

W. C. MANESS.
LUBRICATOR.
APPLICATION FILED FEB. 8, 1908.

900,181.

Patented Oct. 6, 1908.

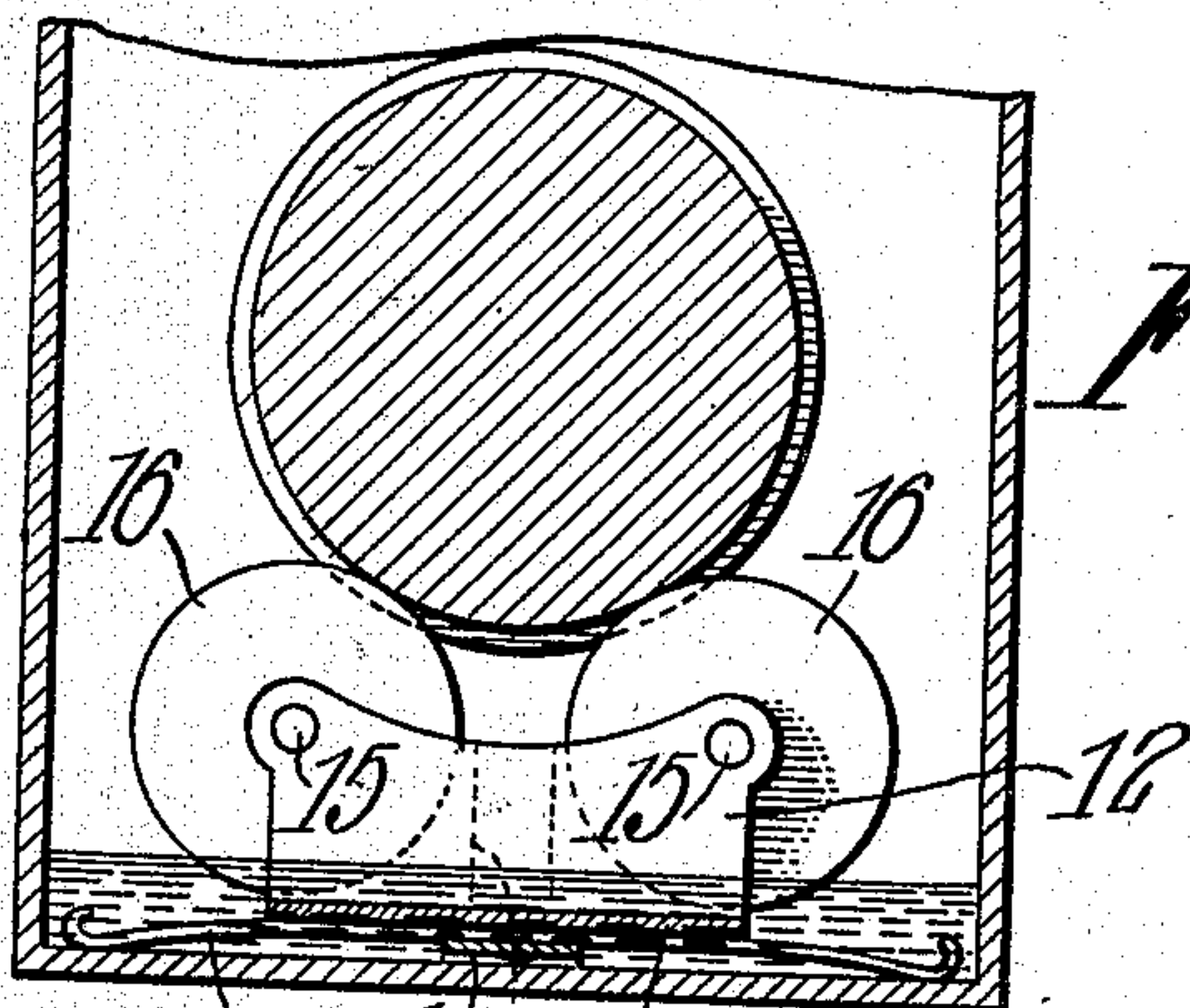


Fig. 1.

Fig. 2.

