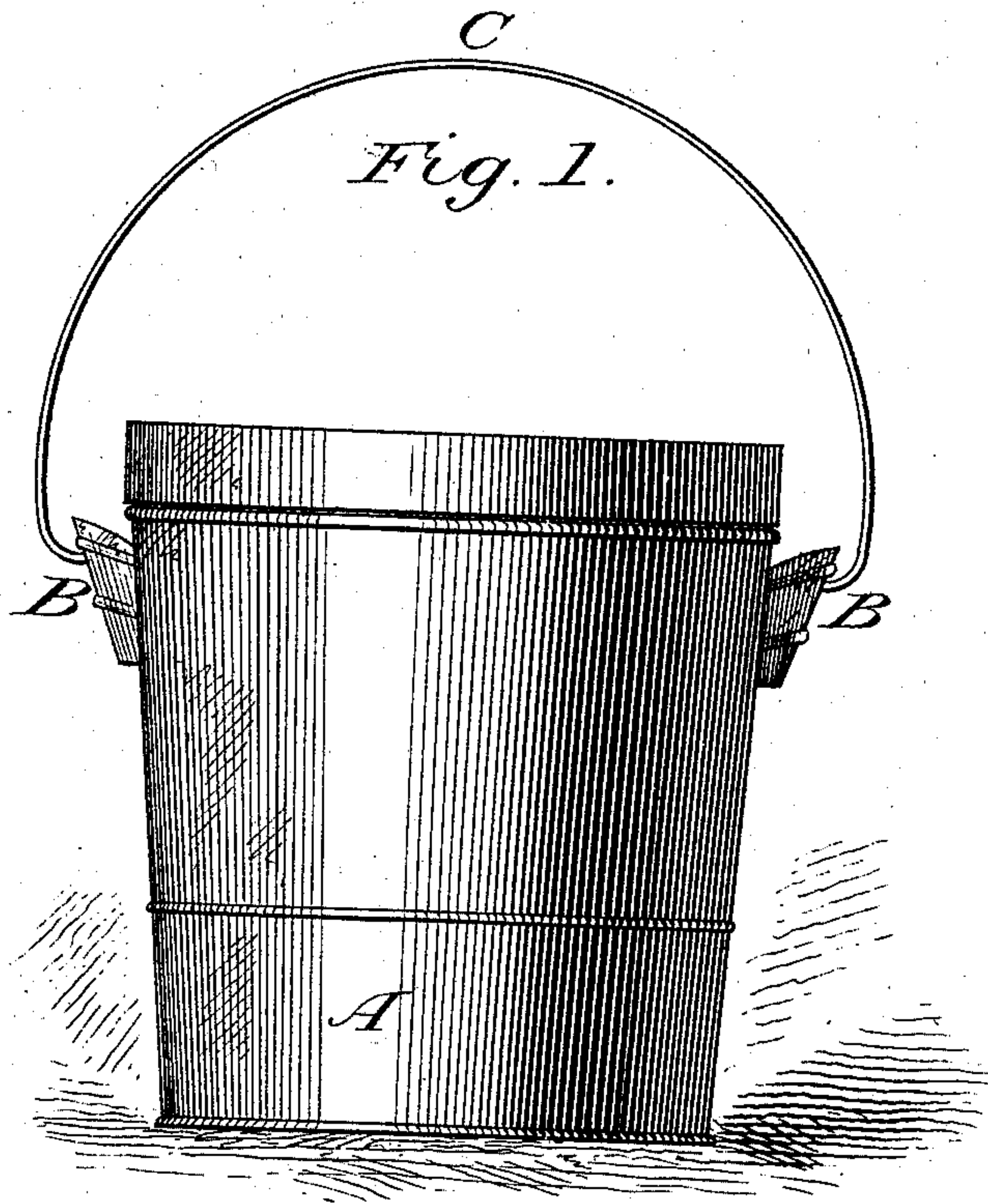


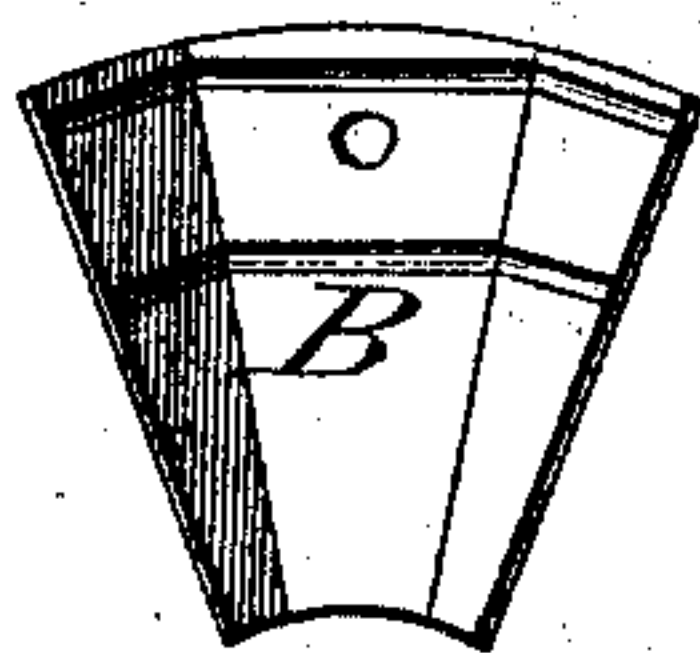
G. C. NAPHEYS.  
Bail-Ear for Bucket and Pail.

