

A. LOFDAHL.
LUBRICATING DEVICE.
(Application filed Dec. 30, 1901.)

(No Model.)

Fig. 1.

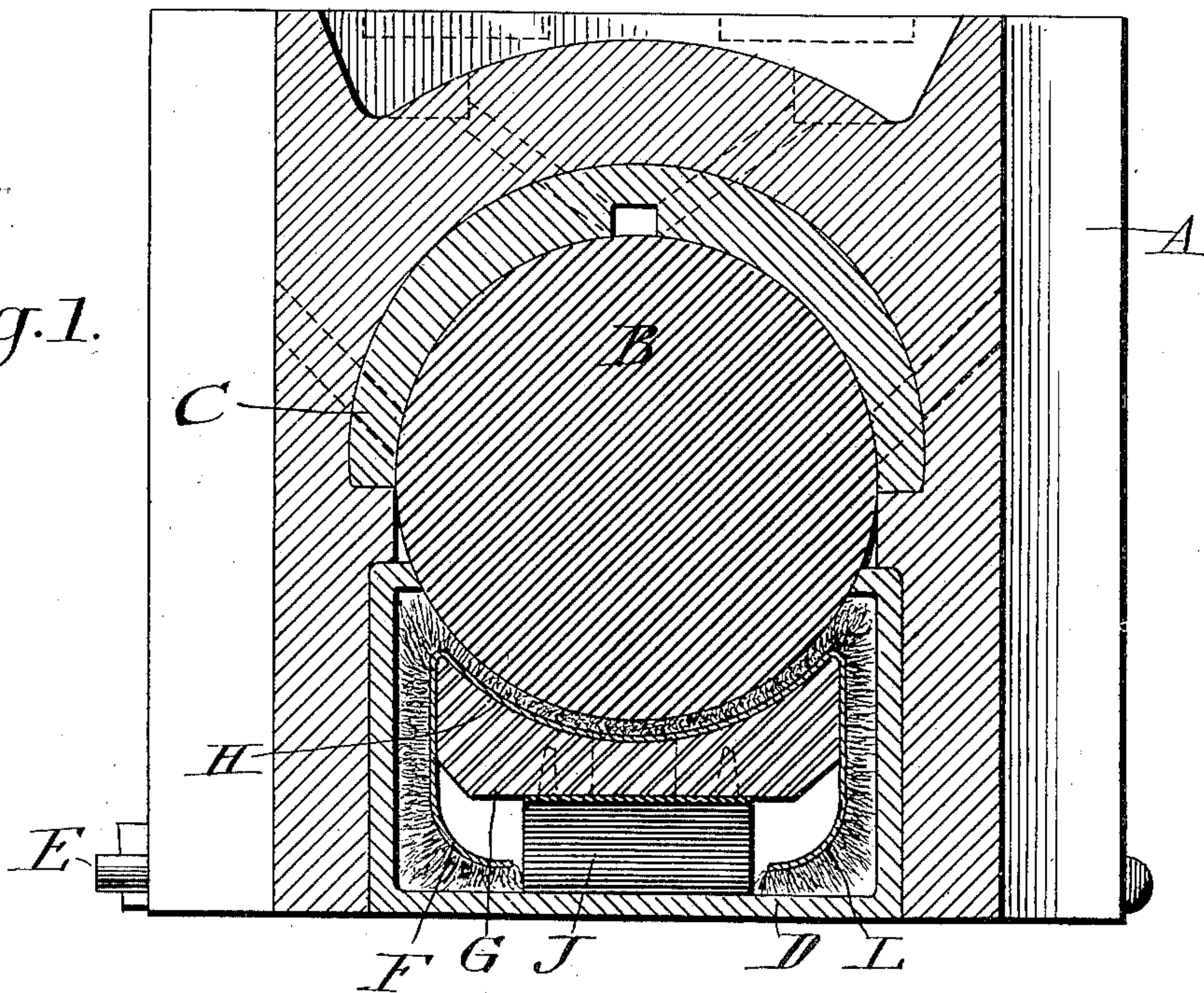


Fig. 2.

