

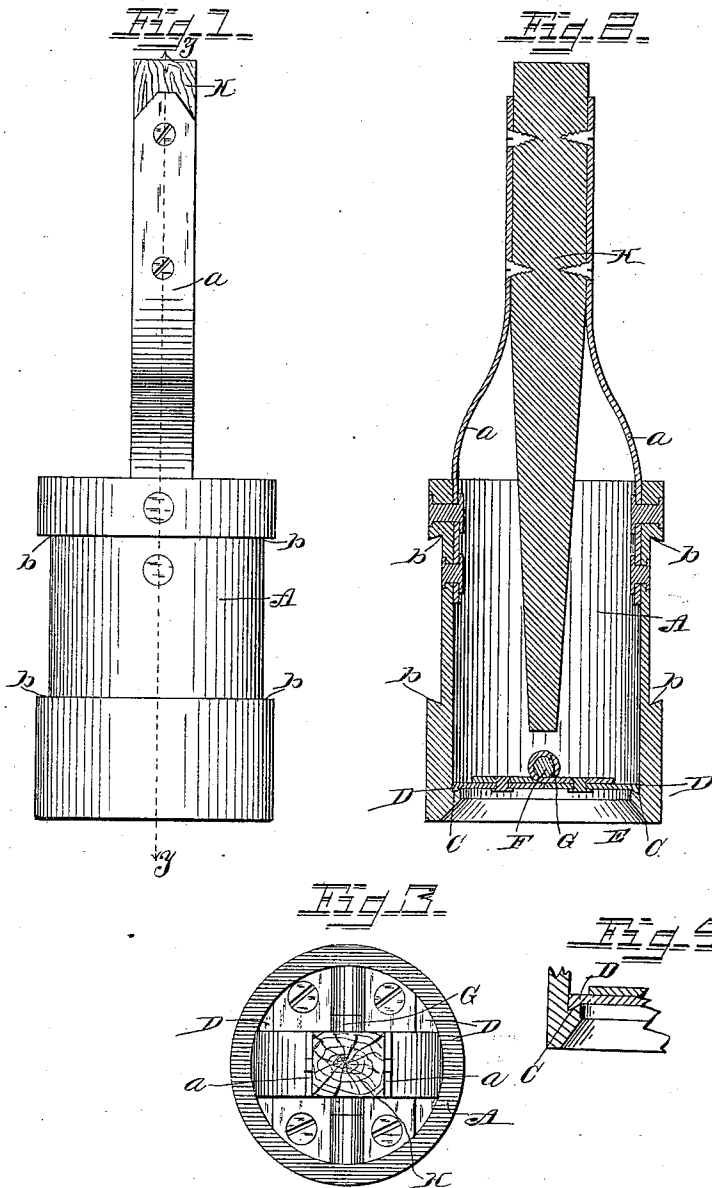
(No Model.)

J. J. BURCH & J. B. SCOVILL.

PUMP VALVE.

No. 334,105.

Patented Jan. 12, 1886.



WITNESSES.

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JONATHAN JONES BURCH AND JOSEPH B. SCOVILL, OF CARTHAGE, MO.

PUMP-VALVE.

SPECIFICATION forming part of Letters Patent No. 334,105, dated January 12, 1886.

Application filed August 18, 1885. Serial No. 174,691. (No model.)

To all whom it may concern:

Be it known that we, JONATHAN J. BURCH and JOSEPH B. SCOVILL, citizens of the United States of America, residing at Carthage, in the county of Jasper and State of Missouri, have invented certain new and useful Improvements in Pump-Valves, of which the following is a specification, reference being had therein to the accompanying drawings.

Our invention relates to an improvement in pump-valves; and it consists in the peculiar construction, combination, and arrangement of the parts, substantially as hereinafter more fully shown and described, and particularly pointed out in the claim.

In the accompanying drawings, Figure 1 is a side elevation showing the bucket and connections. Fig. 2 is a vertical section of our pump-valve, taken on the line *yy*. Fig. 3 is a plan view thereof, and Fig. 4 is a detail sectional view.

In the construction of our pump-valve we ordinarily construct a metallic bucket, A, with a dovetailed circumferential groove on its outer periphery, as shown at *b*, for reception of packing, which may be made of any well-known material, and form a rim or valve-seat, C, on the inner periphery of the bucket. Against this rim or valve-seat the metallic wings D descend in and closely seat the valve as against egress of fluid, the said metallic rim being beveled to flare outwardly and to register with a coincident bevel in a reverse direction formed on the edges of each of the valve-wings, which renders the valve perfectly airtight. The valve E consists of the transverse bar F, which is projected across the bucket and secured in suitable orifices provided therein, the transverse bar F serving as the bearings for hinge G. Hinge G is, as usual, provided with two leaves, and each of these leaves

has riveted thereto one of the two valve-wings D. The pump-rod H is squared near its lower terminal point, and there secured to bucket A by means of the metallic straps *a*, which project into and are riveted to the inner periphery of the bucket, the opposite ends of straps *a* being rigidly screwed or bolted to the pump-rod. The pump-rod H is also tapered and projects into the bucket, as shown, to a point a short distance above the valve-wings when closed down, and there disposed the wings are brought into contact with it when thrown up vertically, and thus the lower end of the pump-rod, which is in the bucket, serves as a fender to prevent any unequal water-pressure from throwing any one of the valve-wings over onto the other one occupying its normal position.

Thus constructed our pump-valve is very durable and unusally efficient. It is readily repaired when worn by use, and it may be produced at minimum cost.

Having thus fully described our invention, what we claim, and desire to secure by Letters Patent, is—

The combination, with the bucket having a dovetailed circumferential groove on its outer periphery and a beveled recess on its inner face, and the transverse bar having the hinge of the valve-wings, of the pump-rod secured to said bucket and extending inwardly therein to a point a short distance above the said valve-wings, serving as a fender, substantially as shown and described.

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

JONATHAN JONES BURCH.
JOSEPH B. SCOVILL.

Witnesses:

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