(No Model.)

J. J. WHITE.

JOURNAL BOX LUBRICATOR.

No. 458,816. Patented Sept. 1, 1891.

Fig. 1.

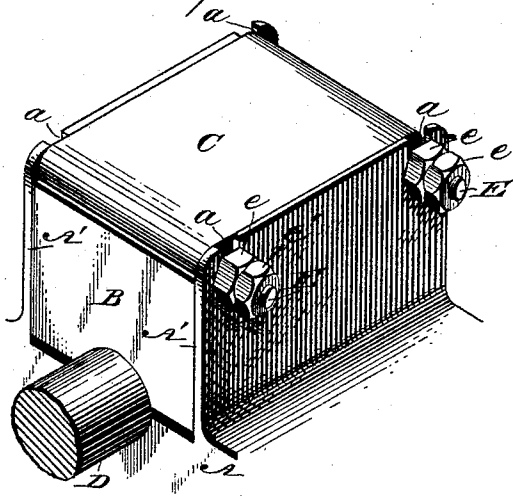


Fig. 2.

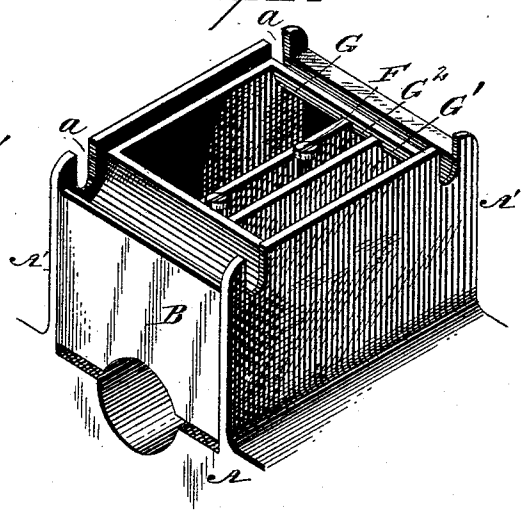


Fig. 3.

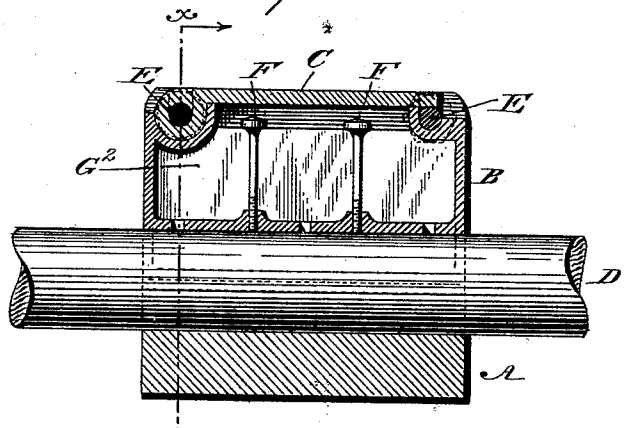
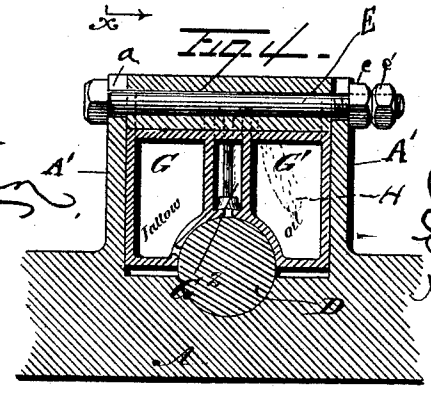


Fig. 4.



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THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

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JOURNAL-BOX LUBRICATOR.

SPECIFICATION forming part of Letters Patent No. 458,816, dated September 1, 1891.

Application filed October 23, 1889. Serial No. 327,941. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH J. WHITE, a citizen of the United States, residing at New Lisbon, in the county of Burlington and State of New Jersey, have invented a new and useful Journal-Box, of which the following is a specification.

My invention relates to improvements in journal-boxes having adjustable caps or oil-receptacles; and the objects of my improvements are, first, to provide a continuously-lubricated bearing for the journal, and, second, to afford facilities for the proper and speedy adjustment of the cap or receptacle upon the journal. I attain these objects by the mechanism illustrated in the accompanying drawings, in which—

Figure 1 is a perspective view of box complete. Fig. 2 is a perspective view showing interior of receptacle, &c. Fig. 3 is a longitudinal sectional view. Fig. 4 is a cross-section through the line X X.

Similar letters refer to similar parts throughout the several views.

D represents the journal or shaft.

