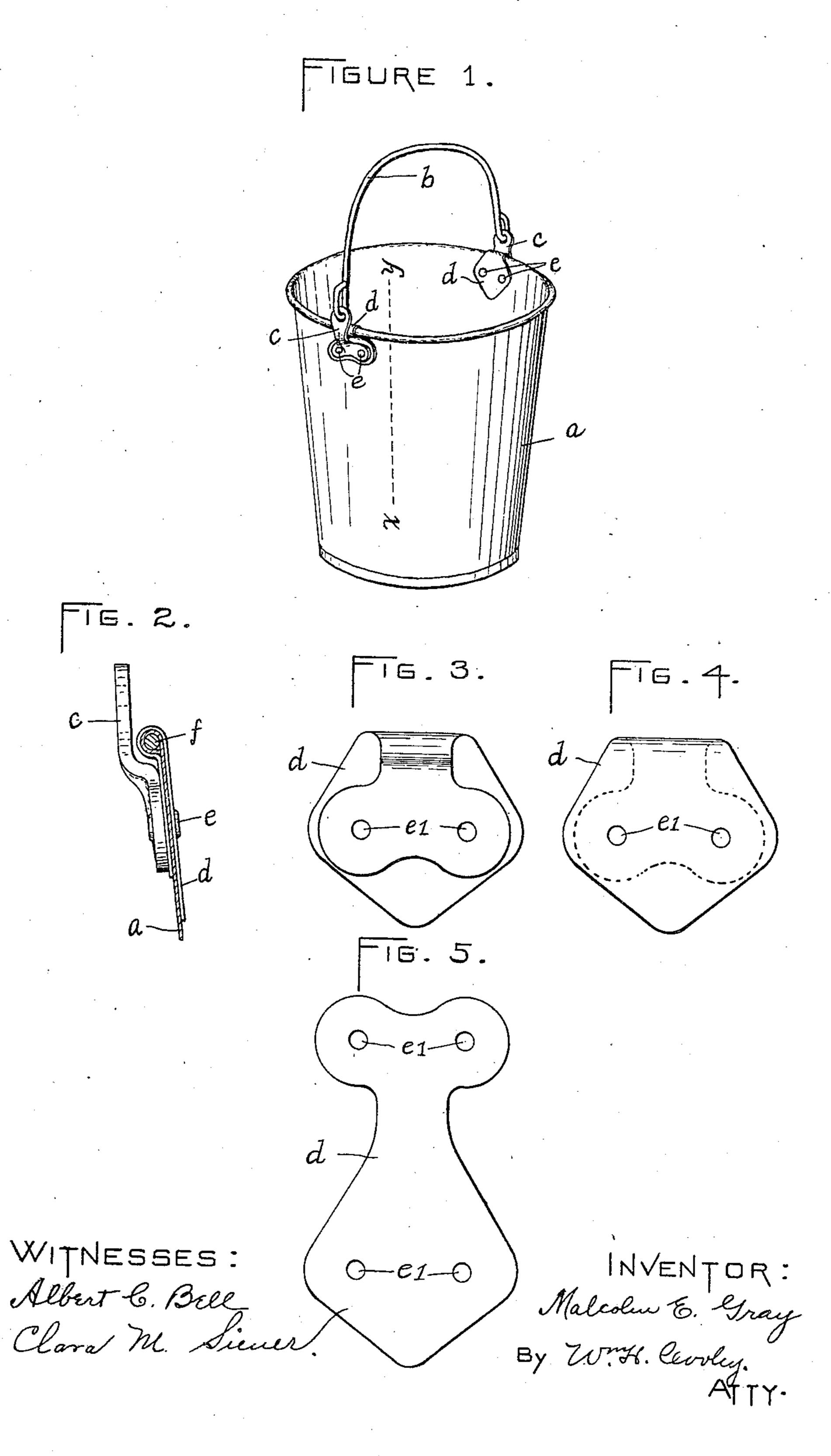
No. 890,640.

PATENTED JUNE 16, 1908.

M. E. GRAY.

REINFORCEMENT FOR PAILS, BUCKETS, &o.

APPLICATION FILED NOV. 13, 1905.



UNITED STATES PATENT OFFICE.

MALCOLM E. GRAY, OF ROCHESTER, NEW YORK.

REINFORCEMENT FOR PAILS, BUCKETS, &c.

No. 890,640.

Specification of Letters Patent.

Patented June 16, 1908.

Application filed November 13, 1905. Serial No. 287,014.

To all whom it may concern:

Be it known that I, Malcolm E. Gray, a citizen of the United States, residing at Rochester, in the county of Monroe and State of New York, have invented an Improved Reinforcement for Pails, Buckets, &c., of which the following is a specification.