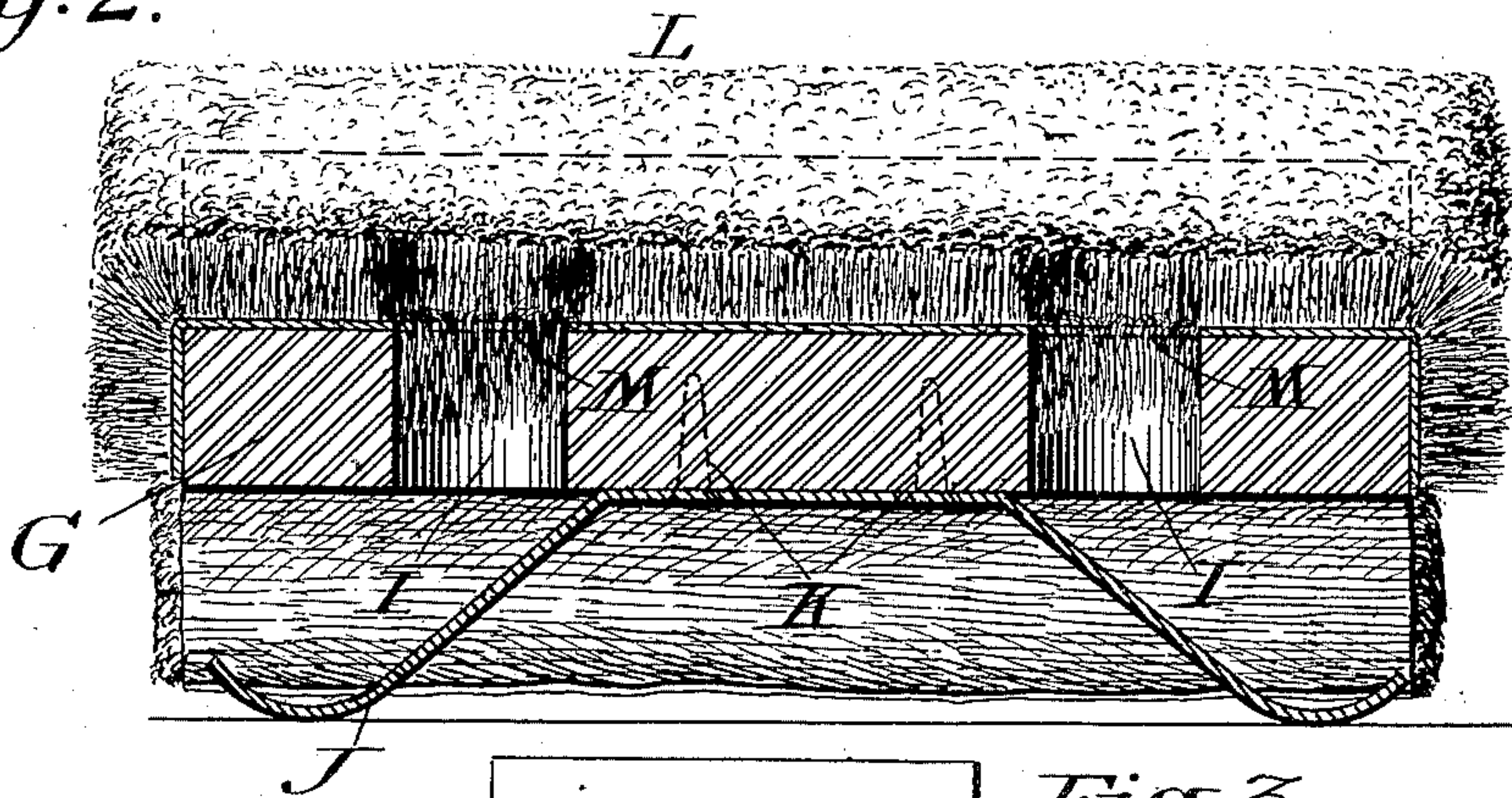
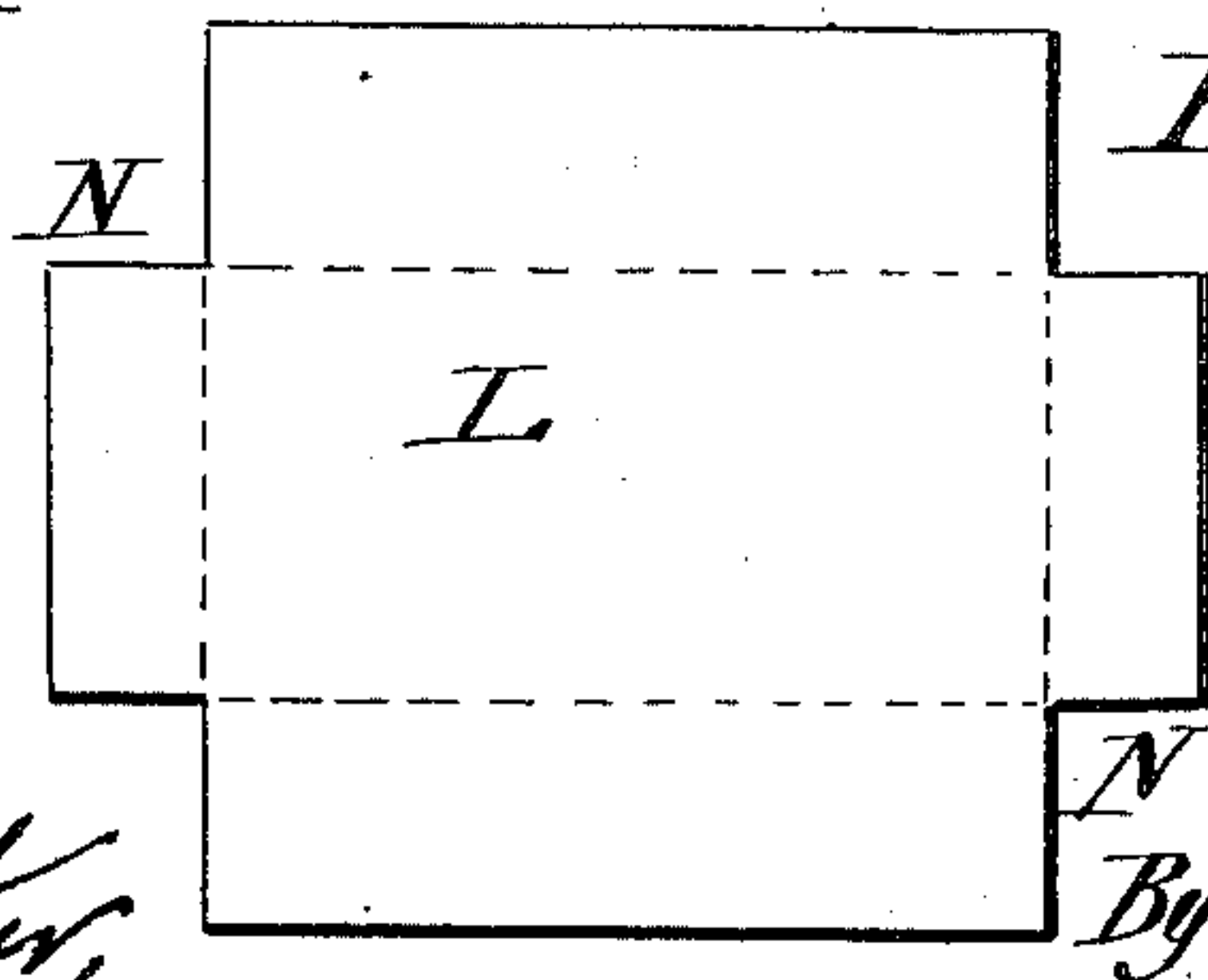


