

No. 747,719.

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F. Z. HUNT & H. J. REILING.

DREDGE BUCKET.

APPLICATION FILED SEPT. 6, 1903.

NO MODEL.

Fig. 1.

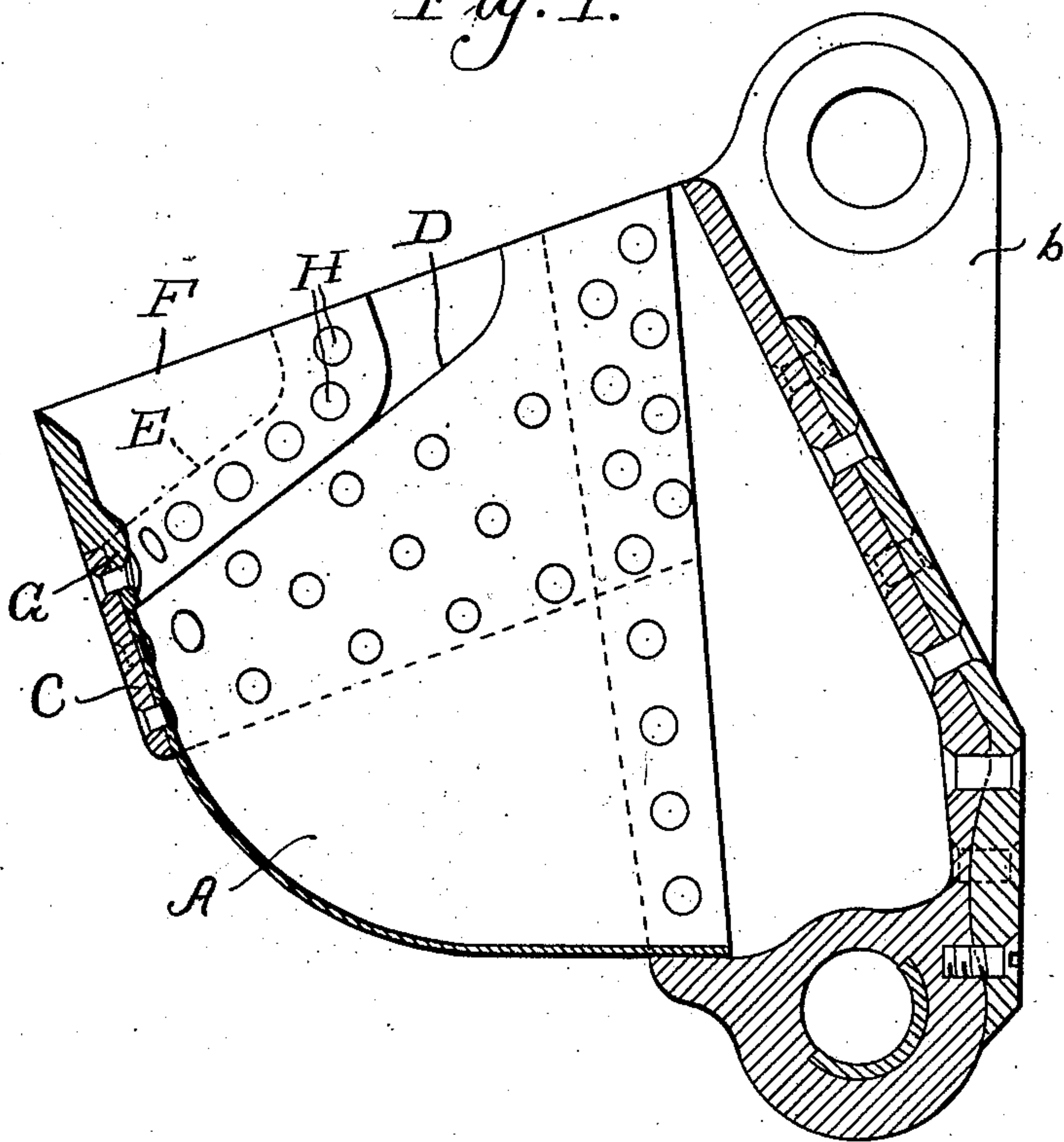
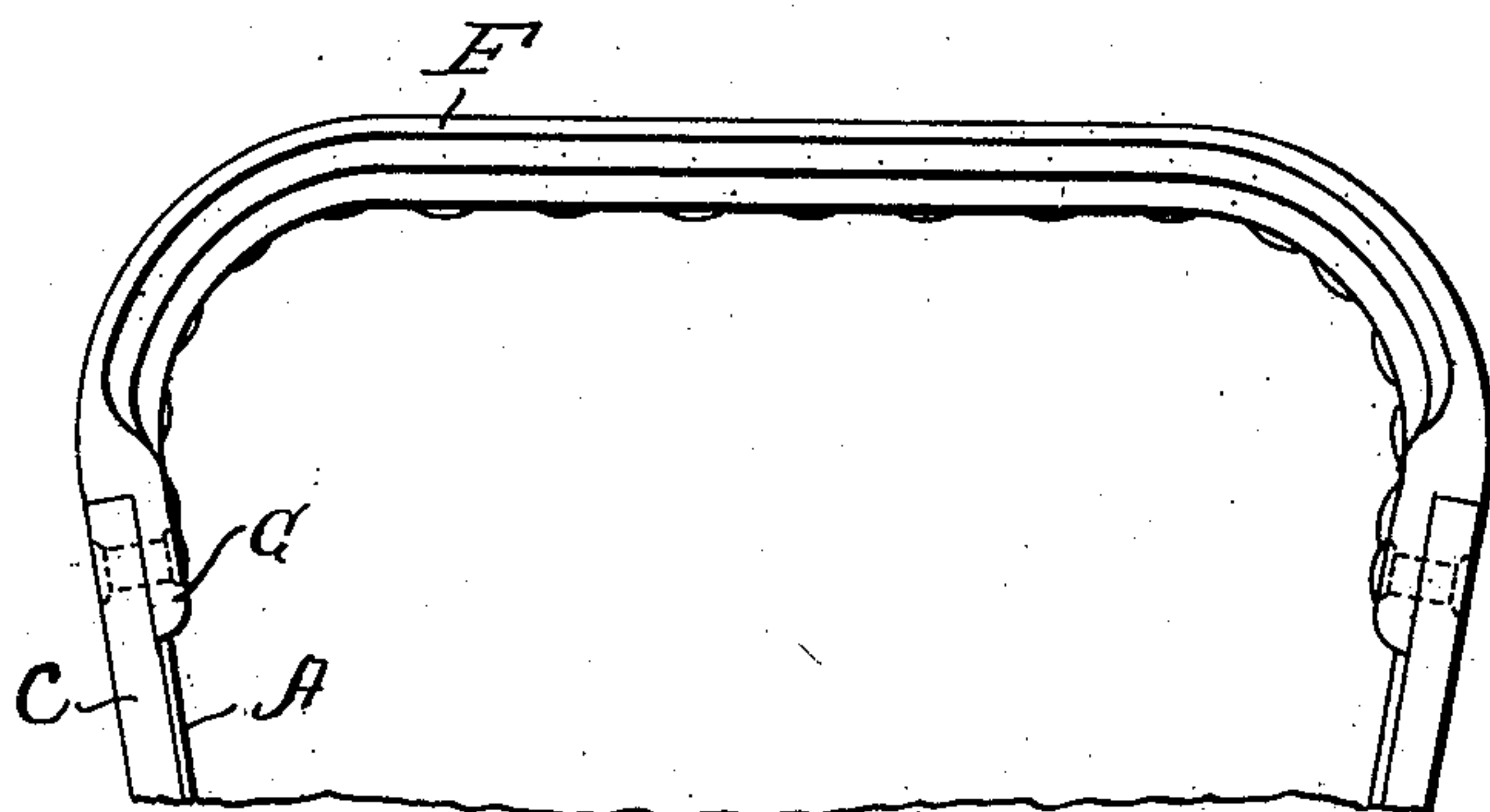


Fig. 2.