This invention relates to a reinforcing means for attachment to the body of a pail or bucket, or such like article, at the points where the usual ears for a carrying bail are

attached.

As usually constructed, the ears which are attached to pails and buckets are of very 15 much thicker metal than that used in the body of the bucket or pail in order that they may bear the wear and the strain exerted by the bail in carrying the bucket or pail. As usually constructed and applied the ears to 20 buckets and pails are apt to loosen from the pail at the point of attachment thereto, on account of the comparative thinness of the metal comprising the body of the pail or bucket, resulting usually in an enlargement 25 of the holes in the body of the pail through which the usual rivets are inserted for attaching the ears thereto. For overcoming this difficulty I have provided a reinforcing member arranged to be soldered to the body of 30 the pail both on the outside and inside thereof, and such a reinforcement results substan tially in a material thickening, in effect, of the metal comprising the body of the pail at the point where the ear is attached,—and 35 such a reinforcing member having a comparatively small surface it may be quite thick without adding materially to the expense and weight of the pail.

An important advantage is gained by at-40 taching the reinforcment to the outside and the inside of the pail as well, and such a reinforcing member, if formed in two pieces, would require more skill and care in assembling than when made from a single piece, 45 formed over the bead or roll of the pail or bucket and extending downwardly therefrom a short distance both on the inside and outside of the pail. Another advantage in forming these two reinforcements in a single 50 piece or integrally is that the holes in each of such members are firmly held in alinement for the insertion of the rivets through such holes and the alined holes in the body of the pail and in the ear, proper, to be attached 55 thereto. Such a reinforcing member may

also be arranged, as in my present invention,

to engage the bead or roll at the top of the pail on the outside so as to transmit thereto the thrust exerted upon the pail by the ear and the bail in carrying the pail.

A reinforcing member constructed in this way serves the purpose of strengthening not only the body of the pail at the point where the ear is secured by the rivets but it also serves to transmit to the roll or bead at the 65 top of the pail the thrust exerted in handling

the pail.

The accompanying drawings illustrating my invention are as follows:—Figure 1 is a perspective of a pail or bucket having reinforcements thereon in accordance with my invention. Fig. 2 is a sectional view of a part of the side of the pail taken practically along the line x-y of Fig. 1. Fig. 3 is a view of the reinforcement as seen from the outside and Fig. 4 is a view as seen from the inside. Fig. 5 shows the blank from which the reinforcement is made and before it has been formed up.

Referring to the drawings, my reinforce- 80 ment is made of sheet metal, usually of the same material as the body of the pail, but preferably of considerably thicker stock, and is struck out by the cutting dies to the form indicated in Fig. 5, d showing the blank, in 85 which there are formed the holes e^1 . After being cut to the shape indicated in Fig. 5 the

blanks are then formed, as indicated in Figs. 1-2-3 and 4, so that, when sprung over the roll or bead at the top of the pail, the larger 90 portion will lie inside of the pail and the central portion will closely clasp the roll at the top of the pail with the part extending outside of the pail formed so as to lie closely against the roll or bead at the top of the pail 95 containing the usual wire f, in the manner indicated in Fig. 2, in which a represents the side of the pail and d the reinforcing member and e the rivets passing through the usual holes in the lower part of the ear e and also 100 through the openings e^1 in the reinforcement and of course through suitably alined holes

in the body of the pail a.

The ear c is of the usual construction and is arranged to be engaged by the bail b for 105

carrying the pail in the usual way.

By forming the reinforcement d in one piece with the central portion arranged to engage the roll or bead at the top of the pail, in the way indicated, there is transmitted to 110 the bead or roll the thrust exerted in carrying the pail and the reinforcement serves to

materially thicken the metal comprising at this point the body of the pail, and being formed in one piece, there is but one piece to handle and the alinement between the 5 holes on the outside and inside portions of the reinforcement is always perfectly main-

tained.

I desire to call attention to the fact that, even without soldering, by the use of a re-10 inforcement, when constructed in accordance with my invention, the thrust exerted in carrying the pail is transmitted directly to the roll at the top of the pail, although it is preferable that the reinforcement be sol-15 dered around its edge to the body of the pail both on the inside and outside of the pail.

What I claim is:— In a pail or bucket and in combination

with the side wall thereof and the bead or roll at its upper edge; a reinforcing member 20 extending both outside of and inside of the wall of the pail or bucket and formed around and engaging the bead or roll at the top thereof and an ear for a bail secured to the pail or bucket by rivets extending through 25 such reinforcing member and the side wall of the pail or bucket, such reinforcing member adapted after being formed up to be sprung into place over the upper edge of the bucket with the central portion thereof en- 30 gaging such bead or roll.

MALCOLM E. GRAY.

Witnesses: ALBERT C. BELL, CLARA M. SIENER.