

C. H. MOORE.
SELF LUBRICATING BEARING.
APPLICATION FILED NOV. 21, 1911.

1,064,520.

Patented June 10, 1913.

Fig. 1.

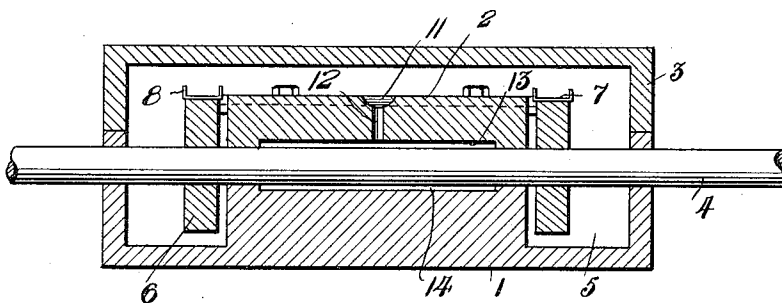


Fig. 2.

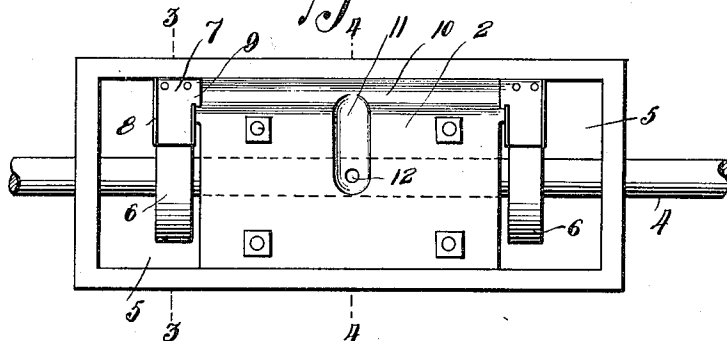


Fig. 3.

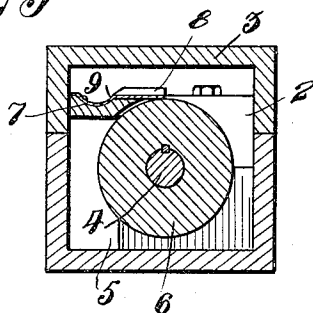
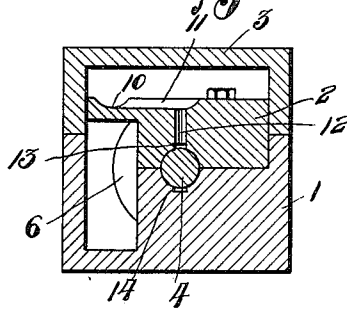


Fig. 4.



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SELF-LUBRICATING BEARING.

1,064,520.

Specification of Letters Patent.

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Application filed November 21, 1911. Serial No. 661,493.

To all whom it may concern:

Be it known that I, CLARENCE H. MOORE, a citizen of the United States, residing at Cincinnati, in the county of Hamilton and State of Ohio, have invented new and useful Improvements in Self-Lubricating Bearings, of which the following is a specification.

This invention relates to bearings and more particularly to self lubricating bearings for rotating shafts.

The object of the invention is to provide the shaft which obviates the use of force feed system or like devices and also release the engineer from applying constant attention to each bearing.

Further objects of this invention will appear as the following specific description is read in connection with the accompanying drawing, which forms a part of this application, and in which:—

Figure 1 is a vertical sectional view through the shaft bearing. Fig. 2 is a top plan view with the cover removed. Fig. 3 is a sectional view on the line 3—3 of Fig. 2. Fig. 4 is a similar section on the line 4—4 of Fig. 2.

Referring more particularly to the drawing, the bearing is constructed of upper and lower halves 1 and 2 connected together in any suitable manner, and a cover 3 which is applied to the upper half to inclose the parts and to prevent the entrance of foreign matter. Each of the parts 1 and 2 are constructed so as to permit the passage and free rotation of the shaft 4 and at each end of the member 1 a recess or depression is formed which produces an oil well 5. Keyed to the shaft and operating within each well are feed wheels 6 which pick up from the well and carry a predetermined quantity of oil according to the size of the wheel to scrapers 7 carried by the upper half. These scrapers have their edges lying upon the wheel and their sides are flanged, as shown at 8, to provide a channel for conducting the

oil. The inner flange of each scraper is cut away on its sides so as to produce a port 9 which communicates with the groove or channel 10 formed in the upper half 2 and concealed by the cover or top 3. This channel communicates with a transverse channel 11 which has its opposite end in communication with a port 12 leading directly to the center of the axle. The port 12 communicates with the longitudinal groove 13 formed in the upper member 2 and a similar groove 14 arranged in the lower member immediately below the groove 13.

In the operation of the device, the wheels pick up the lubricant in the wells 5 and conduct it to the scrapers which remove the same and conduct it to the groove 10, which groove 10 is inclined on opposite ends toward the groove 11 so that the lubricant will run to said groove 11 from either end and be conducted thereby to the port or bowl 12.

What is claimed is:—

A self lubricating bearing comprising a box having a central boss arising therein and forming with the box wells on opposite sides of the boss and a communicating channel between the wells, a shaft resting upon the boss, feed wheels carried by the shaft and operating in the wells, a cap piece secured upon the boss and holding the shaft in position, said cap piece having a flange overhanging the communicating channel and having channels formed in the upper side thereof extending from the wells to the center of the box and through the upper part to the axle, trough-shaped members carried by the flange and resting against the feed wheels to remove the oil therefrom and to conduct the same to the channels, and a top or cover for the box.

In testimony whereof I affix my signature in presence of two witnesses.

CLARENCE H. MOORE.

Witnesses:

RALPH H. INOTT,
LOUIS BOEX.