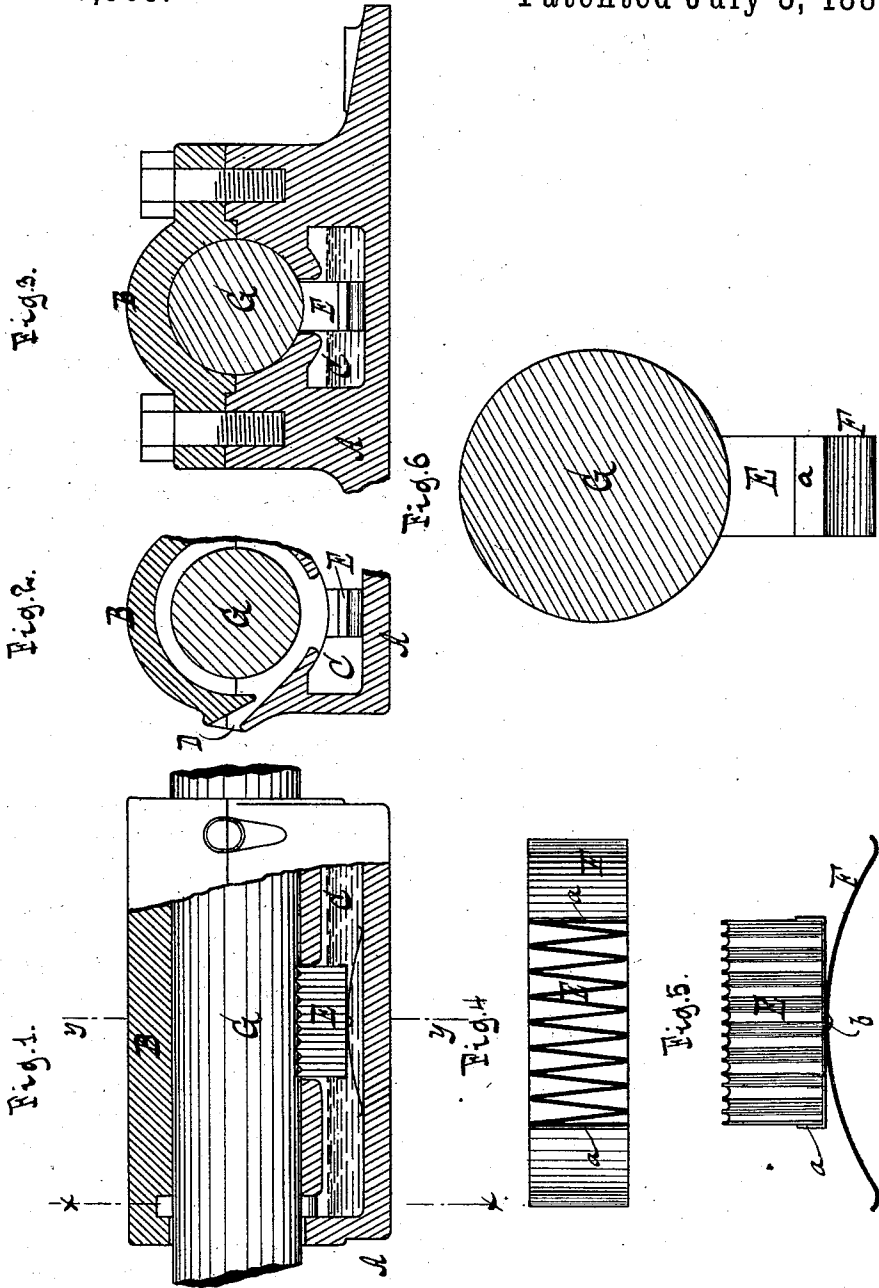


(No Model.)

F. BROWN.  
LUBRICATOR FOR JOURNALS.

No. 280,569.

Patented July 3, 1883.



