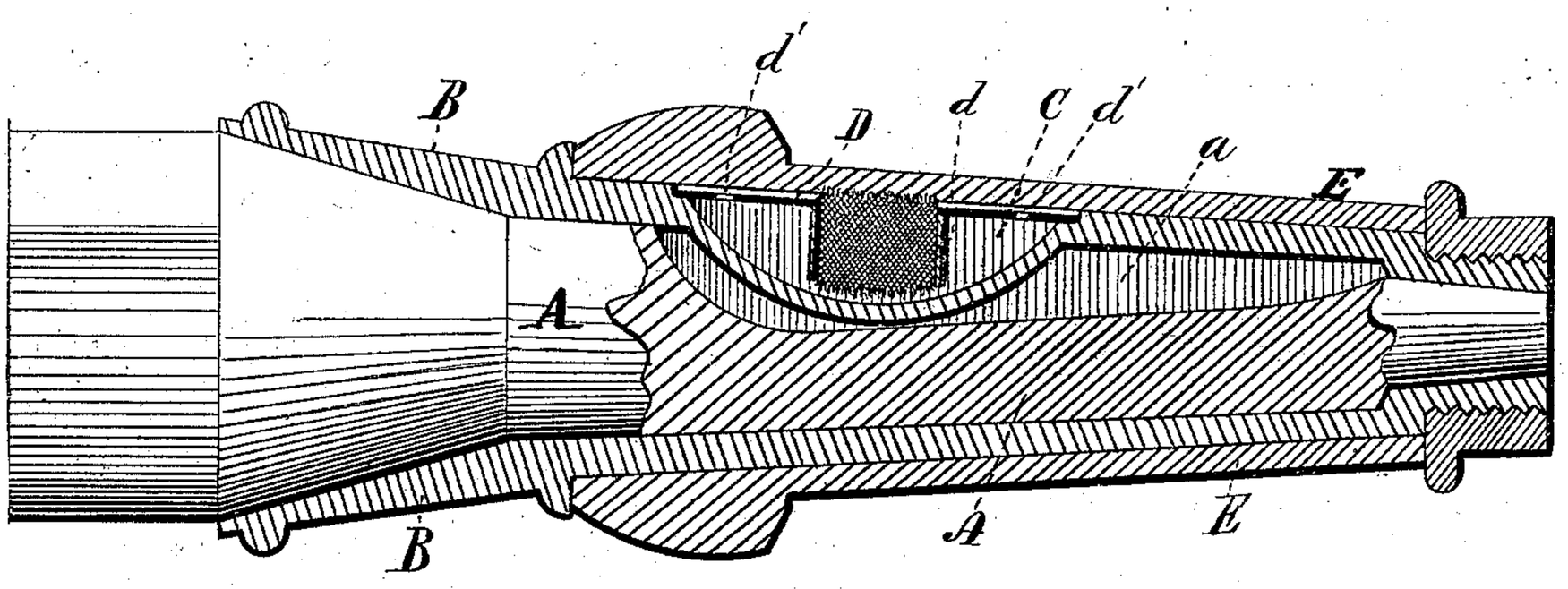
J. S. EGGLESTON.

Lubricating Axles for Vehicles.

No. 150,406. Patented May 5, 1874.



WITNESSES.

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UNITED STATES PATENT OFFICE.

JESSE S. EGGLESTON, OF AUBURN, NEW YORK, ASSIGNOR OF PART OF HIS RIGHT TO EDWARD H. KELLOGG AND DAVID W. BARTLETT, OF NEW YORK CITY.

IMPROVEMENT IN LUBRICATING-AXLES FOR VEHICLES.

Specification forming part of Letters Patent No. **150,406**, dated May 5, 1874; application filed March 20, 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 the Axles of Vehicles, &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, intended as an improvement upon the device originally patented by me January 2, 1872, No. 122,374, and reissued June 24, 1873, No. 5,466. The invention relates more particularly to means for lubricating the journals in vehicles, and other localities where motion is had around or upon a non-revolving shaft; and consists in the arrangement of a cap-plate within the top portion of a cavity or recess formed in the upper portion of a box that incases the journal of the axle or shaft in such a manner as to cover the lubricant cavity, and leave a secondary chamber between the top of the said cap-plate and the inner bearing-surface of the box or case. Through the said cap-plate is suspended a wick-tube, which is provided with one or more wicks that, by capillary attraction, draws the oil from the cavity, and distributes it between the wearing-surfaces, the cap-plate being also provided with small holes or openings at its sides, in order that the unconsumed oil from the upper part of the box may flow back into the oil-cavity caused by the pressure upon the box. In my former patent and its reissue are shown a similar oil-cavity, cap-plate, wick-tube and openings above mentioned, situated in corresponding relation to the internal or wearing-surface of the box; but in them the oil-cavity is combined with the journal of the axle directly, whereas, in the present invention, the cavity is combined with the incasing-box that slips upon the journal of the axle.

In the drawing is represented a longitudinal sectional view of my improvement, as adapted to a carriage-axle, pipe-box, or skein, in which—

A is the journal of an axle, provided with a longitudinal slot, *a*, to admit of the shell B being slipped thereon. B is a shell or box, that is slipped over the wood under shell or axle A. Suspended from the top portion of this box (preferably in a single piece with the box) is the oil cavity or recess C. D is the flat cap-plate of the said cavity, provided with the wick-tube *d*, and small holes or openings *d'*. E is the boxing of the hub.

The advantages of the said invention over the improvement formerly patented, are various, but among them the most important are, first, the ease with which worn or broken parts can be renewed; second, the whole piece can be made in a single casting, and can thus be made readily as an article of manufacture.

What I claim as my invention is—

In combination with the axle A, the box or shell B, provided with the oil-cavity C, the cap-plate D and wick tube *d*, substantially as and for the purpose described.

In testimony that I claim the foregoing I have hereunto set my hand this 20th day of February, 1874.

JESSE SCOTT EGGLESTON.

Witnesses:
CALVIN N. LETTRO,
MORTIMER J. AUSTIN.