

T. B. KELLEY.

METALLIC PACKING FOR OIL-WELL PUMP-VALVES.

No. 187,762.

Patented Feb. 27, 1877.

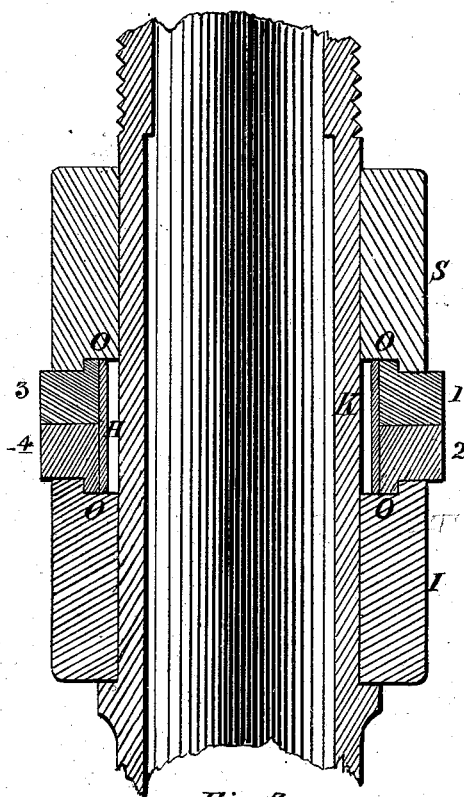


Fig 3.

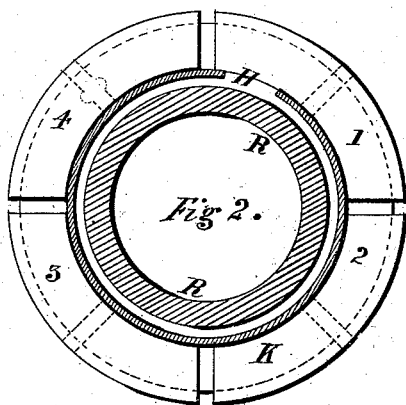


Fig 2.

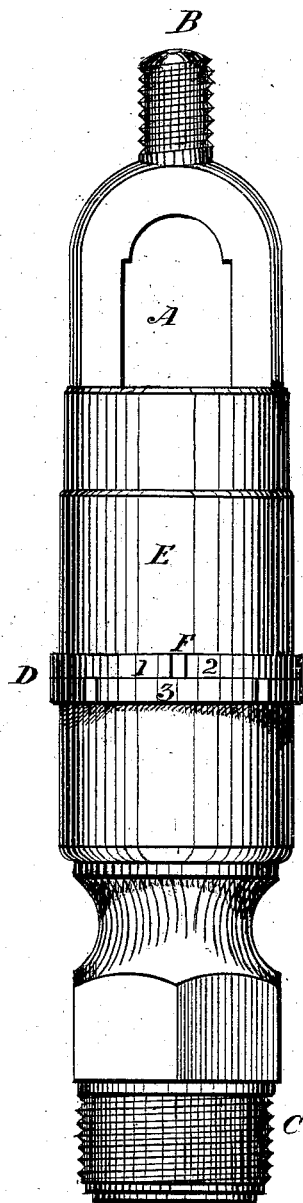


Fig 1.

WITNESSES :

L. J. Leberman
Jos. L. White

INVENTOR :

Thomas Barnes Kelley
by his atty
A. B. Richmond

UNITED STATES PATENT OFFICE.

THOMAS B. KELLEY, OF HARMONSBURG, PENNSYLVANIA.

IMPROVEMENT IN METALLIC PACKINGS FOR OIL-WELL PUMP-VALVES.

Specification forming part of Letters Patent No. **187,762**, dated February 27, 1877; application filed November 17, 1876.

To all whom it may concern:

Be it known that I, THOMAS BARNES KELLEY, of Harmonsburg, Crawford county, Pennsylvania, have invented a new and Improved Mode of Packing Valve-Chambers or Buckets for Oil-Pumps, which improvement is fully set forth in the following specification, reference being had to the accompanying drawings:

The object of my invention is to construct a packing for valve-chambers or cylinders or buckets of oil-well pumps, of metal, that will adjust itself to the inside of the pump-barrel.

Figure 1 represents a valve-cylinder or bucket, with the packing in place. (Shown at D.

This packing is composed of two metallic rings, cut in segments, as shown at 1 2 3 4, Fig. 2. Back of these segments is a circular spring, H K, that passes around the valve cylinder or bucket in a deep groove made therein, and in which the packing-rings are placed. This spring is left open at H, and against it the segments of the packing-rings rest, and they are by it forced out against the pump-cylinder.

Fig. 3 is a sectional view of my packing.

On the inside of the packing-rings 1 2 3 4 are flanges O O O O, which fit into a recess in the collars S T, and serve to keep the rings in place.

When the rings are in place they are so adjusted as to "break joints"—that is, the solid part of the lower ring is opposite the opening in the upper. This makes a tight packing. (See Fig. 1, where F represents the opening between the ends of the segments 1, 2, and 3—the solid part of the segment in the lower ring.)

I claim—

The packing-rings D, constructed in segments 1 2 3 4, with the flange at O O O O, in combination with the spring H K, constructed as described, for the purposes set forth.

THOMAS B. KELLEY.

Witnesses:

A. B. RICHMOND,
L. A. LEBERMAN.