

(No Model.)

F. CROCKER, Sr.
Device for Lubricating Journals in Machinery.
No. 226,840. Patented April 27, 1880.

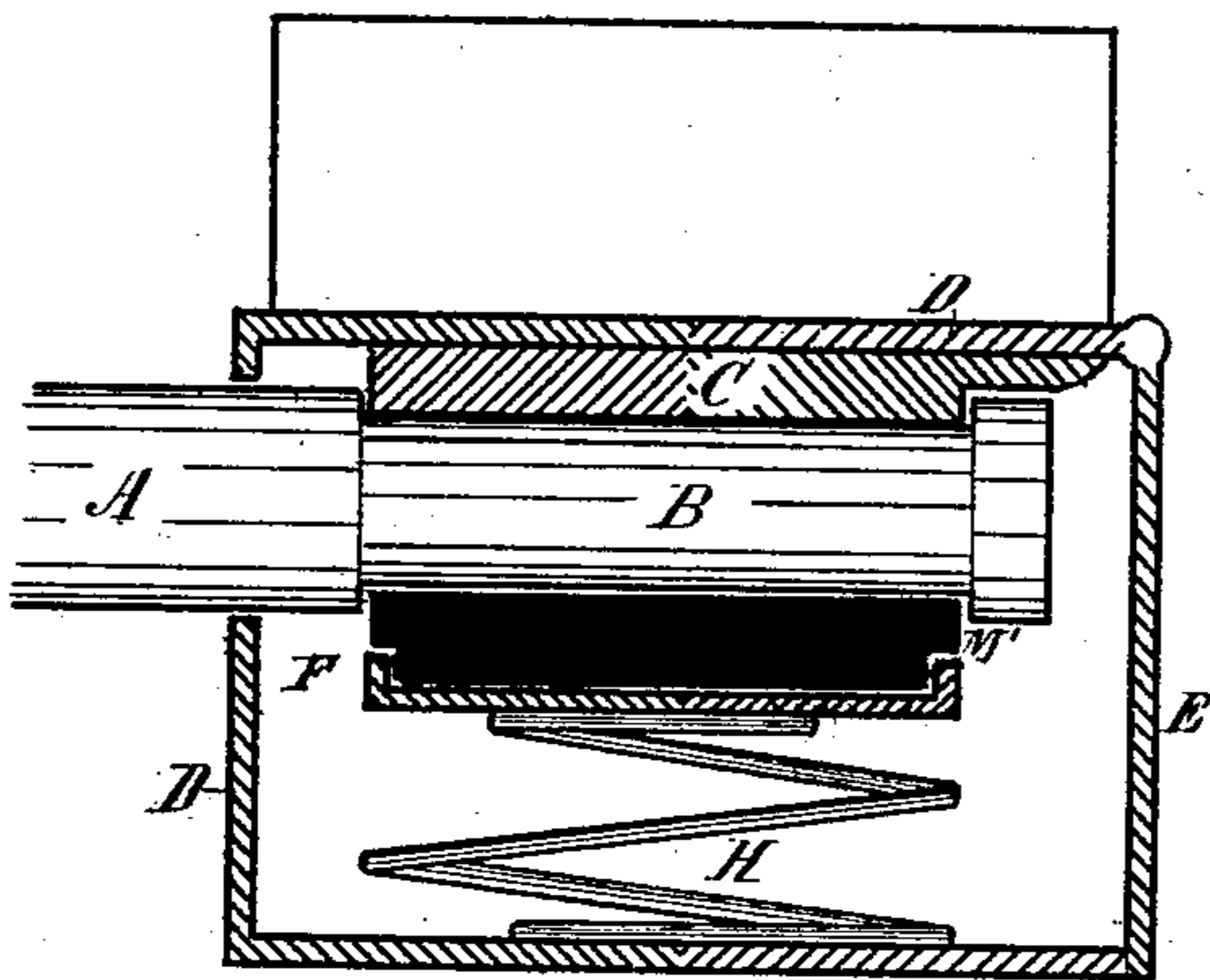


Fig. 1.

