

L. KNIGHT.
Loose Pulleys.

No. 140,048.

Patented June 17, 1873.

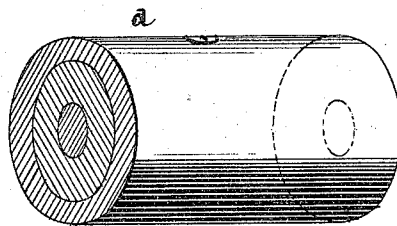


Fig. 1

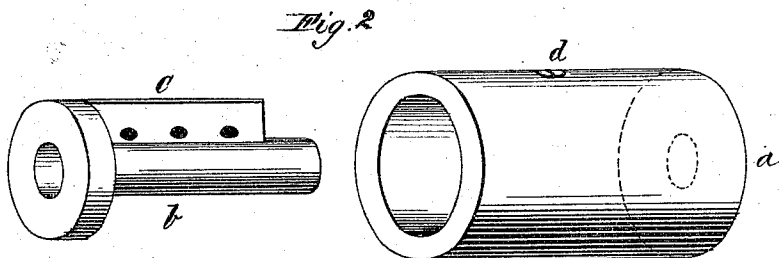


Fig. 2

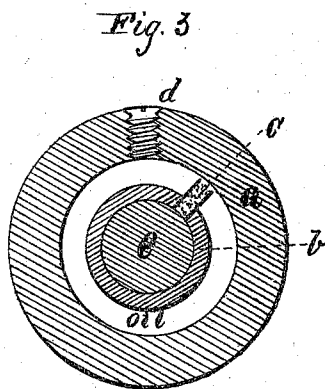


Fig. 3

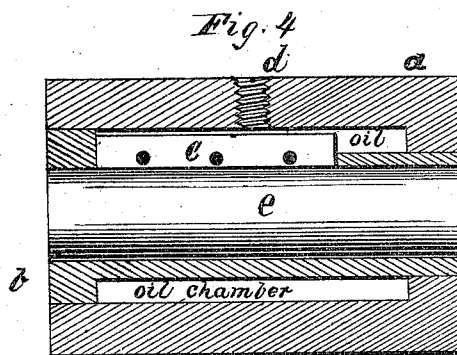


Fig. 4

Witnesses
S. W. Russell
Wm Anderson

Inventor.
Luther Knight.

UNITED STATES PATENT OFFICE.

LUTHER KNIGHT, OF SALEM, NEW YORK, ASSIGNOR OF ONE-HALF HIS
RIGHT TO JOHN H. THOMAS AND ARTHUR WHITLOCK, OF SAME PLACE.

IMPROVEMENT IN LOOSE PULLEYS.

Specification forming part of Letters Patent No. **140,048**, dated June 17, 1873; application filed
April 12, 1873.

To all whom it may concern:

Be it known that I, LUTHER KNIGHT, of Salem, in the county of Washington and State of New York, have invented an Improved Loose Pulley, the same being a self-oiling pulley; and do hereby declare that the following description, taken in connection with the accompanying drawings hereinafter referred to, forms a full and exact specification of the same, wherein I have set forth the nature and principles of my said improvement, by which my invention may be distinguished from others of a similar class, together with such parts as I claim and desire to secure by Letters Patent.

My invention relates to the construction of a loose pulley, in any of the known forms, with an oil reservoir or chamber, in such a manner and so situated or located that such loose pulley shall, when in motion and as long as said oil reservoir or chamber contains any oil, apply, through cotton-waste packing, its own oil, and thereby become a self-oiling loose pulley.

Figures 1, 2, 3, and 4 of the accompanying drawing are perspective and sectional views of such pulley. Said pulley is so constructed that the oil-chamber is in the center of the hub and entirely surrounds the bush, as seen in the white space in which is written the word "Oil" in Fig. 3.

b, in Figs. 2, 3, and 4, shows bush and its shoulder, which forms one of the ends of oil-chamber. *C*, in Figs. 2, 3, and 4, shows tube for cotton-waste packing; and *d*, in the same, shows plug-screw filling aperture which leads to oil-chamber, and through which aperture, when necessity requires, the oil-chamber is filled with oil. *E*, in Figs. 3 and 4, shows section of shaft on which the pulley revolves. The white space in Fig. 3, and the white space in Fig. 4, in which is written "Oil" and "Oil-chamber," show the oil-chamber and the location thereof.

The revolutions of pulley cause the oil in chamber to press against the inner surface of the hub of pulley, by which motion the oil comes continually in contact with waste-packing, through which it passes to, and is distributed over, shaft which is the bearing of the pulley.

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

In a self-oiling loose pulley, the combination of oil chamber or reservoir, bushing, and tube, constructed as and for the purposes aforesaid, substantially as described herein.

LUTHER KNIGHT.

Witnesses:

S. W. RUSSELL,
N. M. ANDREWS.