No. 211,036.

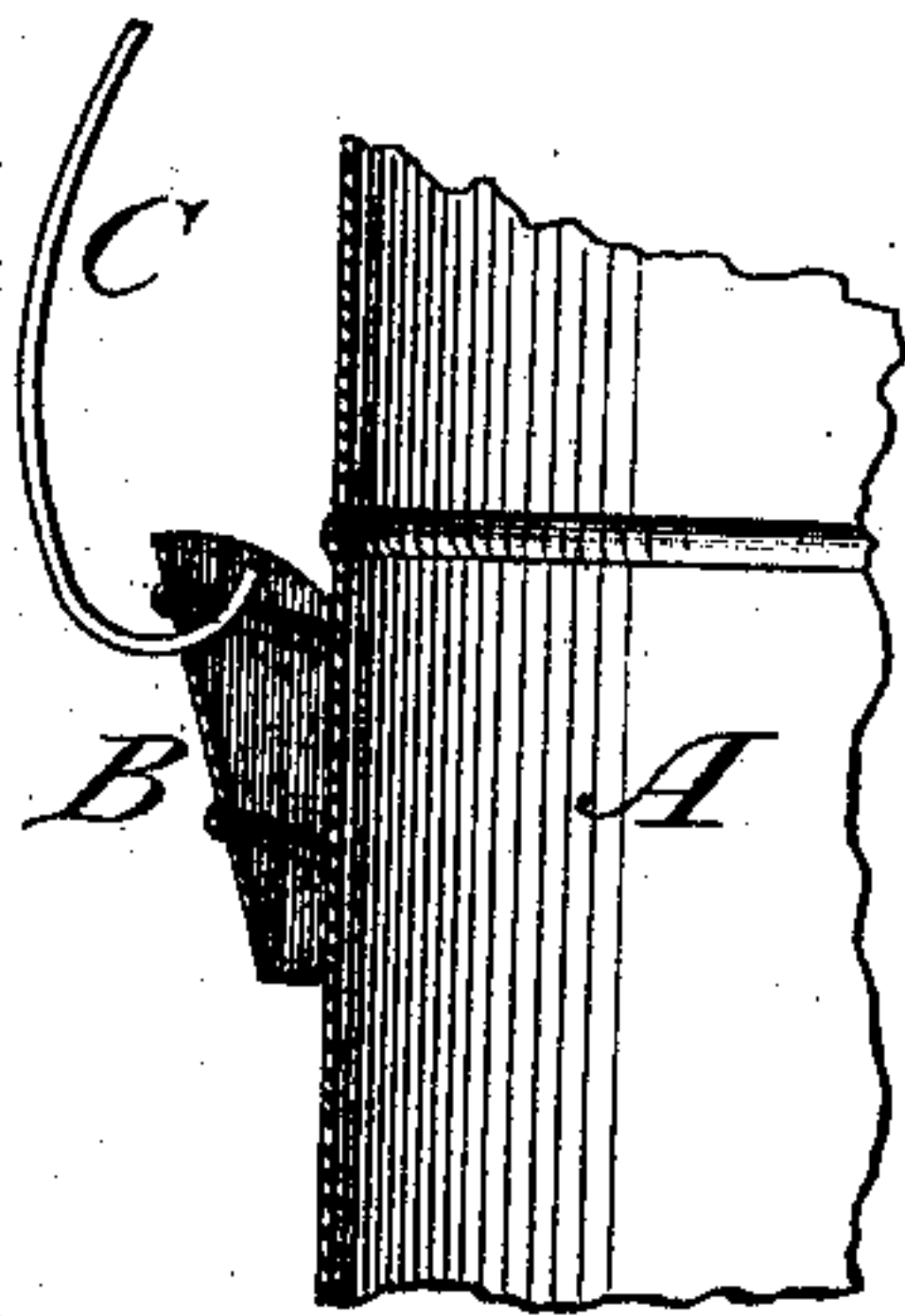
Patented Dec. 17, 1878.