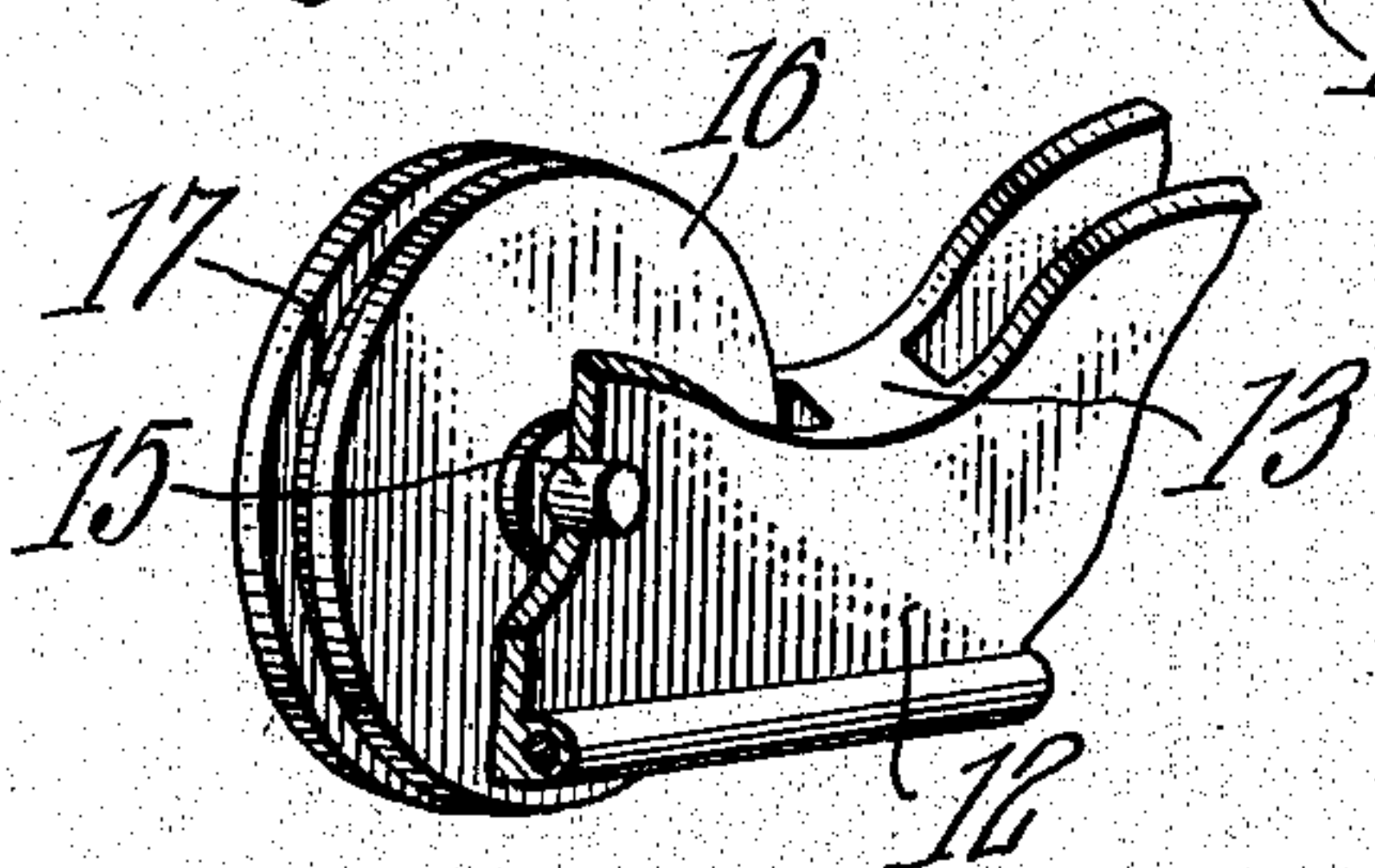


Fig. 3.

