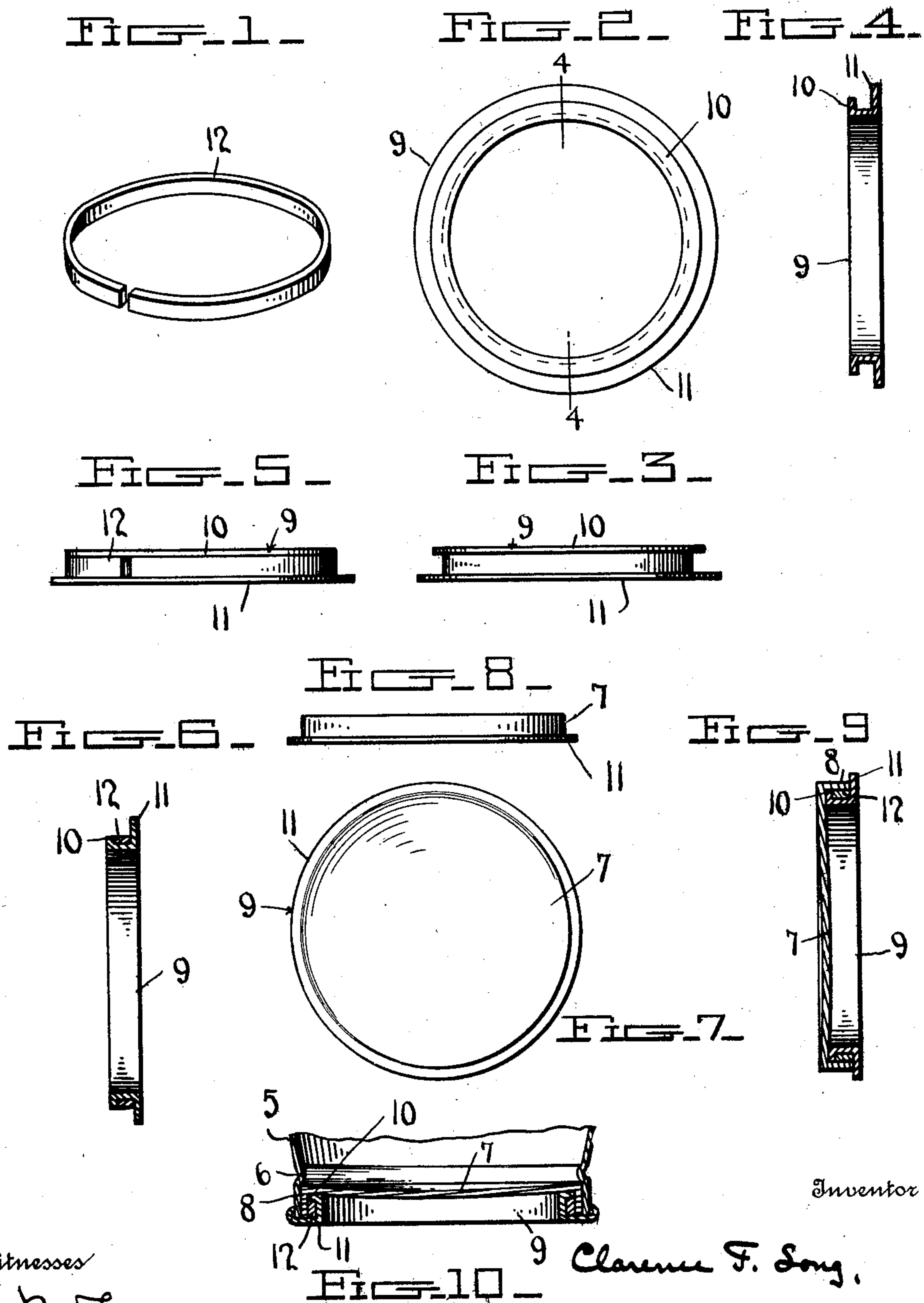


C. F. LONG.  
PAIL BOTTOM.  
APPLICATION FILED APR. 16, 1910.

998,105.

Patented July 18, 1911.



Witnesses  
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# UNITED STATES PATENT OFFICE.

CLARENCE F. LONG, OF MASON CITY, IOWA.

## PAIL-BOTTOM.

998,105.

Specification of Letters Patent.

Patented July 18, 1911.

Application filed April 16, 1910. Serial No. 555,821.

*To all whom it may concern:*

Be it known that I, CLARENCE F. LONG, a citizen of the United States, residing at Mason City, in the county of Cerro Gordo and State of Iowa, have invented certain new and useful Improvements in Pail-Bottoms, of which the following is a specification.

