

UNITED STATES PATENT OFFICE.

SIDNEY HERBERT ARLINGTON JONES, OF FAIRFIELD, NEW SOUTH WALES.

SELF-ACTING LUBRICATOR.

SPECIFICATION forming part of Letters Patent No. 621,096, dated March 14, 1899.

Application filed June 30, 1898. Serial No. 684,890. (No model.)

To all whom it may concern:

Be it known that I, SIDNEY HERBERT ARLINGTON JONES, a subject of the Queen of Great Britain, residing at Fairfield, New South Wales, have invented certain new and useful Improvements in Self-Acting Lubricators for Plumber-Blocks, Machinery and Engine Bearings, Journals for Railway-Trucks, and the Like, of which the following is a specification.

My invention relates to self-acting lubricators for plumber-blocks and machinery and engine bearings; and it consists of the features of construction and arrangement hereinafter pointed out and claimed.

In the drawings, Figure 1 is an end view of the invention, one half of the figure being shown in elevation and the other half in section. Fig. 2 is a section on line A B of Fig. 1. Fig. 3 is a section on line C D of Fig. 1.

The plumber-block is of ordinary construction, comprising upper and lower parts 1 2, held together adjustably by bolts 3 to retain the bearing-brass *b*. This brass has an opening *i'* in its lower side which flares downwardly, and below this opening, extending from one side to the other of the plumber-block, is the recess *f*, which also flares downwardly. The upper opening of the recess is slightly wider than the lower mouth of the flared opening *i'*, and into the recess *f* a box *g* is placed, which is of tapered cross-section and which corresponds with the shape of the recess, and the upper edge of this box, as shown in Fig. 1, lies outside the lips *i*, which extend downwardly from the edge of the flared opening *i'* of the brass. Within the box *g* a ball *k* is placed to float on the body of oil in the box, and this ball is of such a size as to extend up into the opening *i'*, so as to contact with the journal to be lubricated and which bears in the brass *b*. The box is held in place by a wedge *j*, as shown in Fig. 3. The box extends with its ends beyond the ends of the brass, and as its upper side is open it will be seen from Fig. 2 that any surplus oil running from the ends of the

brass will drop into the open top of the box at these projecting ends, and for the purpose of better controlling this surplus oil to the box the brass has grooves *e* at its ends and the edge of the brass is cut away at *e'*, forming openings for the escape of the surplus oil from the grooves *e* back into the box.

I claim—

1. In combination, the plumber-block *a* having a recess therein in addition to the opening to receive the brass, the brass therein having the opening, a box fitting in said recess with its open top communicating with the opening in the brass and the float in the box extending up through the opening in the brass to engage the axle, substantially as described.

2. In combination, the plumber-block having a recess therein, the brass having an opening and having grooves *e* at its ends and openings *e'*, and a box *g* adapted to a recess in the block and having its open ends extending beyond the brass to receive the surplus oil through the openings *e'*, substantially as described.

3. In combination, the plumber-block having a recess therein, the brass having an opening and having grooves *e* at its ends and a box *g* adapted to the recess in the block and having its open ends extending beyond the brass to receive the surplus oil, substantially as described.

4. In combination, the plumber-block having a recess *f*, a brass having a tapered opening in its lower side and having lips *i* depending from the edge thereof, the box *g* adapted to the said recess and a wedge for holding the box in place.

In witness whereof I have hereunto set my hand in presence of two witnesses.

SIDNEY HERBERT ARLINGTON JONES.

Witnesses:

W. WALKER,

T. J. WETHERALD.