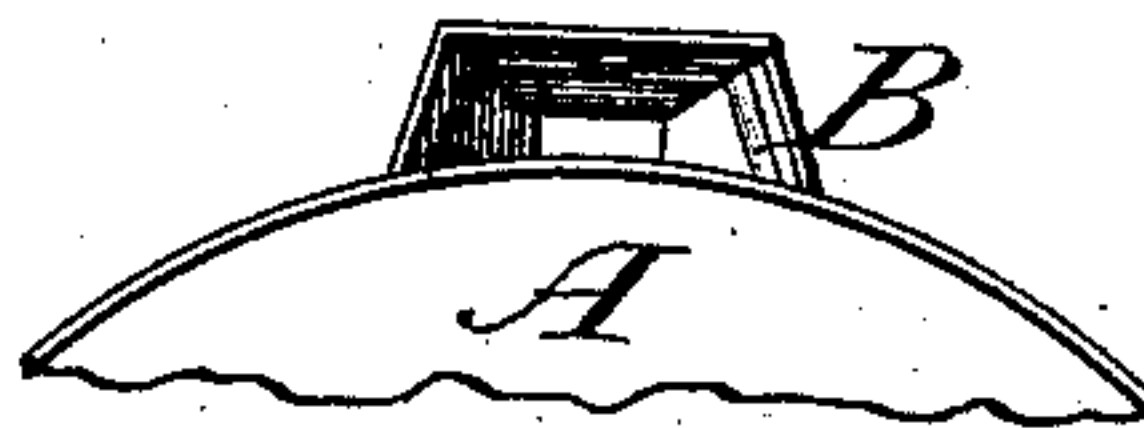
*Fig. 2.*



*Fig. 3.*



*Fig. 4.*



*Attest:*

*Fanny Stewart  
James B Stewart*

*Inventor.*

*George C. Napheys  
By Jos I Stewart, atty.*



# UNITED STATES PATENT OFFICE.

GEORGE C. NAPHEYS, OF PHILADELPHIA, PENNSYLVANIA.

## IMPROVEMENT IN BAIL-EARS FOR BUCKETS AND PAILS.

Specification forming part of Letters Patent No. **211,036**, dated December 17, 1878; application filed November 15, 1878.

*To all whom it may concern:*

Be it known that I, GEORGE C. NAPHEYS, of the city of Philadelphia, in the State of Pennsylvania, have invented a new and useful Improvement in Bail-Ears for Buckets, Pails, and other Vessels, of which the following is a specification:

The invention relates to those ears which are used for attaching movable handles or bails to buckets, pails, and other vessels, which are attached externally to the sides, and do not extend above the top of the pail, and in which the end of the bail passes through an eye and is bent in the form of a hook, that turns within the space between the pail and the raised portion of the ear.

The object of my invention is to provide a symmetrical, economical, strong, and easily-attachable bail-ear for metal pails, buckets, and similar vessels, which will hold the bail or movable handle sufficiently aloof to clear the lid of the pail, so that the same may be taken off and put on with ease; and it consists in a three-sided metal projection from either side of a metal pail near the upper rim, constructed of a single piece of the same material, in shape like the half of an inverted pyramid, open at both ends, attached to the pail by soldering along the projecting side edges, with an eye in front between two parallel ridges, through which the bail or handle is hooked, and in which it turns.

In the accompanying drawings, in which similar letters of reference indicate like parts, Figure 1 is a view of a pail with ears and bail embodying my invention. Fig. 2 is a front elevation of the ear. Fig. 3 is a vertical section of same with end of bail inserted therein. Fig. 4 is a top view of same on section of a pail.

In order to enable any one skilled in the art to manufacture my improved bail-ear, take of tinned metal plate a piece proportioned in size as an ear to that of the pail to which it is to be attached, and, after cutting the same into a nearly equilateral triangle, trim off the edge intended for the top of the ear toward the corners, so as to give it a slightly-convex curvature, (and cut off the opposite or lower point of the triangular piece square a short distance above its point,) punch an eye midway near the top, and then, by means of a stamp or die, strike the ear into the shape above described,

as shown in Fig. 2—namely, with three elongated triangular sides, broad at the top, and tapering nearly to a point at the bottom, with two parallel ridges, one above and the other below the eye on the front or face of the ear. This, being placed against a bucket and soldered thereto along a slightly-turned edge of the projecting sides, presents the appearance of a segment of an inverted pyramid, as shown in Fig. 1, the pail being marked A, the ear B, and the handle C. A vertical section of the ear B shows the hook of the handle C inserted through the eye in Fig. 3, and a top view of said ear B on a section of the pail A may be seen in Fig. 4, by which it will be seen that the broad open space at the top tapers gradually down to a small aperture at the bottom. This ear B being soldered to the bail A, one on each side, at a short distance below the upper rim or mouth of the pail, the bail or handle C, with its two ends turned inward, so as to form hooks, is then inserted through the eyes aforesaid, in which it moves around clear of the pail and lid.

The two parallel horizontal ridges struck across the face of the ear, uniting with the angles made by bending down the side projections, tend to strengthen the ear, and its advantages over other ears now in use are simplicity and ease of construction and attachment by soldering along straight edges, with consequent greater economy.

Having thus described my invention, and the mode of constructing the same, what I claim, and desire to secure by Letters Patent, is—

1. Metallic ears for attaching handles to pails, buckets, and other vessels, constructed each of a single piece of metal plate formed into three triangular sides, with two horizontal parallel ridges across the face, substantially as and for the purpose described.

2. The combination of a bail-ear of a single piece of metal formed into three triangular sides with a metal pail, by soldering the edges of the side projections of said ear thereto, with the broad part uppermost, and tapering downward nearly to a point, substantially as and for the purposes described.

GEORGE C. NAPHEYS.

Witnesses:

ROBERT L. ARMSTRONG,  
R. THORNTON WILTBANK.