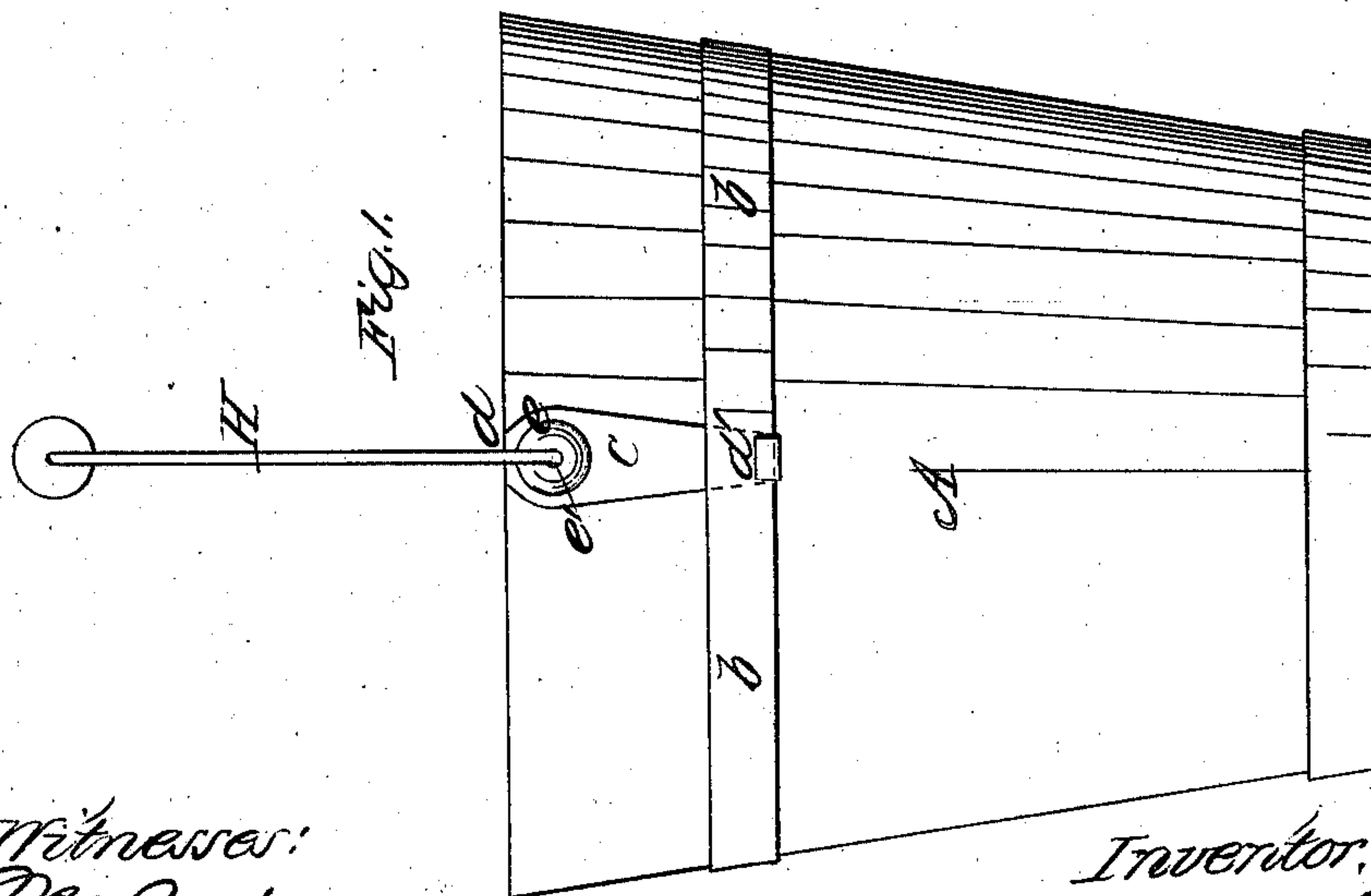
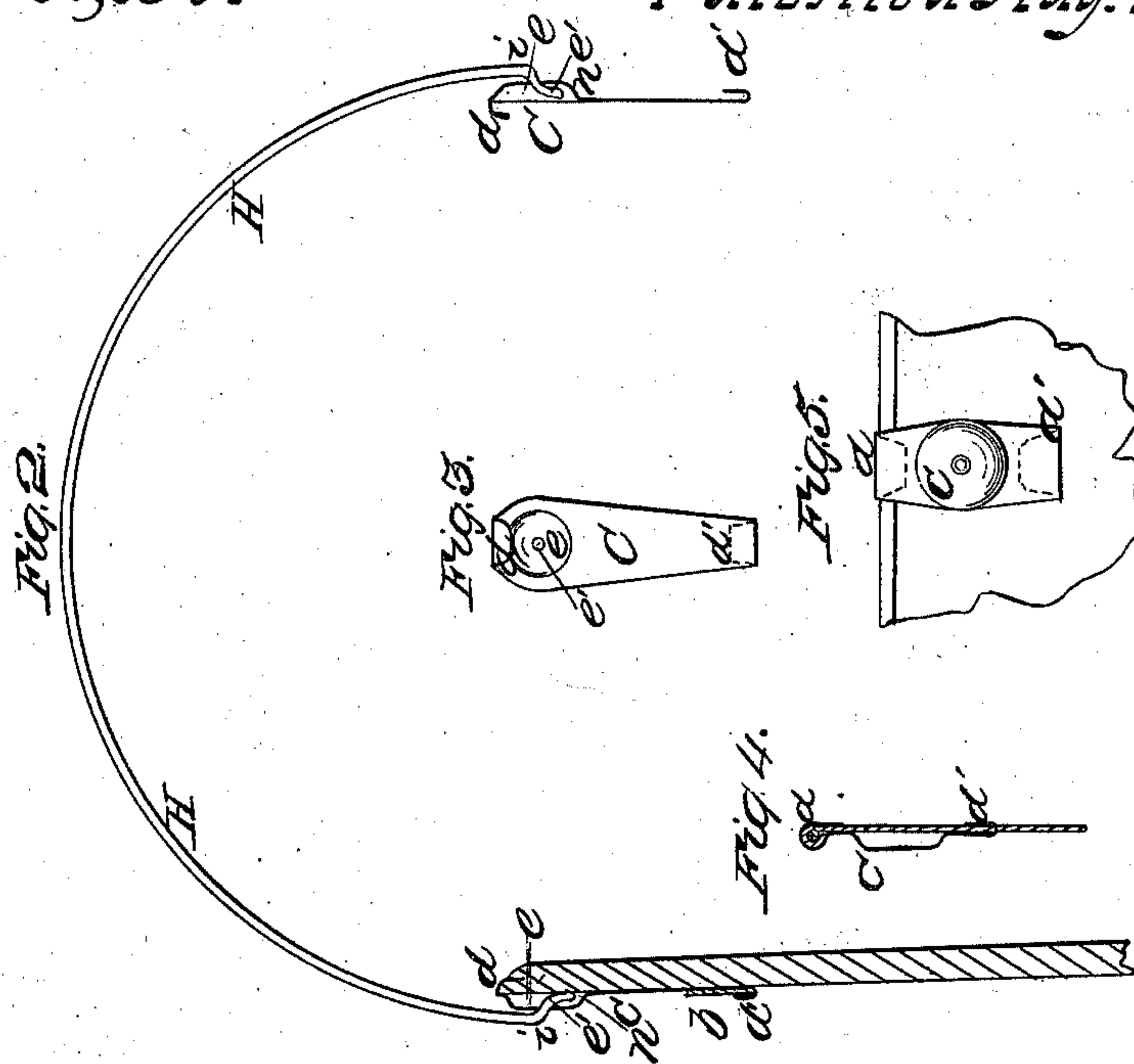


