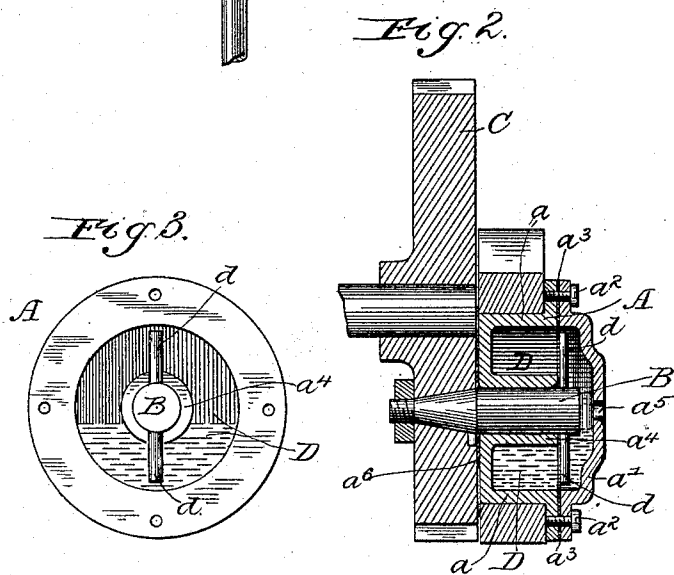
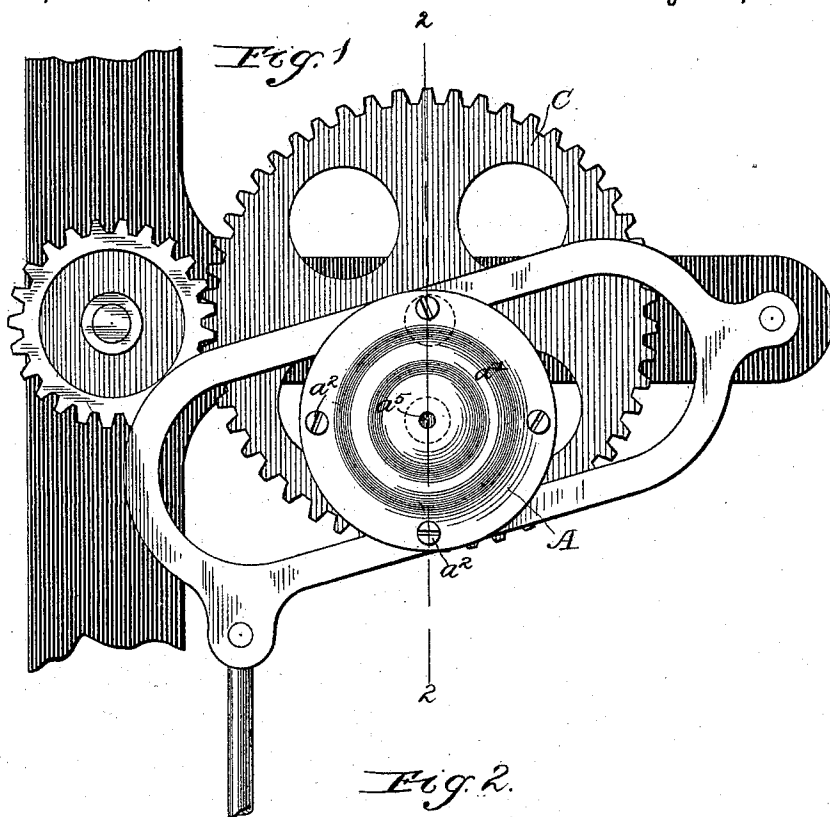


(No Model.)

L. W. BEARD.
LUBRICATOR.

No. 497,297.

Patented May 16, 1893.



Witnesses:
Wm. J. Fleming.
Wm. M. Rheum.

Inventor:
Lewis W. Beard
by L. Hill.
his Attorney.

UNITED STATES PATENT OFFICE.

LEWIS W. BEARD, OF DECORAH, IOWA.

LUBRICATOR.

SPECIFICATION forming part of Letters Patent No. 497,297, dated May 16, 1893.

Application filed March 22, 1892. Serial No. 426,010. (No model.)

To all whom it may concern:

Be it known that I, LEWIS W. BEARD, a citizen of the United States of America, residing at Decorah, in the county of Winneshiek and State of Iowa, have invented a certain new and useful Self-Lubricating Friction-Roller, of which the following is a specification.

Referring to the accompanying drawings, wherein like reference-letters indicate like parts, Figure 1. is a front elevation of my improved roller in use; Fig. 2. a section in line 2—2 of Fig. 1.; and Fig. 3. a view of the roller, with cap removed, showing the interior of the box.

This invention is an improved means for automatically lubricating the bearings of a friction-roller which is mounted and revolves upon a wrist-pin, which is rigidly attached to another revolving wheel, and, preferably, in which one of the lateral faces of the friction-roller revolves against a lateral face of the pulley to which the wrist-pin is attached.

My invention consists in the construction and combinations set forth in the annexed claims.

In the drawings, in which the friction-roller A. is mounted upon the wrist-pin B. of the revolving-wheel C., I make the friction-roller in two parts *a. a'*, secured together, when in use, by screw-bolts *a²*, and having a packing-ring *a³* interposed between them. From the part *a.* the lateral hub *a⁴* projects, through which extends the wrist-pin B. Surrounding the hub is a chamber D. formed by hollowing cut the part *a.*, and serving as an oil-chamber, which may be charged through the small hole *a⁵* in the part *a'*. The roller is preferably secured upon the wrist-pin by means of the linch-pin *d.*, driven into a transverse hole in the wrist-

pin, and having its ends projecting sufficiently to dip into the oil contained in the lower part of the chamber D.

The revolution of the wheel C. with the wrist-pin causes the pin *d.* to alternately dip into and rise out of the oil, raising at each upward movement a small quantity which runs down upon the wrist-pin, and works its way to the bearings, keeping them thoroughly lubricated.

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

1. In a self-oiling friction-roller, of the kind described, the combination with a revolving-wheel and a wrist-pin rigidly fixed therein; of the part *a.*, provided with an interior hub *a⁴*, and surrounding oil-chamber D., mounted and revolving upon said wrist-pin; the cap *a'*, secured to the part *a.*; and the linch-pin *d.* adapted to secure the part *a.* and its connected cap *a'* upon the wrist-pin, and also, through the revolution of the main wheel, to dip up and convey the oil to the bearings of the roller upon the wrist-pin; substantially as and for the purposes set forth.

2. In a device of the kind described, the combination of the revolving-wheel C.; and its wrist-pin B; with the part *a.* and its cap *a'*, mounted upon said wrist-pin; intervening packing *a³*; bolts *a²*, securing the parts *a. a'* together; and the linch-pin *d.* adapted to secure the roller *a. a'* upon the wrist-pin, and also to dip up and convey the oil to the bearings; substantially as set forth.

L. W. BEARD.

Witnesses:

H. C. GODDARD,
E. CHAMBERLIN.