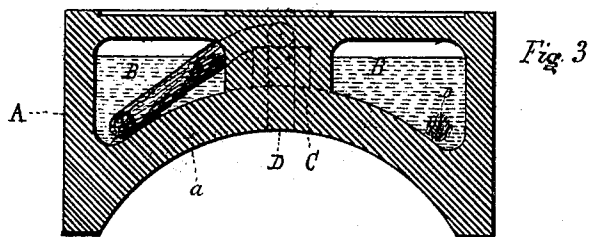
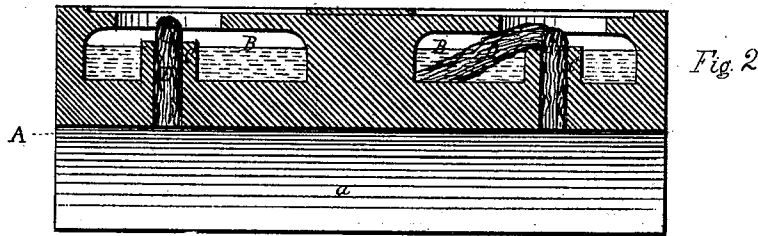
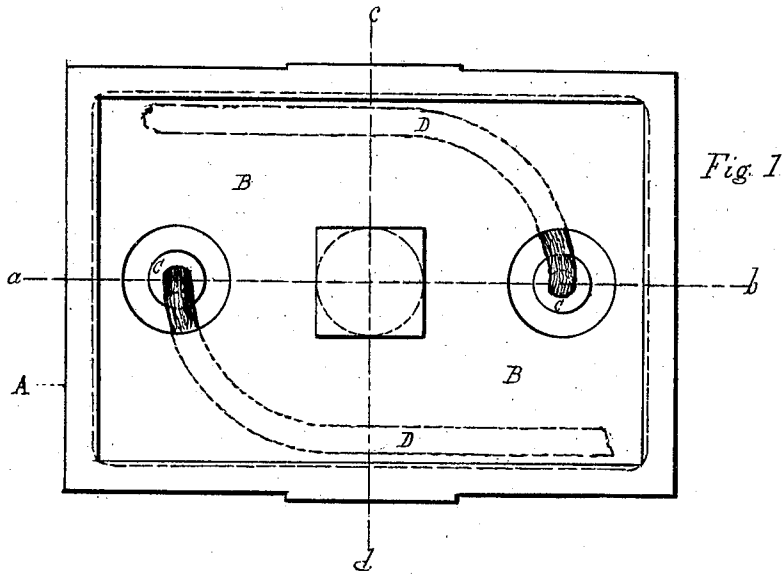


I. P. Wendell,

Journal.

No. 10,551.

Patented Apr. 5, 1870.



Witnesses

Thomas J. Bailey

Samuel H. Kramer

Inventor

Isaac P. Wendell

By his Attorney Stephen Willard

United States Patent Office.

ISAAC P. WENDELL, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNOR TO HIMSELF AND STEPHEN P. M. TASKER, OF SAME PLACE.

Letters Patent No. 101,551, dated April 5, 1870.

IMPROVEMENT IN LUBRICATING JOURNALS AND BEARINGS.

The Schedule referred to in these Letters Patent and making part of the same

I, ISAAC P. WENDELL, of the city of Philadelphia and State of Pennsylvania, have invented certain Improvements in Lubricating Journal-Bearings, of which the following is a specification.

This invention is an improvement on my inclosed journal-bearing for railroad-cars, for which a patent was issued November 24, 1868, and antedated May 25, 1868, and consists in substituting cords or bundles of wires, instead of fibrous cords, in connection with tubes leading from the face of the bearing to an oil-chamber within the latter, the lubrication being effected by means of capillary attraction, as in the former invention.

The principal advantage resulting from this improvement over the other is the fact of the outer ends of the wires touching the periphery of the journal, and, consequently, as the latter revolves, a slight vibration is given to the wires, whereby the tubes are kept open so as to keep up a regular and uniform supply of oil to the journal.

To enable others skilled in the art to which my improvement appertains to apply the same to practice, I will now give a detailed description thereof.

In the accompanying drawings, which make a part of this specification—

Figure 1 is a plan view of a journal-bearing for railroad-cars, on the improved plan.

Figure 2 is a longitudinal section at the line *a b* of fig. 1.

Figure 3 is a cross-section at the line *c d*.

Like letters in all the figures indicate the same parts

The drawings represent a journal-bearing for railroad-cars. The invention is, however, applicable to the bearings of mill and other shafts.

A is a journal-bearing having an oil-chamber, B, provided with tubes C, in which are placed cords or bundles of wires, D, the outer ends of the wires coming even with the face *a* of the bearing, and the main portion of the same lying in the oil within the chamber B, the portion of the wires within the chamber being either connected or separated and spread out in the oil.

As the journal revolves the oil is fed to its periphery by the wires by capillary attraction.

The supply of oil to the journal is made regular and uniform by means of the ends of the wire touching the journal, the motion of the latter producing a slight vibratory motion of the wires, so as to keep the tubes C open for the free supply of oil.

What I claim as new and desire to secure by Letters Patent is—

The combination of cords or bundles of wires C, with the tubes D arranged in relation to the oil-reservoir B and face *a* of the journal-bearing A, substantially in the manner, and for the purpose hereinbefore specified.

In testimony that the above is my invention, I have hereunto set my hand and affixed my seal this 3d day of March, 1870.

ISAAC P. WENDELL. [L. s.]

Witnesses:

STEPHEN USTICK,
THOMAS J. BEWLEY.