Witnesses:

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UNITED STATES PATENT OFFICE.

FRANK Z. HUNT AND HERMAN J. REILING, OF ELIZABETHTOWN, TERRITORY
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DREDGE-BUCKET.

SPECIFICATION forming part of Letters Patent No. 747,719, dated December 22, 1903.

Application filed September 5, 1903. Serial No. 172,181. (No model.)

To all whom it may concern:

Be it known that we, FRANK Z. HUNT and HERMAN J. REILING, citizens of the United States, residing at Elizabethtown, in the county of Colfax and Territory of New Mexico, have invented certain new and useful Improvements in Dredge-Buckets; and we do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

Our invention relates to a novel construction in a lip for dredge-buckets or shovels, the object being to provide a device of this character which can be easily removed and replaced when worn and which can also be readily used to repair old bucket-lips which have become worn; and it consists in the features of construction hereinafter fully described and claimed.

In the accompanying drawings, illustrating our invention, Figure 1 is a vertical section of a dredge-bucket provided with a lip constructed in accordance with our invention. Fig. 2 is a fragmentary top plan view of same.

In said drawings, A indicates the bowl of a dredge-bucket, which is riveted to the link B of the carrier-chain and is provided at its upper edge with a lip C, which is riveted thereto, said bowl being cut away along its upper free edge, as indicated by the line D. The said lip C extends completely around the upper end of said bowl A, being similar in shape to a horseshoe and having its free ends suitably secured to parts of the said link B. The said lip C serves to reinforce the said bowl A and relieve the latter of a great part of the strain to which it is subjected. As said buckets are now generally constructed the said lip C has parallel or practically parallel upper and lower edges, its upper edge being flush with the normal upper edge of said bowl and taking the place of said cut-away portion thereof. The said lip C is thus exposed to great wear and rapidly wears away, so that its frequent renewal is necessary. To effect such renewal, it is necessary to remove all the rivets by means of which said lip is secured to the bowl, and as the wear is confined almost exclusively to the extreme forward or free edge of said lip renewal by these means involves great waste of time and material, as will be obvious. To obviate this waste, we cut away

the said extreme forward or free edge of said lip C, as indicated by the dotted line E, Fig. 1, and replace the same by a lip F, which rests on the edge of the said cut-away portion of said lip C and is provided with an offset downwardly-extending flange G, preferably so arranged as to rest at its lower edge upon the upper cut-away edge of said bowl A, the said lip F being secured to said lip C by means of rivets H, passing through said flange G and the lip C. The said lip F is equally adapted for repairing worn lips C and for original use and is easily replaced by reason of the comparatively small number of rivets to be removed, so that it effects a very considerable saving of labor and material.

We claim as our invention—

1. In a dredge-bucket, the combination with the bowl and a reinforcing member secured thereto and extending along the upper edge of said bowl, of a lip adapted to rest upon and be secured to said reinforcing member.

2. In a dredge-bucket, the combination with the bowl and a reinforcing member secured thereto and projecting beyond the free edge thereof, of a recess in said reinforcing member, and a lip fitting said recess and secured to said member.

3. In a dredge-bucket, the combination with the bowl and a reinforcing member secured thereto and projecting beyond the free edge thereof, of a recess in said reinforcing member, a lip fitting said recess and an offset flange on said lip adapted to rest upon the edge of said bowl and to be secured to the inner face of said reinforcing member.

4. In a dredge-bucket, the combination with the bowl, having its free edge cut away, a reinforcing member secured to said bowl and projecting into said cut-away portion thereof, and a recess in the projecting portion of said member, of a lip adapted to fit said recess and having a downwardly-extending offset flange adapted to lie in contact with one face of said reinforcing member and being secured thereto.

In testimony whereof we affix our signatures in presence of two witnesses.

FRANK Z. HUNT.

HERMAN J. REILING.

Witnesses:

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