J. S. EGGLESTON.

Shaft-Hangers.

No. 150,947. Patented May 19, 1874.

Fig. 1.

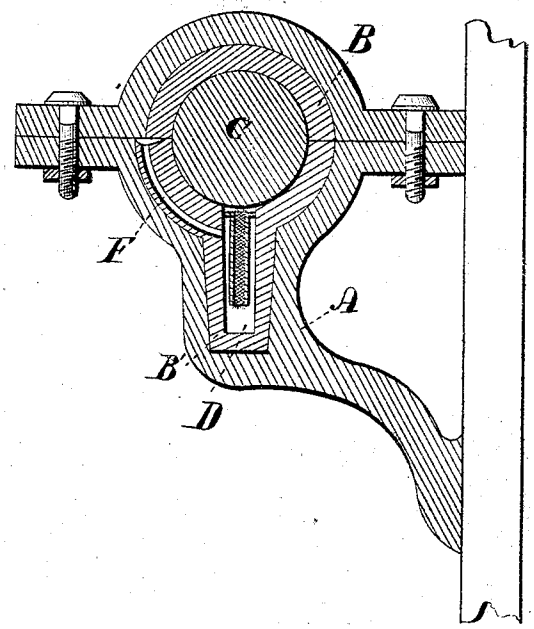
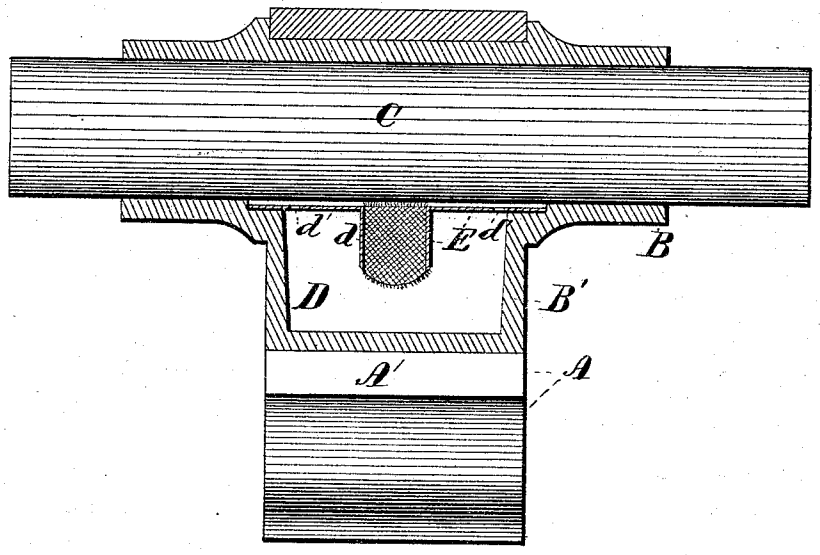


Fig. 2.



WITNESSES.

W. C. Norman,

R. M. Barr

INVENTOR.

Jesse Scott Eggleston

By Lemp & Lemp

Attorneys.

UNITED STATES PATENT OFFICE.

JESSE SCOTT EGGLESTON, OF AUBURN, NEW YORK.

IMPROVEMENT IN SHAFT-HANGERS.

Specification forming part of Letters Patent No. **150,947**, dated May 19, 1874; application filed April 17, 1874.

To all whom it may concern:

Be it known that I, JESSE SCOTT EGGLESTON, of Auburn, in the county of Cayuga and State of New York, have invented certain new and useful Improvements in Lubricating Device for Shafts, &c.; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make and use it, reference being had to the accompanying drawings, which form part of this specification.

My invention relates to a lubricating device for the journals of shafts; and consists in the combination and arrangement of certain devices for supplying oil to the bearing portions of shafts, &c., as hereinafter more fully described.

In the drawings, Figures 1 and 2 represent vertical transverse sectional views, taken at right angles to each other, of a shaft-hanger with my invention applied.

A represents a shaft-hanger, provided with the journal-box B, which incloses the shaft C. The lower portion B′ of the journal-box B is constructed with an inclosed box or cavity, D, which fits into a recess, A′, in the shaft-hanger A. This box or cavity D may, if preferred, be constructed in one piece with the lower half of the journal-box B, or it may be made of separate parts, as desired. E is the flat cap-plate of said cavity, provided with the wick-tube *d* and small holes or openings *d′*. F is an oil-supply tube or passage leading into the oil-cavity D.

The top section of the journal-box B is removed, and oil supplied to the oil-cavity D through the supply-tube F. The wick (one or more may be used) in the wick-tube *d* of the cap-plate E, by capillary attraction, draws the oil from the cavity D, and distributes it over the wearing-surfaces of the journal and axle. Any surplus oil in the journal-box, by the pressure of the shaft upon it, is caused to flow back into the oil-cavity through the small holes or openings *d* in the cap-plate E; or any oil that may be carried up by the revolving of the shaft escapes between the parts of the journal-box, and is returned to the oil-cavity through the supply-pipe F, this supply pipe or passage being always placed on the proper side of the shaft, so as to be in a position to receive any oil that is brought up by the shaft as it revolves.

By this arrangement herein described the journals of shafts, &c., are thoroughly and equally supplied with a lubricant, and the escape of oil from the ends or sides of the journal-box is prevented, consequently obviating the necessity of a drip-cup, and the parts are always kept much cleaner and in better working order.

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

In combination with the lower section of a journal-box of a shaft-hanger, the oil-cavity D, flat cap-plate E, wick-tube *d*, and lateral openings *d′*, substantially as set forth and shown.

In testimony that I claim the foregoing I have hereunto set my hand and seal this 14th day of April, 1874.

JESSE SCOTT EGGLESTON. [L. S.]

Witnesses:
MOSES M. ROBINSON,
HENRY ROGERS.