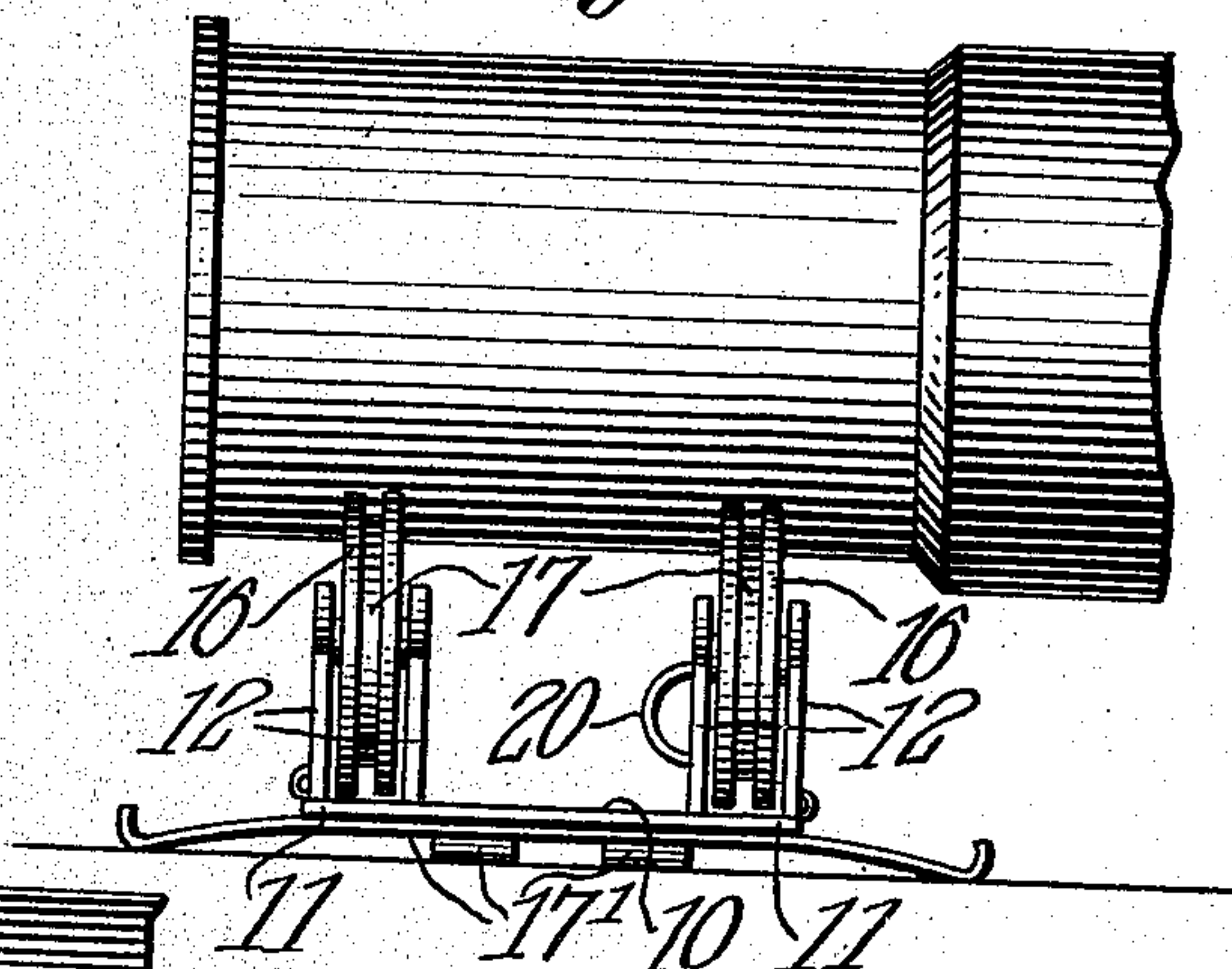
