

W. A. HARRIS.

Drip-Cups for Valves and Journals.

No. 149,752.

Patented April 14, 1874.

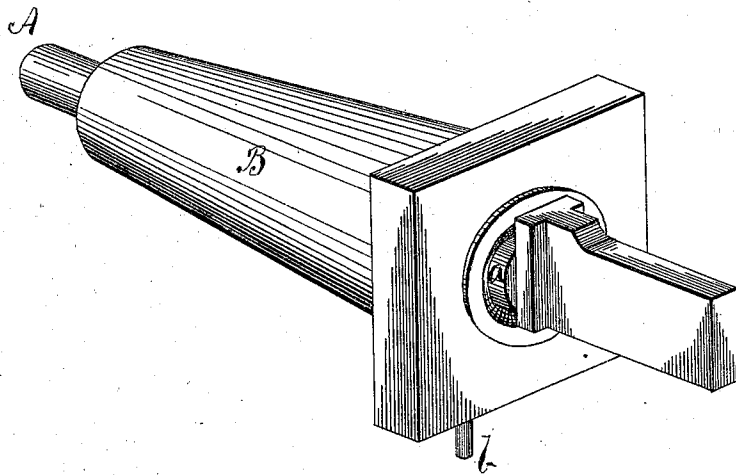


FIG. 1.

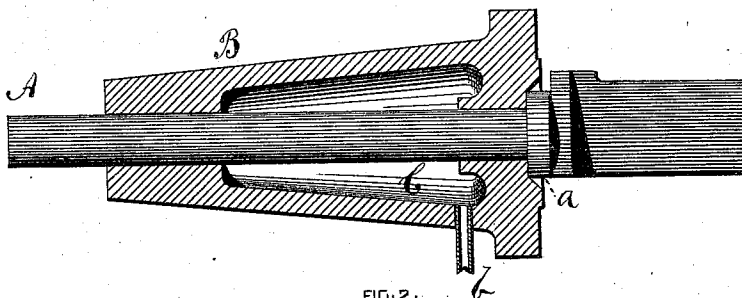


FIG. 2.

WITNESSES.

Q. S. B. B. B.
Thomas F. Cosgrove.

INVENTOR.

W. A. Harris.

UNITED STATES PATENT OFFICE.

WILLIAM A. HARRIS, OF PROVIDENCE, RHODE ISLAND.

IMPROVEMENT IN DRIP-CUPS FOR VALVES AND JOURNALS.

Specification forming part of Letters Patent No. **149,752**, dated April 14, 1874; application filed March 13, 1874.

To all whom it may concern:

Be it known that I, WILLIAM A. HARRIS, of the city and county of Providence, in the State of Rhode Island, have invented a new and useful Improvement in Steam-Engines; and I do hereby declare that the following specification, taken in connection with the drawings making a part of the same, is a full, clear, and exact description thereof.

Figure 1 is a view in perspective. Fig. 2 is a longitudinal section.

My invention relates to a new device for collecting and conveying away the drippings of oil and the water from condensed steam which works through the joints of the journal-bearings for the valve-rods in that description of steam-engines or other machines which employ rotating valve-rods for operating the valves.

A represents a valve-rod of a steam-engine of the class referred to. B is a bracket-arm projecting from the side of the steam-chest, for supporting and giving a bearing for such valve-rod, and *a* is a flange concentric with such arm, the face of which is ground to fit a seat on the inner end of the bracket, to cover

the joint described in other Letters Patent heretofore granted to Geo. R. Babbitt, February 18, 1873.

The interior of the bracket B is, in the process of casting, "cored out," so as to make a chamber, C, within the bracket, and in which it is obvious that all drippings which come through the joint made by the flange with the seat at the inner end of the bracket will be collected. The chamber C having its largest diameter nearest the steam-chest, all fluids collected in the chamber will flow in that direction, from which, by means of a drip-pipe, *b*, the same can be conducted into the pit of the foundation or other convenient place.

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

The combination, with the bracket-support B for a valve-rod of a steam-engine and the bearing of the rod, of an interior chamber, C, and drip-pipe *b*, substantially as described, for the purposes set forth.

WM. A. HARRIS.

Witnesses:

O. L. BOSWORTH,
THOMAS F. COSGROVE.