

Bergner & Netzow.
Lubricating Journal.
Nº 90,223. Patented May 18, 1869.
Fig. 1.

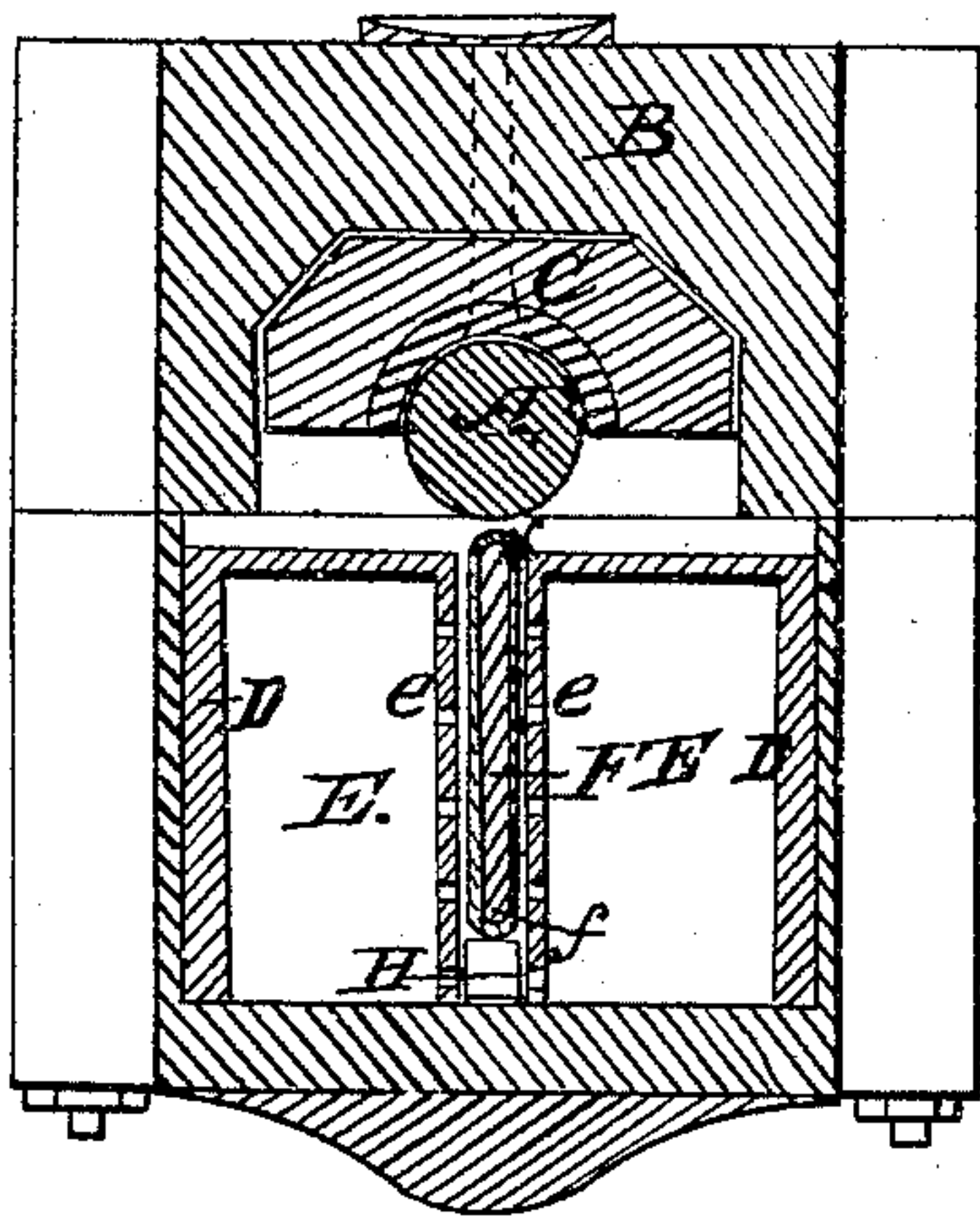
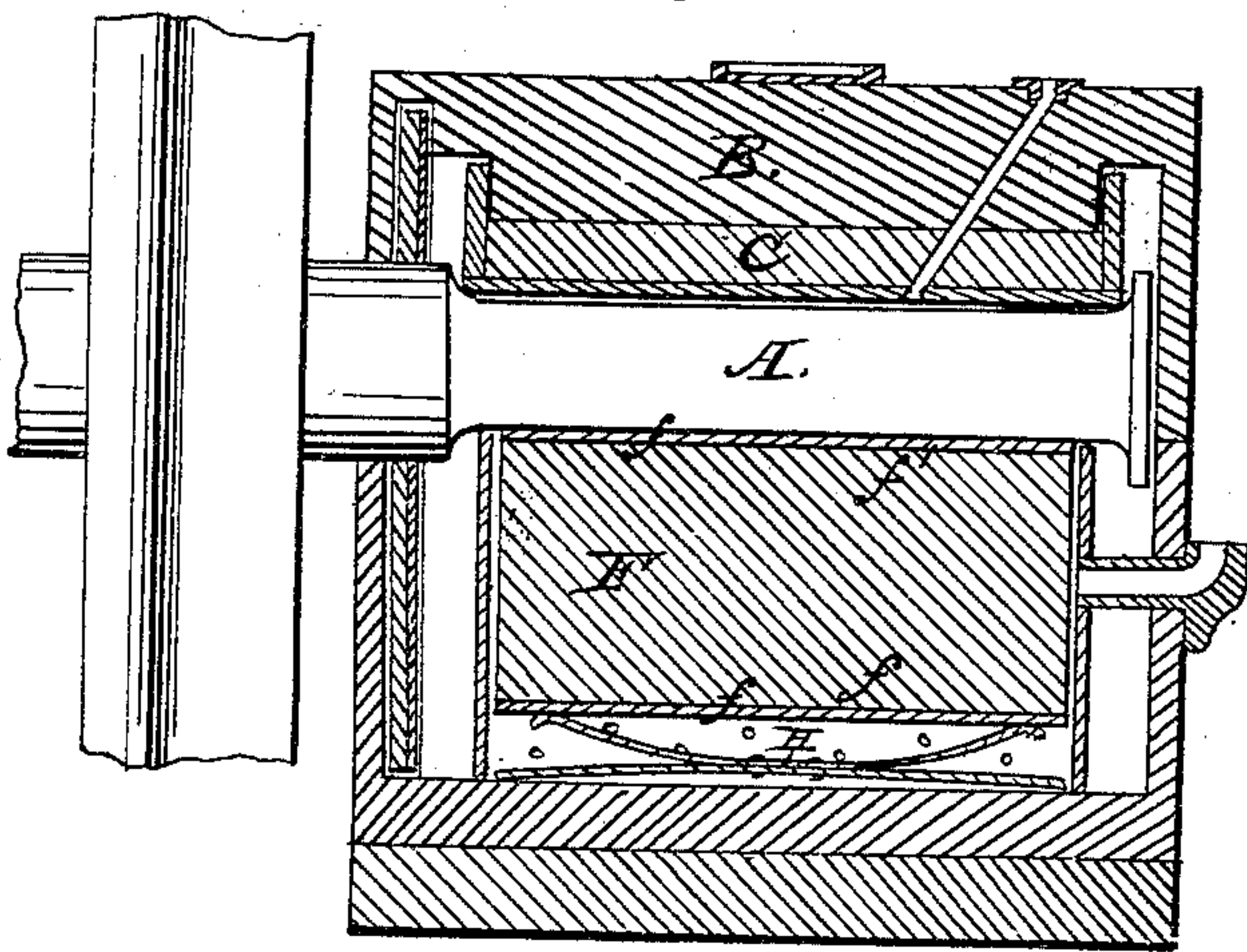


