

M. D. BENNETT.
Buckets for Chain-Pumps.

No. 149,977.

Patented April 21, 1874.

Fig. 1.

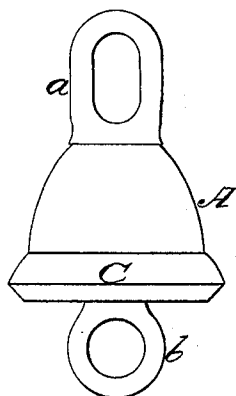


Fig. 2.

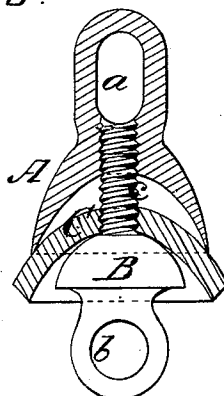
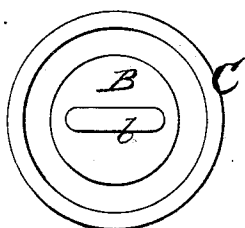


Fig. 3.



WITNESSES

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IMPROVEMENT IN BUCKETS FOR CHAIN-PUMPS.

Specification forming part of Letters Patent No. **149,977**, dated April 21, 1874; application filed March 28, 1874.

To all whom it may concern:

Be it known that I, MORRIS D. BENNETT, of Horseheads, in the county of Chemung and State of New York, have invented a new and valuable Improvement in Buckets for Chain-Pumps; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawing is a representation of a side elevation of my bucket. Fig. 2 is a sectional view of the same, and Fig. 3 is a top-plan view.

This invention has relation to buckets which are especially designed for chain-pumps; and it consists in the combination, with a cup having a loop or link formed on it, of an adjustable convex looped portion, whereby an expansible packing is obtained, as will be hereinafter more fully explained.

The following is a description of my invention:

In the annexed drawings, A represents a cup, which is hollow and hemispherical, and which has a loop or link, *a*, formed on its convex side. B designates a plano-convex plug, having a loop or link, *b*, formed on its bottom flat surface, and a screw-threaded stem, *c*, formed on its upper convex side and in the center thereof. The screw-stem *c* is received through a threaded hole made through the center of the cup A, as shown in Fig. 2. C designates a packing, which is of larger diameter than the diameter of the cup A, and which

is preferably made of india-rubber, although it may be made of any other suitable material. This packing C is circular in form, and it has a hole through its center to receive through it the screw-stem *c*.

It will be seen from the above description that when the three parts A, B, and C are put together and screwed tightly, the circumference of the packing C will be exposed evenly beyond the edge of the cup A, and will be directed downward. By turning the part B the packing C can be expanded or contracted in its diameter and made to fit the bore of the pump-tube, and as the packing wears smaller from use it can be readily expanded to fit the tube-bore again.

When the washer is worn until it is useless a new washer can be substituted for it by simply unscrewing the parts A B. The parts A B may be made of malleable iron and galvanized to prevent them from rusting.

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

A pump-bucket for chain-pumps, consisting of the concavo-convex upper portion A, having a loop or link, *a*, formed on it, in combination with the plano-convex adjustable portion B, having a loop, *b*, and a screw, *c*, formed on it, substantially as described.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

MORRIS D. BENNETT.

Witnesses:

C. BURCH,
M. RICKEY.