A is the box, and A′ A′ are two fixed walls or abutments integral with the box on each side thereof. It is evident that substantially the same results may be accomplished by making these abutments in separate pieces and bolting them to the base of the box; or they may be parted vertically between the bolts, thus making two independent abutments where one A′ is now shown. I prefer, however, to make them integral with the box, as shown.

B is the receptacle containing one or more chambers for oil and tallow with apertures for their distribution to the shaft. The sides of the receptacle B are planed or ground, so that it fits properly between the abutments A′ A′, where it is secured by one or more bolts E E, running substantially at right angles to the shaft D and parallel, or nearly so, with the base of the receptacle B. These bolts may extend entirely through from one side to the other, being firmly secured by nuts *e e′*, as shown; or they may be short bolts reaching through an abutment and one side of the receptacle only. The bolts E E may be inserted through holes or dropped in slots *a a*, as represented in the drawings, their object being to clamp the receptacle B between the abutments A′ A′. The walls or abutments A′ A′ are sufficiently thin to yield in a very slight degree, so that their upper portions may be drawn inward when the bolts E E are tightened and made to clamp the receptacle B between them.

F F are two adjusting-screws, which for convenience are placed in one of the chambers of the receptacle B.

C is the lid of the oil-receptacle B. This lid is hinged on one of the bolts E.

As shown, there are three separate chambers G, G′, and G″ in the receptacle B, one for tallow, one for oil, and one for wicking H to draw oil by capillary attraction from the oil-tank to the central chamber G″, where it passes through suitable apertures to the shaft. The tallow is simply used as a safeguard and acts when the shaft begins to heat from lack of oil or any other cause.

To adjust the receptacle B upon the shaft D, the latter is thoroughly oiled where it enters the journal-box. The receptacle is then quickly lowered to position, where it seats itself upon the oil on the shaft and is at once secured by bolts E E.

It will be observed that the act of securing the receptacle by bolts, as shown, does not affect the accuracy of its adjustment upon the shaft.

In case the oil is too thin or the receptacle too heavy for adjustment, as above described, I use the adjusting-screws F F, which are capable of separating the receptacle and shaft, thus providing a suitable adjustment for the receptacle and holding it until it is securely clamped, when the adjusting-screws are drawn back and remain idle until it again becomes necessary to adjust the receptacle.

Having thus described my invention, what I claim is—

1. A journal-box having clamping walls or abutments, a lubricant-receptacle engaging said walls, and means for drawing said walls upon said receptacle and clamping said receptacle between said walls, substantially as described.

2. A journal-box having clamping walls or abutments, a lubricant-receptacle located between said walls, and the clamping-bolts engaging said walls and clamping them upon said receptacle, substantially as described.

3. A journal-box provided with an oil-receptacle having adjusting-screws adapted to engage the shaft and means for securing said oil-receptacle in its adjusted position, substantially as described.

4. A journal-box provided with clamping-walls, an oil-receptacle located between said walls and provided with adjusting-screws adapted to engage the shaft, and the securing-bolts engaging said walls and clamping the receptacle between them in its adjusted position, substantially as described.

5. A journal-box consisting of a base and a removable part provided with oil-chambers separated from each other by partitions, one of said oil-chambers being in communication with the shaft, and a wick extending from the oil-chamber not communicating with the shaft over the intervening partitions and into the chamber communicating with the shaft, substantially as described.

6. A journal-box having clamping-walls, an oil-receptacle located between said walls and provided with separate chambers, adjusting-screws located in one of said chambers and adapted to engage the shaft, a wick extending from one of said chambers into another communicating with the shaft, and means for clamping said receptacle when in its adjusted position between said clamping-walls, substantially as described.

7. A journal-box having clamping walls or abutments, an oil-receptacle located between said walls, provided with a hinged lid or cover, and bolts engaging said walls for clamping said receptacle between them, one of said bolts forming the hinge-pin for said lid or cover, substantially as described.

8. A journal-box having a part provided with clamping-walls, a removable part adapted to engage said walls, and means for clamping said walls upon said removable part, substantially as described.

9. A journal-box having a part adapted to engage the shaft and provided with clamping-walls, a removable part adapted to fit between said walls, adjusting devices for said removable part, and bolts engaging said walls for drawing them upon said removable part and clamping said removable part in its adjusted position, substantially as described.

10. A journal-box having a part provided with clamping-walls, a removable part adapted to engage said walls, one of said parts being provided with a lubricant-receptacle, and means for drawing said walls upon said removable part and clamping said removable part between said walls, substantially as described.

JOSEPH J. WHITE.

Witnesses.
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