Fig. 2.



Witnesses.
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M. BERGNER AND OTTO NETZOW, OF BALTIMORE, MARYLAND, ASSIGNORS TO THEMSELVES AND JOSEPH LICHTENSTEIN.

Letters Patent No. 90,223, dated May 18, 1869.

IMPROVEMENT IN LUBRICATORS.

The Schedule referred to in these Letters Patent and making part of the same

To all whom it may concern:

Be it known that we, M. BERGNER and OTTO NETZOW, of the city and county of Baltimore, and State of Maryland, have invented a new and useful Improvement in Lubricators for Car-Axles, Shafting, &c.; and we do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

Figure 1 is a transverse vertical section.

Figure 2 is a longitudinal vertical section.

The nature of our invention consists in a peculiar arrangement of parts, by which a shaft or axle may be constantly supplied with a sufficient quantity of lubricating-oil without perceptibly increasing the amount of friction, and at the same time may be kept clean and free from dust and dirt.

To enable others skilled in the art to which our invention appertains, to make and use the same, we will proceed to describe its construction and operation.

In the drawings—

A represents the journal of a car or other axle, and B, the journal-box in which it works.

C is a block, which forms a bearing-surface for the journal, and may be faced with brass, Babbit metal, or other suitable material.

D is an oil-chamber, divided into two compartments, E E, which are separated by partitions *e e*, said partitions being perforated, so as to allow the escape of oil from the compartments E E, and being a sufficient distance apart to admit the device for supplying oil to the journal.

Said device consists of a plate, F, of suitable mate-

rial, covered with a fibrous fabric, *f*, woven in a manner and form similar to the wick of an argand lamp, so as to surround said plate longitudinally, said plate and fibrous substance working freely in the space between the perforated partitions *e e*, and being kept constantly in contact with the journal by means of a spring, H, which rests upon the bottom of the space between the partitions *e e*, and the tension of which is just sufficient to cause a gentle but constant pressure of the fibrous material against the journal.

The fibrous material, or wick *f*, acting by capillary attraction, draws the oil from the chambers E E, and, being kept constantly in contact with the axle, it keeps the axle constantly supplied with oil.

The said wick *f* being woven in the form hereinbefore described, and surrounding the plate F longitudinally, said wick can be occasionally turned, so as to present a fresh portion to the axle, thus preventing it from being worn through by friction.

Having thus described our invention,

What we claim as new, and desire to secure by Letters Patent, is—

The construction and arrangement of the journal-box, having the double-chambered oil-box E E, with perforated partitions *e e*, between which slides the wick-holder F, bearing the adjustable wick *f*, the holder F being supported by the spring H, all as shown and described.

M. BERGNER.
OTTO NETZOW

Witnesses:

JOHN LORZ,
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