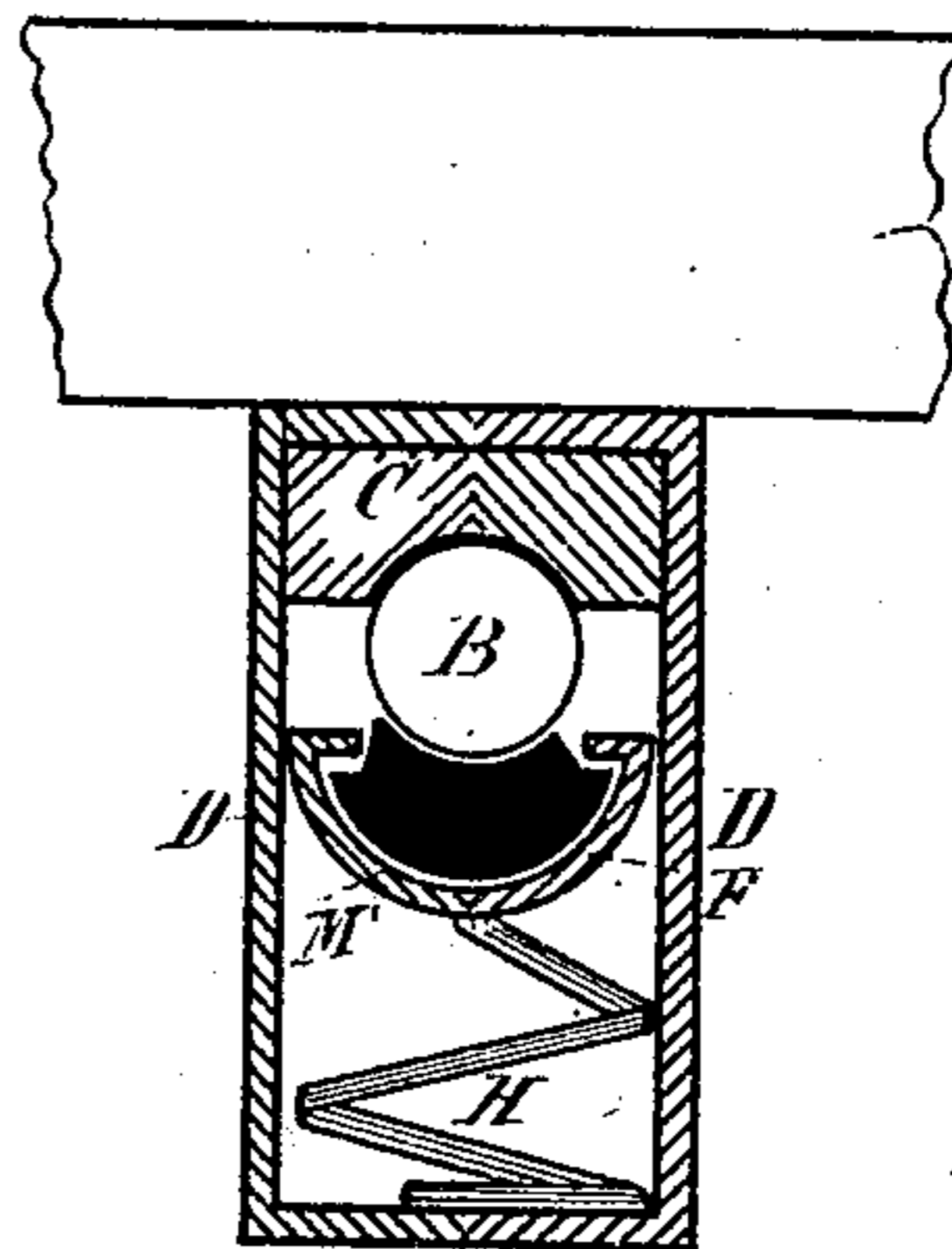


Fig. 2.