W. J. McLea,

Pail Ear.

N<sup>o</sup> 81,390.

Patented Aug. 25, 1868.



Witnesses:  
D. Becker  
E. Wilhelm

Inventor:  
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attys

# United States Patent Office.

WILLIAM J. McLEA, OF LEROY, NEW YORK, ASSIGNOR TO HIMSELF AND  
FRANK LADD.

*Letters Patent No. 81,390, dated August 25, 1868.*

## IMPROVEMENT IN BAIL-EARS FOR PAILS.

*The Schedule referred to in these Letters Patent and making part of the same.*

### TO ALL WHOM IT MAY CONCERN:

Be it known that I, WILLIAM J. McLEA, of Leroy, in the county of Genesee, and State of New York, have invented a new and improved Bail-Ear and Joint for Pails, &c.; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, in which—

Figure I is a view in elevation of a wooden pail, provided with my improvements.

Figure II is a vertical section through the bail-ears.

Figure III is a view of the inner side of one of the ears.

Like letters designate like parts in all the figures.

My improvement relates to a new manner of connecting the bail to the ears of pails, tubs, &c., and in securing the ears to the vessel without the use of rivets.

The invention consists—

In attaching to pails and other vessels bail-ears formed with two tips cut or stamped from plates of suitable metal, the lower one of said tips extending under the upper hoop of wooden vessels, or bent inward through the side of tin vessels and turned up, while the other tip is bent inward over the upper edge of the vessel, so as to secure the ear to the latter without the use of rivets, as hereinafter more fully set forth.

In the drawings—

A represents the wooden portion of a pail, *b* the upper hoop, C C the bail-ears, and H the bail.

The ears C are cut or stamped from sheets of brass, or other suitable metal or scraps, with a boss, *e*, and with tips, *d d'*, at the ends thereof, the upper tip *d* being bent inward and driven into the end of the stave, while the lower tip, *d'*, is bent out under the lower edge of the upper hoop *b*, and turned up against the same, as most clearly shown in Fig. II.

Figures IV and V represent the manner of attaching the ear to tin vessels, the lower tip for this purpose being passed inward through a suitable slit made in the side of the pail and then turned up, while the upper tip is bent over the edge of the vessel, as shown, thus effectually securing the ear in place, or both tips may be inserted through slits, and secured in a manner similar to the lower one, as represented in the figures just alluded to.

The bosses *e* are provided with a hole, *e'*, at the centre, to permit the insertion of the end of the wire forming the bail.

The ends of the bail are bent, as shown, consisting of a sudden bend, *z*, inward, and then having the extreme tip *n* bent downward.

The ends of the bail are first inserted in the ears, and the latter then secured to the vessel, when it will be found impossible to detach the bail so long as the ears remain in place, as will readily be perceived from an inspection of the drawing, Fig. II.

The tip at the upper end effectually secures the upper portion of the ear to the pail, while hoop *b* retains the lower end, and prevents the detachment of the ear from the upward strain in lifting on the bail.

My improved mode of attaching the bail-ears to wooden vessels is simple and cheap, as it dispenses with the use of rivets, the connection is consequently more reliable as there is no danger of the ears becoming loose or detached, from the rivets working out, as is the case when the ears are attached by that means.

The embossed portion of the ear leaves ample space between it and the wood for the ends of the bail to turn in as the latter is swung to either side.

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

Attaching bail-ears to pails and other vessels by means of the tips *d d'*, in the manner set forth.

WM. J. McLEA.

Witnesses:

FRANK LADD,

H. B. MORRISON.