Witnesses  
*Otto Schuff* and  
*William Miller*

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by  
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attys

# UNITED STATES PATENT OFFICE.

FELIX BROWN, OF NEW YORK, N. Y.

## LUBRICATOR FOR JOURNALS.

SPECIFICATION forming part of Letters Patent No. 280,569, dated July 3, 1883.

Application filed April 28, 1883. (No model.)

To all whom it may concern:

Be it known that I, FELIX BROWN, a citizen of the United States, residing at New York, in the county and State of New York, have invented new and useful Improvements in Lubricators for Journals, of which the following is a specification.

This invention relates to a journal-box which is provided in its bottom with an oil-chamber, from which the oil or other lubricating material is carried up to the journal by a zigzagged strip of sheet metal. This strip of sheet metal is exposed to the action of a spring, which retains its top edge in contact with the journal.

The precise construction of my lubricator is pointed out in the following specification and illustrated in the accompanying drawings, in which—

Figure 1 represents a longitudinal vertical section. Fig. 2 is a transverse vertical section in the plane  $x x$ , Fig. 1. Fig. 3 is a similar section in the plane  $y y$ , Fig. 1. Fig. 4 is a plan or top view of the lubricating device detached, on a larger scale than the previous figures. Fig. 5 is a side elevation of the same. Fig. 6 is a front elevation of the same.

Similar letters indicate corresponding parts.

In the drawings, the letter A designates a journal-box, which is provided with a cap, B.

In the bottom of the box A is a chamber, C, for the reception of oil or other lubricating material, and in its side is formed a channel, D, through which the oil can be poured into the chamber C. In this chamber is situated my lubricating device E, which consists, essentially, of a zigzagged strip of sheet metal, which may be placed directly upon the bottom of the oil-chamber, or which may be mounted upon a spring, F, as represented in the drawings.

The upper edge of the lubricator is concave, as shown in Figs. 3 and 6, and it bears against the journal G, which has its bearing in the box A.

When the lubricator is not mounted on a spring, its height ought to be such that when it is placed on the bottom of the oil-chamber its upper edge is in contact, or nearly so, with the journal; but if it is mounted on a spring, this spring will retain its upper edge in close contact with the journal.

In order to allow the lubricator E to come

in contact with the journal, an opening is made in the roof of the oil-chamber.

The object of the zigzagged strip of sheet metal is to raise the oil from the oil-chamber to the journal by capillary attraction; and I have found that by such strip the oil rises to a height of three or four inches without difficulty, which is sufficient for all practical purposes. Furthermore, my lubricator is not liable to clog up, and it carries oil to a journal as long as its lower edge is immersed in the oil. For this reason my lubricator is superior to wicks, and, besides this, it can also be made at less cost than lubricators where wicks are used, since the wicks require wick tubes or holders, while my zigzagged strip forms the wick and the holder all in one. The connection between the zigzagged strip and the spring is made by a base-plate,  $a$ , which overlaps the bottom edges of the strip and is soldered thereto, and which is fastened to the spring by a rivet,  $b$ . By these means the upper part of the zigzagged strip can be compressed, so that the lubricator can be readily passed through the opening in the roof of the oil-chamber C.

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

1. The combination, with a journal-box and with the oil-chamber formed in the bottom part thereof, of a lubricator formed of a zigzagged strip of sheet metal, substantially as herein shown and described.

2. The combination, with a journal-box and with the oil-chamber formed in the bottom part thereof, of a lubricator formed of a zigzagged strip of sheet metal mounted upon a spring, substantially as and for the purpose set forth.

3. A lubricating device composed of a zigzagged strip of sheet metal and of a spring acting on the same, substantially as shown and described.

4. A lubricating device composed of a zigzagged strip of sheet metal, a base-plate supporting said strip, and a spring supporting the base-plate, substantially as set forth.

In testimony whereof I have hereunto set my hand and seal in the presence of two subscribing witnesses.

FELIX BROWN. [L. s.]

Witnesses:

E. F. KASTENHUBER,  
D. VAN SANTVOORD.