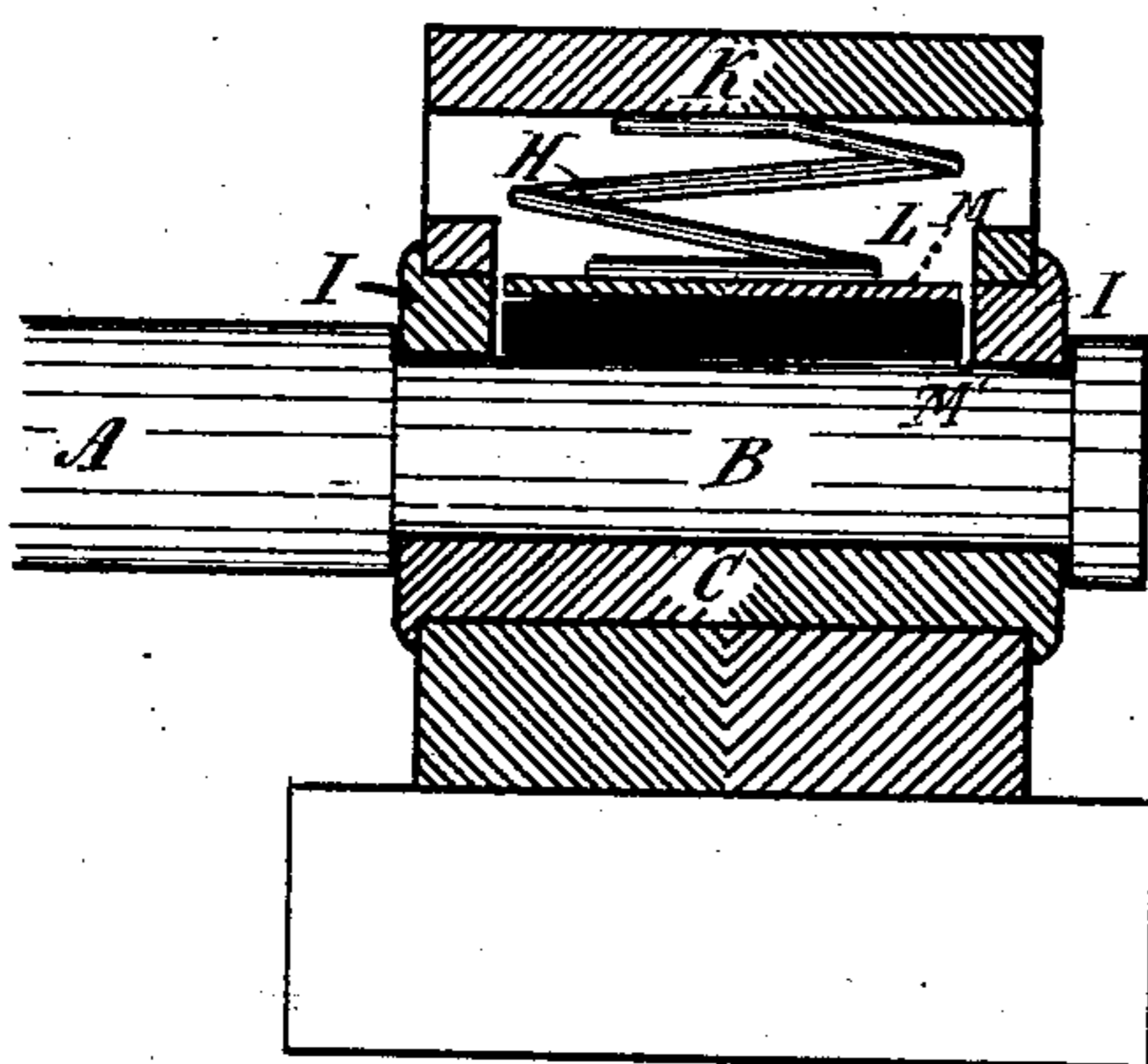


Fig. 3.

