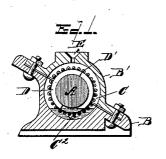
(No Model.)

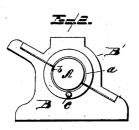
J. LAUHOFF.

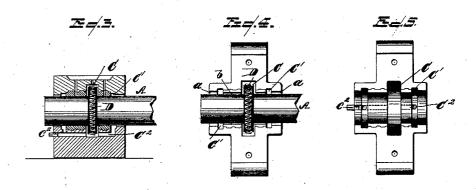
LUBRICATING DEVICE.

No. 333,868.

Patented Jan. 5, 1886.







WITNESSES

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LUBRICATING DEVICE.

SPECIFICATION forming part of Letters Patent No. 333,868, dated January 5, 1886.

Application filed September 21, 1885. Serial No. 177,718. (No model.)

To all whom it may concern:

Be it known that I, Joseph Lauhoff, of Detroit, county of Wayne, State of Michigan, have invented a new and useful Improve-5 ment in Lubricating Devices; and I declare the following to be a full, clear, and exact description of the same, such as will enable others skilled in the art to which it pertains to make and use it, reference being had to the 10 accompanying drawings, which form a part of this specification.

My invention consists of the combinations of devices and appliances hereinafter specified, and more particularly pointed out in the

15 claims.

In the drawings, Figure 1 is a longitudinal section of a shaft or journal and its boxing embodying my invention. Fig. 2 is an end elevation of the same. Fig. 3 is a sectional 20 view of a journal-box illustrating the invention. Fig. 4 is a view of a journal-box with the shaft or journal in its bearing, and with the cap removed. Fig. 5 is a view of the same with the cap and journal or shaft re-25 moved.

The purpose of this invention is to produce a journal-box mechanism which shall serve to maintain the shaft constantly lubricated.

In carrying out my invention, A represents 30 the shaft; B, the lower section of the journal-box; B', its cap.

C is a cavity formed in the box and cap.

C' represents a groove in the interior of the journal-boxing near the ends thereof, and ex-35 tends entirely around said boxing, forming a continuous annular channel for catching any oil that may flow along the journal or the boxing and direct it downward into a duct, C², which conveys it again to the cavity C. A plug, c, serves to permit of admission of a wire or tool for cleaning out the said 40 C.

D represents a collar made in two or more sections, with a groove about the periphery, 45 and D' is a spiral spring of wire, which surrounds the periphery of the collars, and serves to bind them together upon the shaft and to hold them in place. The convolutions of this spring also serve to catch up the oil in the 50 cavity C and carry it over and drip it onto the top of the shaft or journal. A small lon- | tirely around the interior surface of the box-

gitudinal channel, b, is also formed across the Babbitt metal, in order that oil may traverse across this space and be thereby applied directly to the whole length of the journal- 55

I also purpose generally to divide the boxing on an angle, as shown in Figs. 1 and 2, although this is not essential, since the invention is equally applicable to journal-bear- 60 ings where the division is horizontal, and I would have it understood that my invention applies to all forms of journal-boxes.

E represents the filling-cavity with several passages leading down onto the shaft and into 65 the cavity C. It is apparent that this device may be quickly applied to any shaft. The collars D, being divided, may be readily applied to the shaft and fastened by the spiral spring. The ends of the boxing beyond the channels 70 C' are formed of somewhat larger diameter than the bearings proper, as shown at a, in order that oil passing upward along the shaft may not be carried beyond the channels C'.

What I claim is-

1. A lubricating device for journals, consisting of a journal-box having an oil-eavity, and a collar, D, encircling the journal, with a spiral spring, D', upon its periphery, to dip into and lift the oil, substantially as described. 80

2. A lubricating device for journals, consisting of a journal-box having an oil-cavity, and a collar, D', encircling the journal, made in two parts, and secured together by a spiral spring, D, upon the peripheries thereof, said 85 spring also serving to dip into and lift the oil, substantially as described.

3. A journal-box provided with a cavity, C, and groove C' at each side thereof, near the ends of the boxing, extending entirely around the 90 interior surface of the boxing, forming a continuous annular channel, with a returning-duct, C², located in the lower section of the box below the surface thereof, and connecting the channels C' and cavity C, so that oil passing 95 along the shaft or journal will be carried back to the central cavity through said channels and duct, substantially as described.

4. The journal-box provided with an oil-cavity, C, and grooves C, at each side thereof, 100 near the ends of the boxing, and extending ening, forming a continuous annular channel of an enlarged bore, a, between said channels and the ends of the boxing, substantially as and for the purpose described.

In testimony whereof I sign this specification

5. The combination, with the boxing provided with central cavity, C, and grooves C' at each side thereof, near the ends of the boxing, extending entirely around the interior surface of the boxing, forming a continuous

In testimony whereof I sign this specification in the presence of two witnesses.

JOSEPH LAUHOFF.

Witnesses:

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