

(No Model.)

W. H. KENDALL.
JOURNAL BOX.

No. 568,313.

Patented Sept. 22, 1896.

Fig. 1.

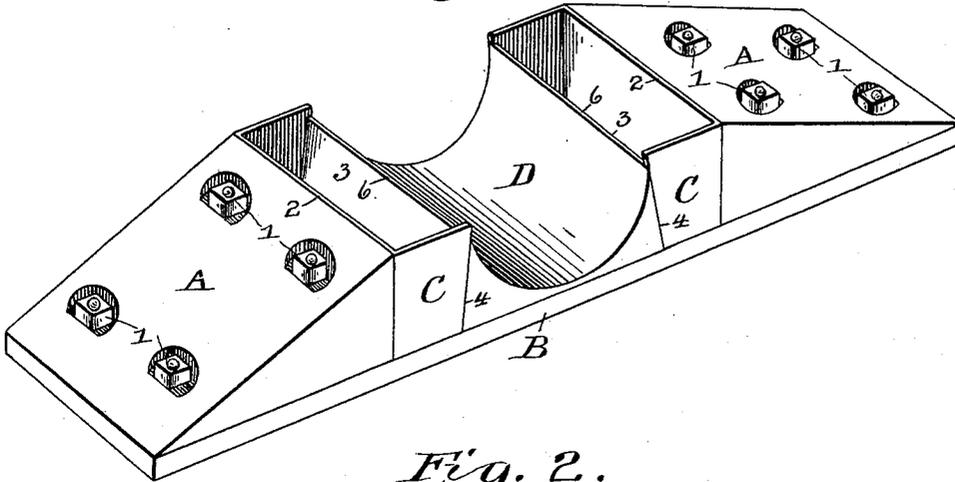


Fig. 2.

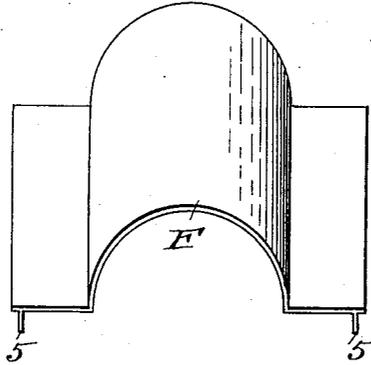
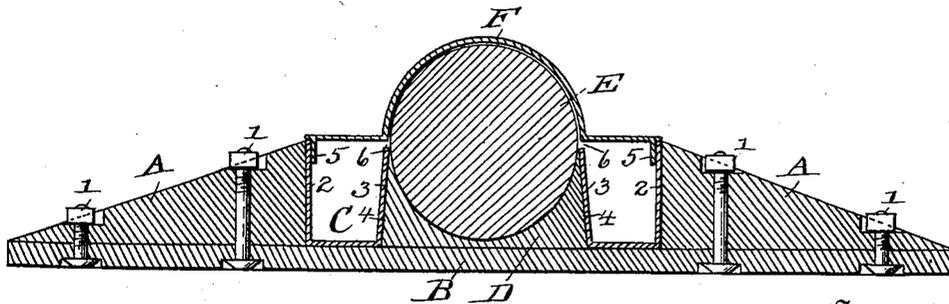


Fig. 3.



Witnesses
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UNITED STATES PATENT OFFICE.

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JOURNAL-BOX.

SPECIFICATION forming part of Letters Patent No. 568,313, dated September 22, 1896.

Application filed February 7, 1896. Serial No. 578,317. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM H. KENDALL, a citizen of the United States, residing at Cleveland, in the county of Cuyahoga and State of Ohio, have invented certain new and useful Improvements in Journal-Boxes, of which the following is a specification, reference being had therein to the accompanying drawings.

My invention relates to an improved journal-box in which the oil is drawn from oil-receptacles to the journal by suction, whereby the use of cotton-waste and other similar packing is dispensed with, thus avoiding danger and delay from hot boxes.

The invention will first be described in connection with the accompanying drawings and then pointed out in the claims.

Figure 1 of the drawings is a perspective view of my improved journal-box with the cap-plate removed. Fig. 2 is a perspective view of the cap-plate. Fig. 3 is a longitudinal vertical section of my improved journal-box, showing a journal therein and the cap-plate in place.

Referring to the drawings, A are abutments, securely bolted to a base-plate B, as at 1.

C C are oil-receptacles made of any suitable metal, the outer wall 2 of each receptacle being vertical and adapted to bear against the abutment, while the inner wall 3 has a slight slope for a purpose hereinafter mentioned.

D is a bearing-block of any suitable material, preferably of Babbitt metal, in which the journal is designed to rest. This block rests on the base-plate B, and its sides 4 slope to conform to the slope of the inner walls 3 of the oil-receptacles. By this construction the receptacles will be securely held in place between the abutments and the bearing-block when the parts are assembled.

E is an axle-journal.

F is a cap-plate adapted to fit over the journal and also cover the oil-receptacles, it being provided near each end on its under side with a depending spring-lip 5, designed when the cap-plate is in position to bear frictionally against the outer wall of the receptacle C, whereby the cap-plate is held in place.

The inner wall 3 of each receptacle termi-

nates a short distance below the cap-plate, leaving a narrow recess 6, through which oil may reach the journal. 55

In operation, assuming oil to have been placed in each receptacle, the revolution of the journal will cause a partial vacuum in the receptacles, and thereby the oil will be drawn from the receptacles to the journal 60 during the revolution of the latter, the direction of revolution of the journal, so far as the vacuum is concerned, being immaterial.

It will be seen that by this construction and the mode of operation no cotton-waste, 65 wicking, or other packing is necessary, nor is there liability to any overheating of the journal-box.

While I have shown and described an oil-receptacle on each side of the bearing-block, the use of but one such receptacle located on one side only of the block would be clearly within my invention. I prefer, however, to use two. 70

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is— 75

1. In a journal-box, the combination, with a base-plate and two abutments removably secured thereto, of a bearing-block resting on the base-plate and adapted to receive a journal, an oil-receptacle on one or both sides of said block, and a cap-plate for the receptacle or receptacles and journal, the receptacle or receptacles being each formed with a recess 85 opening directly on the journal through which recess oil may be conveyed to the journal in the revolution of the latter, substantially as described.

2. In a journal-box, the combination, with a base-plate and abutments removably secured thereto, of a bearing-block resting on said plate and adapted to receive a journal, one or more open-top oil-receptacles held in place by the bearing-block and abutment or abutments, and a cap-plate adapted to cover the journal and receptacle or receptacles, each receptacle having at the upper end of its inner wall a lateral recess opening directly on the journal through which recess oil may 100 pass to the journal.

3. In a journal-box, the combination, with a base-plate and abutments removably secured thereto, of a bearing-block resting on

the base-plate and adapted to receive a journal, the sides of said block having a slight slope, two oil-receptacles, one on each side of the bearing-block, the inner wall of each receptacle having a slope corresponding to the slope of the sides of the bearing-block, so as to be securely held thereby, and a cap-plate for the receptacles and journal having two downwardly - extending spring - lips, each adapted to bear frictionally against the outer wall of each receptacle, the inner wall of each

receptacle terminating a short distance below the cap-plate, forming narrow openings, through which oil may be drawn to the journal, substantially as described, and for the purposes stated.

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

WILLIAM H. KENDALL.

Witnesses:

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