Fig. 3.



Witnesses:

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UNITED STATES PATENT OFFICE.

ANDREW LOFDAHL, OF ELKHART, INDIANA.

LUBRICATING DEVICE.

SPECIFICATION forming part of Letters Patent No. 701,364, dated June 3, 1902.

Application filed December 30, 1901. Serial No. 87,733. (No model.)

To all whom it may concern:

Be it known that I, ANDREW LOFDAHL, a citizen of the United States, residing at Elkhart, in the county of Elkhart and State of Indiana, have invented new and useful Improvements in Lubricating Devices, of which the following is a specification.

My invention relates to improvements in lubricating devices for shafts or axles, more especially the axle-bearings in journal-boxes, and has for its object a device economic in its character and efficient in operation; and for this purpose it consists in the combination and arrangement of parts and constructions, as hereinafter set forth and claimed.

In the accompanying drawings, which form a part of this specification, Figure 1 represents a vertical cross-section of a journal-box with a lubricating device embodying my invention. Fig. 2 represents a longitudinal vertical section of the lubricating device. Fig. 3 represents a top or plan view of the sheepskin or material covering the lubricating frame or base.

Similar letters indicate like parts in the several figures.

A designates a journal-box of a locomotive or car truck, and B the journal, having bearings in said box.

C is the brass or upper bearing for the journal, and D the cellar the upper ends of the side walls of which fit the lower surface of the journal. The said cellar is hollow, so as to receive the lubricator F, and is formed with an open top, into which the journal B extends, and a closed base, so as to hold the lubricating material. The lubricator F consists of a base G, a sheepskin covering L, and a plate-spring J.

The base G is preferably of wood, having a recessed upper face H, curved in cross-section, and is provided with openings or holes forming vertical passages I between the lower and upper faces of said base.

The sheepskin covering L, which is perforated at M M, is cut out at its corners, as shown in Fig. 3, forming projecting portions

N N on its sides and ends, adapted to depend below the base G and extend into the lubricating material placed in the cellar D, so that said lubricating material may more readily reach or be conveyed to the upper surface of the sheepskin adjacent the surface of the journal.

The plate-spring J, having a central flat portion secured to the base G by the screws K or in any other suitable manner and its depending ends bearing against the base-wall of the cellar D, forces the base G, with its sheepskin covering, into contact with or close proximity to the journal, so that the latter in its revolutions is freely oiled by the lubricating material conveyed from the cellar by the sheepskin L, which, owing to its character, absorbs and transmits the same, whereby the journal-bearings are lubricated.

It will be seen that the device described is simple in character, easily constructed, cheap in first cost, readily repaired, and efficient in operation.

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

The combination with a journal and journal-box, of a base-piece G, having a perforated and recessed upper face curved in cross-section to match the under convex surface of the journal; a perforated sheepskin covering L cut out at the corners to form projecting portions at the sides and ends which portions depend below the sides and ends of the base-piece into the bottom of the journal-box; and a spring secured to the lower surface of the base-piece and bearing against the bottom of the journal-box for pressing the sheepskin and base-piece upwardly against the journal.

In testimony whereof I affix my signature in presence of two witnesses.

ANDREW LOFDAHL.

Witnesses:

RICHARD BARRATT,
LOUIS A. DENNERT.