This invention relates to metallic receptacles generally, although it is especially designed to be used in connection with buckets, and has for its principal object to provide a bucket having a novel reinforced bottom construction.

A further object of the invention is to provide a device of the character described, which is composed of comparatively few parts and is therefore simple in construction, and cheap to manufacture.

With these and other objects in view, the invention comprises the novel combination of parts hereinafter more fully described and pointed out in the claims hereto appended; it being understood that various changes in the size and minor details of construction may be made without departing from or sacrificing any of the advantages of the invention.

In the drawing:—Figure 1 is a perspective view of a metallic split ring. Fig. 2 is a top plan view of a metallic annulus. Fig. 3 is a front elevation of the same. Fig. 4 is a transverse sectional view taken on the line 4—4 of Fig. 4. Fig. 5 is a front elevation showing the annulus and ring assembled. Fig. 6 is a transverse sectional view through the same. Fig. 7 is a top plan view showing a receptacle bottom and the annulus and ring in assembled relation. Fig. 8 is a front elevation of the same. Fig. 9 is a transverse sectional view of the same taken on the line 9—9 of Fig. 7, and Fig. 10 is a transverse sectional view showing the receptacle and bottom in assembled relation.

Like reference numerals designate corresponding parts in all the figures of the drawing.

Referring to the drawing, 5 designates an open-ended tubular receptacle, which is provided near its lower end with a circumferential groove 6. A bottom 7, which is preferably dished, is provided with a depending marginal flange 8 which is adapted to bear against the wall of the receptacle directly below the said groove 6, the edge of said flange being preferably ar-

ranged flush with the contiguous end of the tubular receptacle for a purpose hereinafter described. The groove thus serves as an abutment for preventing the bottom from moving inwardly. The invention further comprises an annulus 9 having outwardly extending upper and lower marginal flanges 10 and 11 respectively. Between the said upper and lower flanges is adapted to be placed a split metallic reinforcing ring 12. The top flange 10 of the annulus is of a width equal to the width of the said ring, as will be readily seen by reference to Figs. 6, 9 and 10 of the drawing. It will, of course, be obviously apparent that the flange does not have to be as wide as the ring. The annulus is positioned within the flange 8 of the bottom in such a manner that the upper flange 10 bears against the bottom 7, and the lower flange 11, which is of greater width than the said upper flange 10, bears against the flush edges of the tubular receptacle and the said flange 8 of the bottom, and extends beyond the said receptacle, the outer edge 11<sup>a</sup> of the bottom flange 11 is then bent upwardly and soldered to the outer face of the receptacle. The annulus is preferably soldered to the bottom of the bucket. Thus it will be seen that a bucket having a water proof reinforced bottom flange has been constructed.

In practice the bottom is positioned in the receptacle, the ring is then positioned around the annulus, and the same is then positioned within the flange of the bottom. The extreme edge of the lower flange of the annulus is then bent upwardly and soldered to the receptacle.

It will be noted that the groove 6 will prevent the bottom from any tendency of inward movement, and the annulus will prevent any tendency of outward movement thereof.

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

1. A device of the class described, comprising an open-ended tubular member, a closure arranged within one end thereof and provided with a depending marginal flange, an annulus arranged within the flange, and a reinforcing element arranged between the flange and the annulus, said element comprising a split metallic ring.

2. A device of the class described, comprising an open-ended tubular member, a



closure arranged within one end thereof and provided with a depending marginal flange, an annulus arranged within the flange and provided with outwardly extending upper and lower flanges, and a reinforcing element arranged around the annulus between the said upper and lower flanges, and the marginal flange.

3. A device of the class described, comprising an open-ended tubular member, a closure arranged within one end thereof and provided with a depending marginal flange, an annulus arranged within the flange and provided with outwardly extending upper and lower flanges, and a metallic split ring arranged around the annulus between the said upper and lower flanges, and the marginal flange.

4. A device of the class described, com-

prising an open-ended tubular member, an annulus arranged within one end thereof and provided with an outwardly extending marginal flange having its edge bent upwardly around and secured to the member, a closure arranged within the member and provided with a depending flange arranged between the member and the annulus, and a split metallic ring arranged around the annulus above the flange thereof and between the said annulus and the marginal flange.

In testimony whereof I have affixed my signature in presence of two witnesses.

CLARENCE F. LONG.

Witnesses:

W. M. LONG,

CORA A. WARNER.

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Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."

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