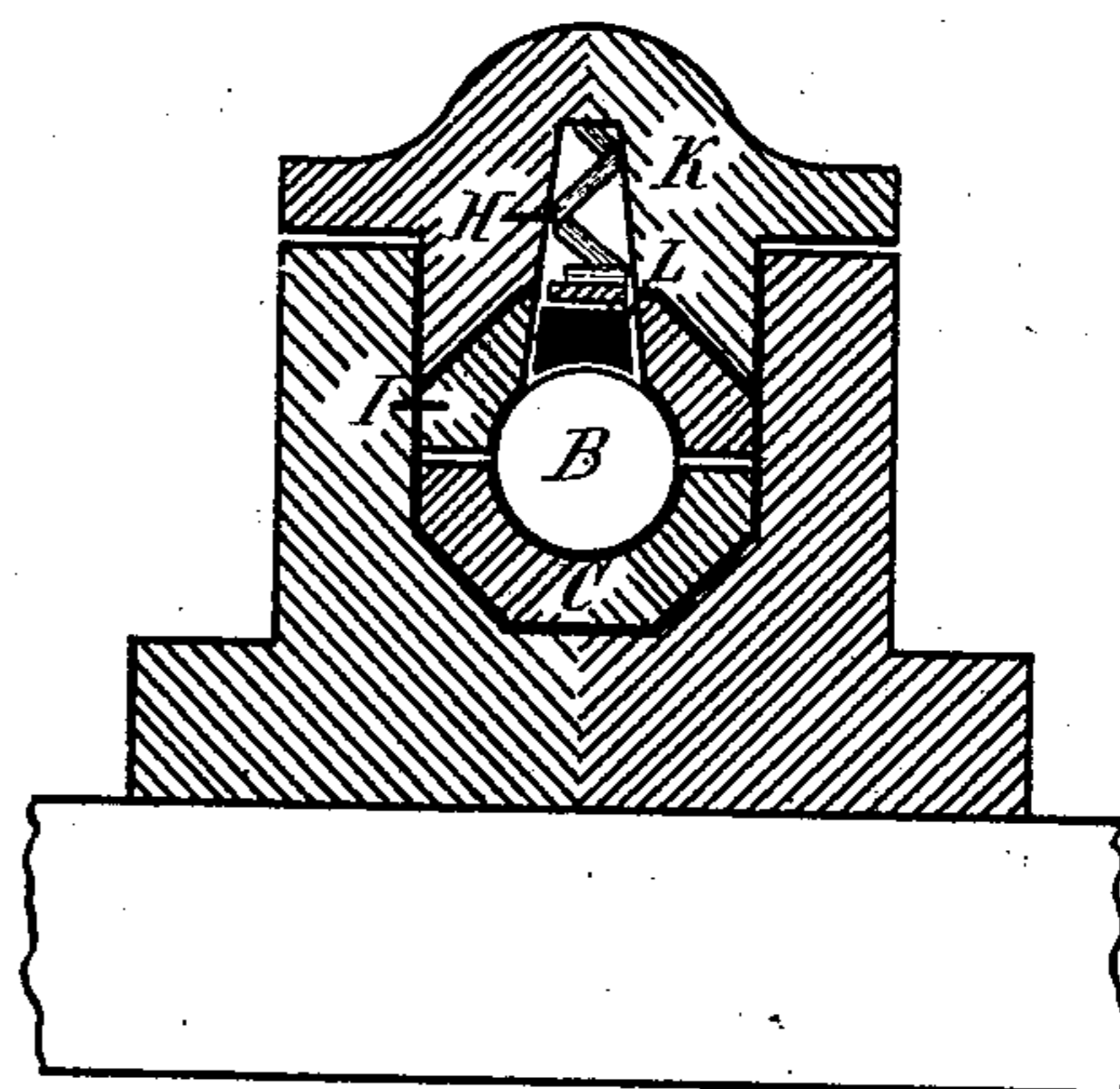


Fig. 4.

J. A. Dover
J. W. Graham } Witnesses.

Frederick Crocker Sr.
By Joseph Smith, } Inventor.
Atty.

UNITED STATES PATENT OFFICE.

FREDERICK CROCKER, SR., OF OLEAN, NEW YORK, ASSIGNOR OF ONE-HALF
OF HIS RIGHT TO CHARLES D. ROBBINS, OF TITUSVILLE, PA.

DEVICE FOR LUBRICATING JOURNALS IN MACHINERY.

SPECIFICATION forming part of Letters Patent No. 226,840, dated April 27, 1880.

Application filed March 26, 1880. (No model.)

To all whom it may concern:

Be it known that I, FREDERICK CROCKER, Sr., of Olean, Cattaraugus county, State of New York, have invented a new and useful
5 Improvement in Lubricating Journals in Machinery, of which the following is a specification.

It has been found by experience that the raw fat of animals—as beef-suet, raw pork,
10 &c.—possesses certain lubricating qualities which are lost in treating or trying out, and that if the raw fat is placed in the oil-cups as commonly used the bearings must become heated sufficiently for the oil to drip from the
15 fat, this heat causing abrasion of the journals.

The object of my invention is to enable me to apply the raw lubricant directly to the journal, thus requiring no heat to extract the lubricating qualities. I attain this object by
20 the mechanism illustrated in the accompanying drawings, in which—

Figure 1 is a longitudinal, and Fig. 2 a cross, section of a railroad-car journal where the weight is supported by the shaft. Fig. 3 is a
25 longitudinal, and Fig. 4 a cross, section of a journal where the shaft is supported by the bearing and held in place by a box and cap.

Similar letters refer to similar parts in the different figures.

30 A is the shaft; B, the journal; C, principal bearing; D, Figs. 1 and 2, a box inclosing the whole bearing. The outer end, E, of this box is hinged or bolted, so that it can be removed at pleasure.

35 F is a semi-cylindrical cup, the length of and inclosing the lower half of the journal B.

This cup, being filled with the lubricant M', is held in position and constantly pressed against the journal by the spring H operating between the cup and the bottom of the box D. 40

In Figs. 3 and 4, I is the upper box, holding the journal B in place. K is the cap. L is a longitudinal slot in the under part of the cap K, and extending downward through the box I to the journal. This slot is made wider to- 45 ward the journal to prevent the lubricator from clogging or becoming packed.

M is a follower working in the slot L. The space between the follower M and the journal B being filled with the lubricant, the follower 50 M (and the lubricant) is pressed downward by the spring H and the lubricator held against the journal B.

I make no claim for the use of raw animal fat as a lubricant in the oil-cups in common 55 use, or not in immediate contact with the journal, being aware that it has long been used for such purposes.

What I do claim as my invention is—

As a device for lubricating inclosed jour- 60 nals of machinery, the cup F or follower M, the space between the cup or follower and the journal being filled with raw or unrendered animal fat, the whole being held against or in contact with the journal B by spring H, sub- 65 stantially as described, and for the purpose herein set forth.

FREDERICK CROCKER, SR.

Witnesses:

ARTHUR T. IRVINE,
ANDREW B. HOWLAND.