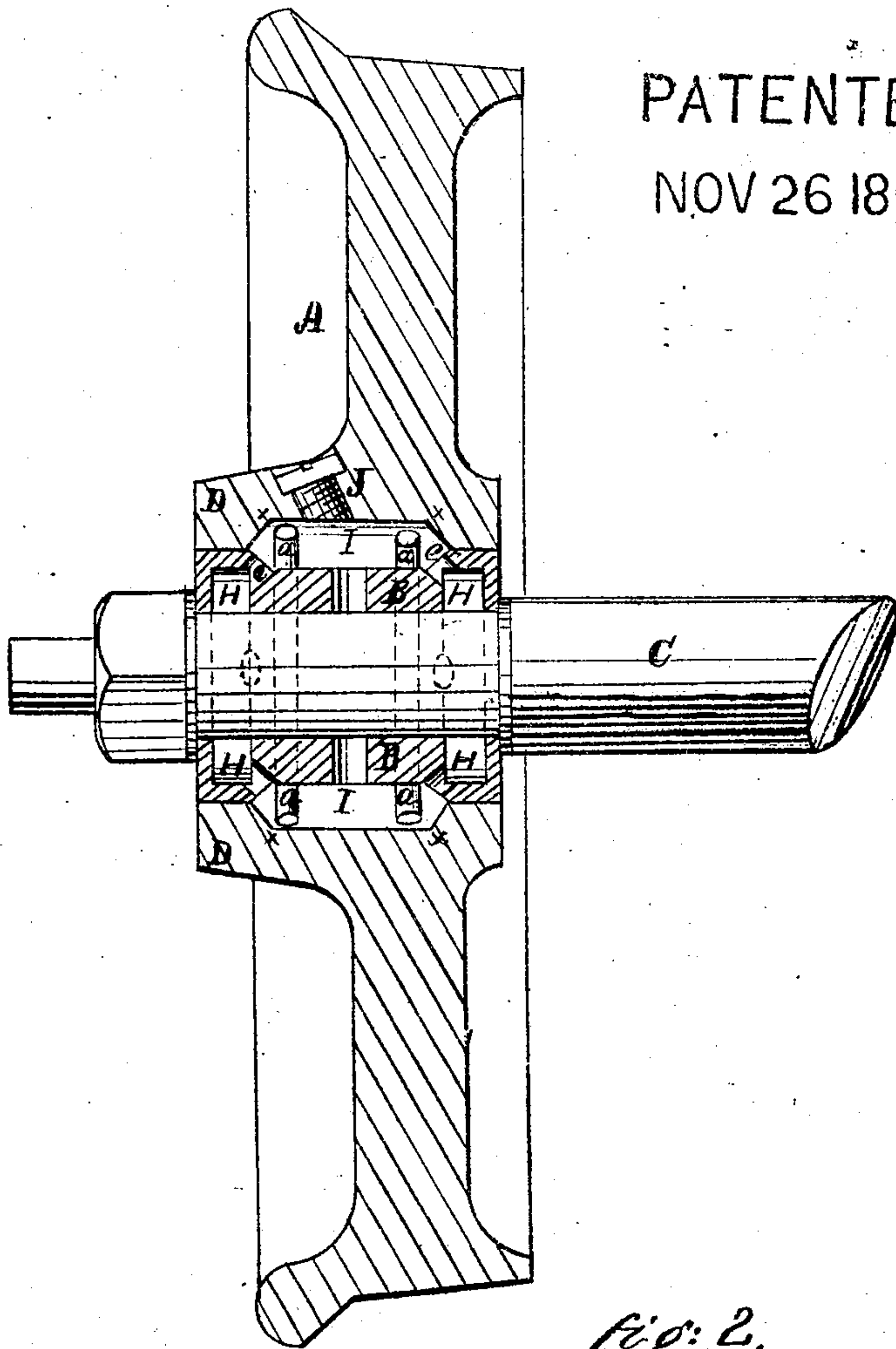


C. Purdy's Loose Pulley Box

71535

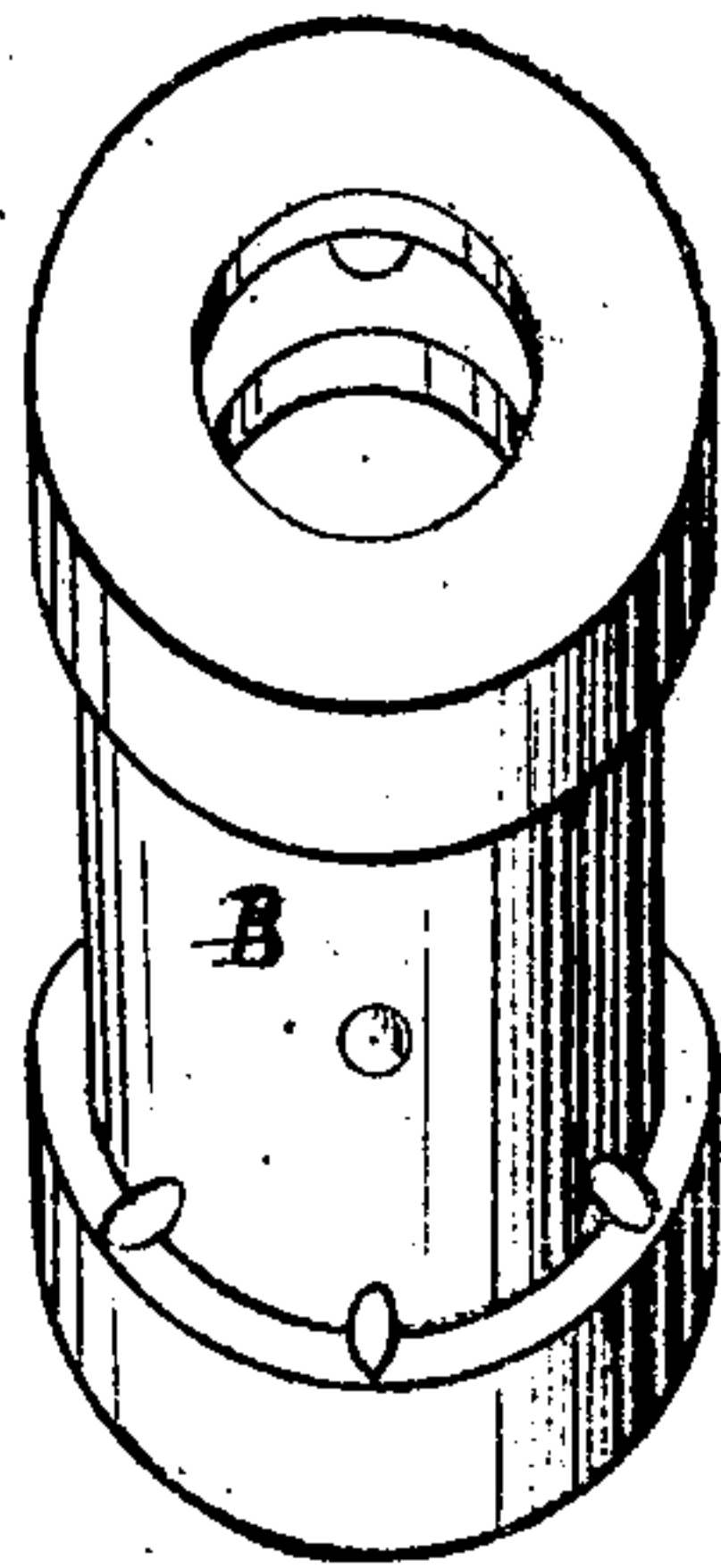
fig: 1.



PATENTED

NOV 26 1867

fig: 2.



Witnesses

Charles L. Coe

W. H. Harr

Inventor

C. Purdy

per

Alexander Mason
Att'y

United States Patent Office.

C. PURDY, OF BEDFORD, OHIO.

Letters Patent No. 71,535, dated November 26, 1867.

IMPROVEMENT IN LOOSE-PULLEY BOX.

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

TO ALL WHOM IT MAY CONCERN:

Be it known that I, C. PURDY, of Bedford, in the county of Cuyahoga, and in the State of Ohio, have invented certain new and useful Improvements in Loose-Pulley Box; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

In the annexed drawings, making part of this specification, A represents a car-wheel, and D its hub. Within this hub is cut a groove, which is annular in shape, and its outlines being designated by *x x*. B B represents a hollow cylinder, which is made of brass or iron or any other suitable material, and provided upon its periphery with a groove to correspond with that within the hub. This cylinder is fitted or pressed into the eye or opening in the hub, and the two grooves coming opposite, an oil-chamber, I, is formed. Small holes are drilled through the cylinder B into the chamber I, so that oil can pass from said chamber to the axle. C represents the axle, which is fitted snugly in the cylinder B. Within the cylinder B, near each end, are annular grooves H, and from these grooves, channels *e e* lead to the oil-chamber I. The oil passes to the axle or bearing through the holes at the centre of cylinder B, and drips back again into chamber I from grooves H, through channels *e e*. *a a* represent pieces of wicking, which are placed in the chamber I for retaining oil and conveying it to the axle. J represents a pipe provided with a suitable cap which passes through the hub into chamber I for introducing oil into this chamber. The axle C may be secured in position in any secure manner, and may be provided with washers on each side of the cylinder B to keep the oil from wasting. This construction is equally applicable to all loose pulleys, and it is for this purpose that I more particularly design it. In that case A would represent the loose pulley running upon its shaft C. The construction of the lubricating parts would be the same, precisely, as those described. In this arrangement, it will appear evident that the pulley will retain oil for a long while, and that it will be thoroughly protected from dust and dirt.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

The cylinder B, provided with annular grooves *h h*, and openings *e e*, which lead into the chamber I, constructed as described, and having wicking *a a*, the whole constructed and operating in the manner and for the purposes described.

In testimony that I claim the foregoing, I have hereunto set my hand and seal, this 29th day of August, 1867.

C. PURDY. [L. S.]

Witnesses:

A. H. TARBELL,

L. TARBELL.