(No Model.)

D. T. LANE.

ECCENTRIC.

No. 556,680. Patented Mar. 17, 1896.

FIG. 1.

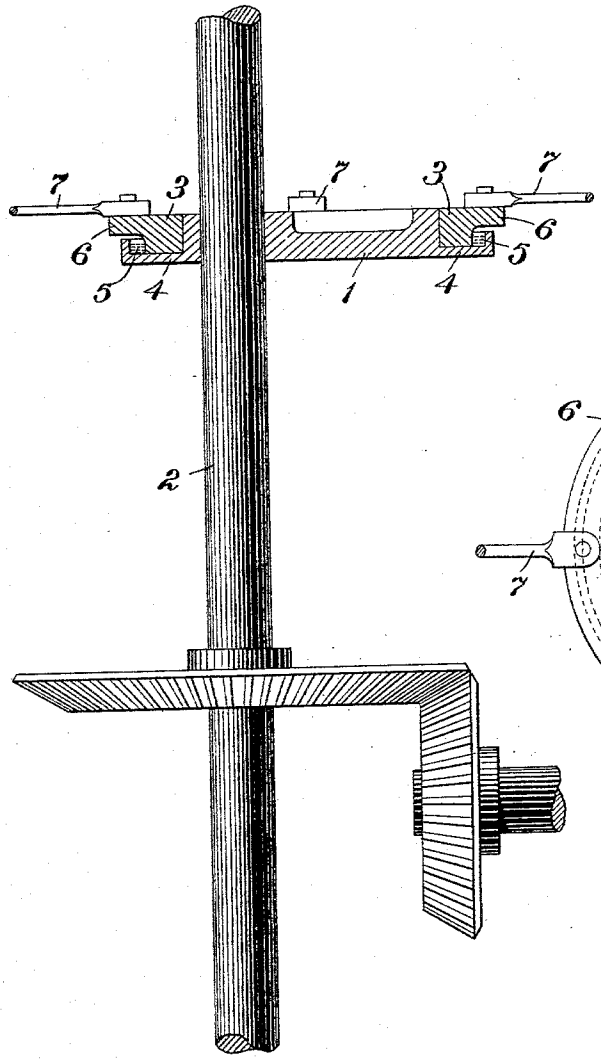
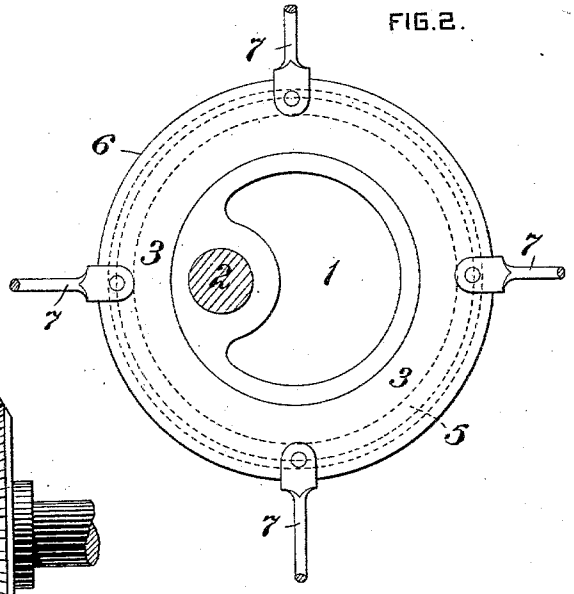


FIG. 2.



WITNESSES:

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F. E. Gaither.

INVENTOR,

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by Damon S. Wolcott

Att'y.

UNITED STATES PATENT OFFICE.

DAVID T. LANE, OF FRANKLIN, PENNSYLVANIA, ASSIGNOR TO W. N. EMERY & SON, OF SAME PLACE.

ECCENTRIC.

SPECIFICATION forming part of Letters Patent No. 556,680, dated March 17, 1896.

Application filed July 3, 1895. Serial No. 554,786. (No model.)

To all whom it may concern:

Be it known that I, DAVID T. LANE, a citizen of the United States, residing at Franklin, in the county of Venango and State of Pennsylvania, have invented or discovered certain new and useful Improvements in Eccentrics, of which improvements the following is a specification.

The invention described herein relates to certain improvements in the construction of eccentrics which rotate in, or approximately in, horizontal planes, whereby the adjacent faces of the eccentric and its strap may be thoroughly lubricated, and that without material waste of the lubricant.

The improvement is more especially adapted for use in oil-well pumping apparatus wherein a number of wells are pumped from a centrally-located motor, power being transmitted from the motor to the several pumps by means of an eccentric arranged on a vertical power-shaft and having its strap connected by radiating connecting-rods to the pumps.

The invention has for its object the arrangement of an oil-receptacle in such relation to the eccentric-strap that the oil will tend to flow therefrom between the adjacent faces of the eccentric and strap.

In the accompanying drawings, forming a part of this specification, Figure 1 is a view, partly in section and partly in elevation, of a vertical power-shaft having my improved eccentric applied thereto; and Fig. 2 is a top plan view of the same.

In the practice of my invention the eccentric 1, which is adapted to be secured in any suitable or well-known manner on the shaft 2, is provided with an oil-receptacle arranged in such relation to the bearing-faces of the eccentric and strap 3 that the oil will flow between such faces or will be drawn between them by capillary action. This receptacle is preferably formed by a rim 4, extending from the lower edge of the eccentric beyond the body of the strap 3, and having an upturned flange 5 along its outer edge. This rim and flange form around the eccentric an annular recess into which the strap or a portion thereof projects, so that the bearing-faces of the eccentric and strap will be operating in oil. It is preferred to form the strap with a flange 6, which will project over the annular oil-receptacle so as to protect the oil from dust and dirt. The annular recess may be made of such a depth that the strap will be entirely submerged in the oil if desired.

The rim 4, in addition to forming a portion of the oil-receptacle, serves as a support for the strap, holding the same in operative relation to the eccentric. The strap is adapted to be connected to the pumps by means of rods 7, which have their inner ends pivotally attached to the strap.

I claim herein as my invention—

1. The combination of an eccentric, provided with an open-topped, annular recess, and a strap surrounding the eccentric, said recess projecting beyond the strap and extending around the eccentric and strap, substantially as set forth.

2. The combination of an eccentric provided with an annular recess and a strap surrounding the eccentric and projecting into the annular recess and provided with a flange extending over the recess, substantially as set forth.

In testimony whereof I have hereunto set my hand.

DAVID T. LANE.

Witnesses:
WM. B. GRIFFEN,
JOHN P. EMERY.