

O. JUNKERMAN.
BUCKET FOR CHAIN-PUMPS.

No. 172,747.

Patented Jan. 25, 1876.

Fig 2

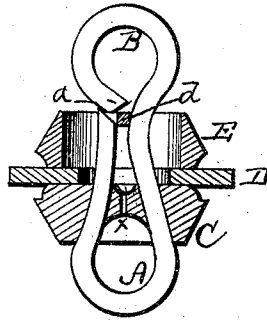


Fig 1

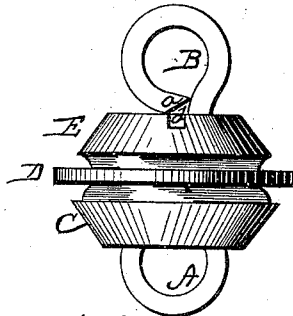
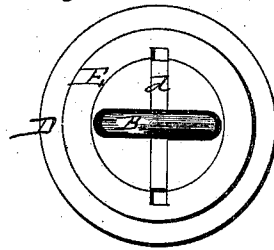


Fig 3



WITNESSES
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UNITED STATES PATENT OFFICE.

OTTO JUNKERMAN, OF CENTRALIA, ILLINOIS.

IMPROVEMENT IN BUCKETS FOR CHAIN-PUMPS.

Specification forming part of Letters Patent No. **172,747**, dated January 25, 1876; application filed September 11, 1875.

To all whom it may concern:

Be it known that I, OTTO JUNKERMAN, of Centralia, in the county of Marion and in the State of Illinois, have invented certain new and useful Improvements in Buckets for Chain-Pumps; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, making a part of this specification.

The nature of my invention consists in the construction and arrangement of a chain-pump bucket, as will be hereinafter more fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, in which—

Figure 1 is a side view of my chain-pump bucket. Fig. 2 is a vertical section, and Fig. 3 a plan view of the same.

The stem or shank of my bucket is formed of a rod or thick wire, bent at one end to form a loop, A, and at the other end to form an eye, B, the ends of the wire coming together, as shown, and forming a shoulder, *a*.

On the loop A is cast, or otherwise perma-

nently affixed, a circular disk, C, having a vent, *x*, through it at or near the center.

On this disk is placed a leather washer, D, having a slot across the center, for the passage of the eye B, and on top of the washer is placed another disk, E, which has also a slot across the center to pass over the eye B.

In the upper surface of the disk E is a groove across the center, and at right angles with the slot in the disk. Through this groove is passed a wedge-shaped key, *d*, which goes under the shoulder *a*, and thus firmly unites the parts together.

When the leather gets worn it can easily be removed and another washer substituted.

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

The combination of the shank-forming loop A, eye B, and shoulder *a*, the disk C, with vent *x*, washer D, slotted and grooved disk E, and key *d*, all substantially as and for the purposes herein set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 25th day of August, A. D. 1875.

Witnesses: OTTO JUNKERMAN.

EMADEUS PROBST,
JNO. W. COMBS.