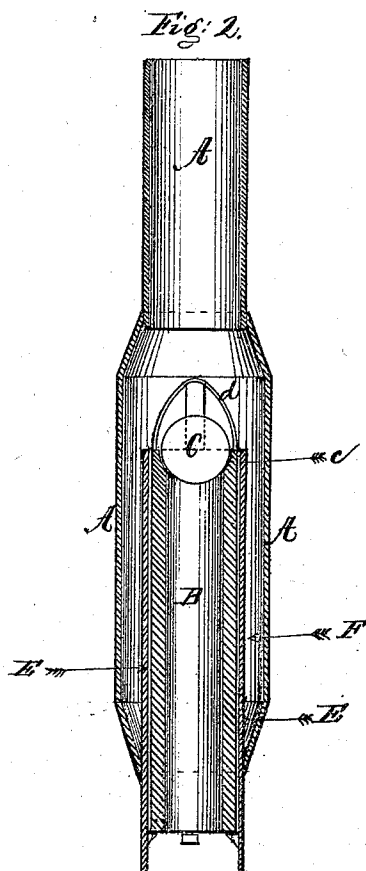


W. H. BIRGE.

Rivet-Pockets for Oil Well Pumps.

No. 134,970.

Patented Jan. 21, 1873.



Witnesses:
Franklin Bennett.
Richard C. Smith.

Inventor:
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W. H.

UNITED STATES PATENT OFFICE.

WILLIAM H. BIRGE, OF FRANKLIN, PENNSYLVANIA.

IMPROVEMENT IN RIVET-POCKETS FOR OIL-WELL PUMPS.

Specification forming part of Letters Patent No. **134,970**, dated January 21, 1873.

To all whom it may concern:

Be it known that I, WILLIAM H. BIRGE, of Franklin, county of Venango, State of Pennsylvania, have invented certain Improvements in Rivet-Pockets for Pumps in Oil-Wells, of which the following is a specification:

The object of my invention is to prevent obstructions in the pumps of oil-wells by broken or loose rivets, which generally get wedged in the side of the standing valve and cut grooves or creases in the polished parts of the working-barrel, and thus make it unfit for use. The sucker-rods are connected together with iron joints, which are riveted to the wooden rods with five or six rivets. These rods often part at the joints, and the broken rivets fall to the lower part of the working-barrel and on the top of the standing or lower valve, and when this valve is drawn out for repair the broken rivets are in the way.

In order to describe my invention more fully, I refer to the accompanying drawing forming a part of this specification.

Figure I is a side view of an oil-well pump

embodying my invention. Fig. II is a vertical-cut sectional view of the same.

A is the working-barrel. B is a standing valve-barrel. *c* is the valve-seat. C is the ball-valve. *d* is the cage for the ball-valve, preventing it from dropping off the seat. E is a tube that holds the standing valve upright, and forms a pocket, F, between this and the outer casing of the working-barrel A.

Any rivet becoming loose or breaking, falling down the interior of the working-barrel A, strikes the cage *d* and drops down into the pocket F, where it in no way will become an obstacle or hinderance to the proper working of the pump.

Having thus described my invention, I desire to claim—

The pocket F formed between the barrels A and tube E, in combination with the barrel B, valve C, seat *c*, and cage *d*, substantially as and for the purpose hereinbefore set forth.

Witnesses: WILLIAM H. BIRGE.

THOS. ELLIS,
S. S. AVERY.