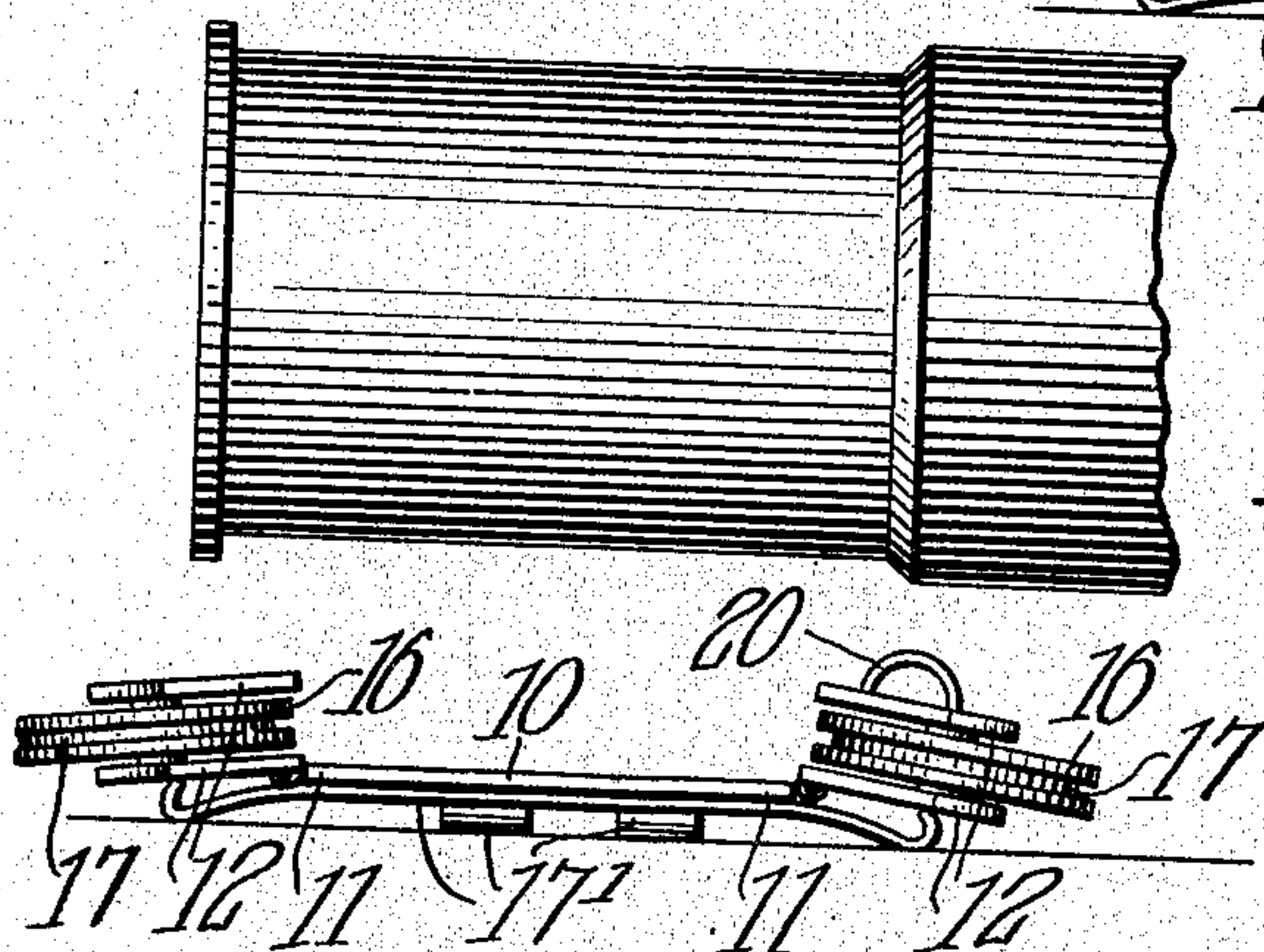


Fig. 4.



Witnesses

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UNITED STATES PATENT OFFICE.

WILLIAM C. MANESS, OF LAREDO, TEXAS.

LUBRICATOR.

No. 900,181.

Specification of Letters Patent.

Patented Oct. 6, 1908.

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To all whom it may concern:

Be it known that I, WILLIAM C. MANESS, a citizen of the United States, residing at Laredo, in the county of Webb and State of Texas, have invented a new and useful Lubricator, of which the following is a specification.

This invention relates to lubricating devices for use in the journal boxes of railway cars, or at other places where the lubricant is to be fed upward to an under bearing journal.

The principal object of the invention is to provide a novel form of lubricator which is set into motion by the revoluble journal or axle, and which will carry lubricant continuously from the bottom of the box to such journal.

A further object of the invention is to provide a device of this type of such construction as to permit its ready introduction into and removal from journal boxes of ordinary construction.

With these and other objects in view, as will more fully hereinafter appear, the invention consists in certain novel features of construction and arrangement of parts, hereinafter fully described, illustrated in the accompanying drawings, and particularly pointed out in the appended claims, it being understood that various changes in the form, proportions, size and minor details of the structure may be made without departing from the spirit or sacrificing any of the advantages of the invention.

In the accompanying drawings:—Figure 1 is a sectional elevation of a lubricating device constructed in accordance with the invention, showing the same in position in an ordinary form of journal box. Fig. 2 is a detail view partly in section, of one end portion of one of the frames. Fig. 3 is an end view of the lubricator and showing the axle thereon. Fig. 4 is a view similar to Fig. 3 and showing the frames folded downward.

Similar numerals of reference are employed to indicate corresponding parts throughout the several figures of the drawings.

The base plate 10 of the lubricator has a pair of frames 12 pivotally connected to its side portion 11. Each of these frames comprises a pair of spaced plates which are connected together by a block or web 13 integral therewith or secured thereto in order to maintain the plates in proper relative posi-

tion. These frames may be moved down to a position parallel with the base plate 10 in order to effect their ready introduction into the journal box, and when in position, may be moved up to a position at a right angle to the base plate, and when turned to this position, the innermost plates 12 of each frame will bear against the opposite side portions of the main body of the base plate. Each of the frames 12 carries a pair of pins 15 on which are mounted rollers 16, formed of compressed paper, vulcanized fiber, or other material preferably non-metallic, and each roller is provided with a peripheral groove 17, that will tend to carry up a quantity of oil from the bottom of the journal box to the lower portion of the journal or axle.

Secured to the bottom of the base plate are three leaf springs 17', two of which are arranged in parallel relation with each other, and with the frames 12, while the third spring is disposed at a right angle to the other two. These three springs bear on the bottom of the journal box and tend to hold the lubricator up, so that the rollers are yieldably maintained in contact with the journal or axle, and are frictionally rotated by contact therewith. The innermost frame 12 at that end of the lubricator which is first introduced into the journal box is provided with a projecting eye 20, so that it may be engaged and drawn up to a vertical position by the ordinary packing hook or similar tool, and after the opposite end of the lubricator is inserted, the outermost of the frames is turned up to vertical position. The hinges are located at the outer edges of the roller carrying frames, so that said frames cannot move toward each other, and when in position in the journal box the frames are held from outward movement, so that the rollers will be maintained in proper position in contact with the lower face of the journal or axle, and will be operated at a speed proportioned to that at which the journal or axle is rotated, so that the oil or other lubricant will be carried up into contact with the journal.

I claim:—

1. In a journal lubricator a base plate, frames hinged to the plate, and a pair of journal engaging rollers carried by each frame.

2. In a journal lubricator a base, a pair of frames hinged to the base, said hinges being

arranged to limit the movement of the frames toward each other, and a pair of journal engaging rollers carried by each frame.

3. In a journal lubricator a spring supported base, a frame hinged to the base and provided with an eye for the reception of a tool by which said frame may be turned to upright position after its insertion in the journal box, and a pair of journal engaging rollers carried by the frame.

4. In a journal lubricator a base, journal engaging rollers, roller carrying frames hinged to the base, said frames being free to swing outward from each other, and being held from movement toward each other beyond positions at a right angle to the base.

5. In a journal lubricator, a base plate, a pair of frames pivoted thereto and each comprising a pair of spaced plates, the innermost plates of each frame being arranged to engage the upper face of the base plate, rollers mounted in said frames, and leaf springs secured to and forming a yieldable support for the base.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

WILLIAM C. MANESS.

Witnesses:

E. H. SAUVIGNET,
GEO. RODRIGUEZ.