

C. ANDERSSON.
LUBRICATING DEVICE.

No. 423,202.

Patented Mar. 11, 1890.

FIG 1.

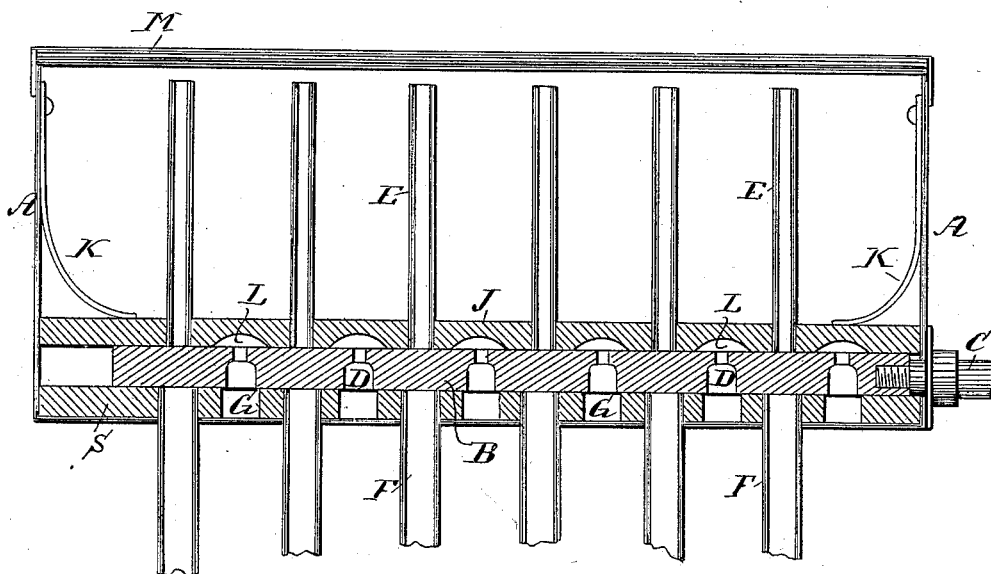
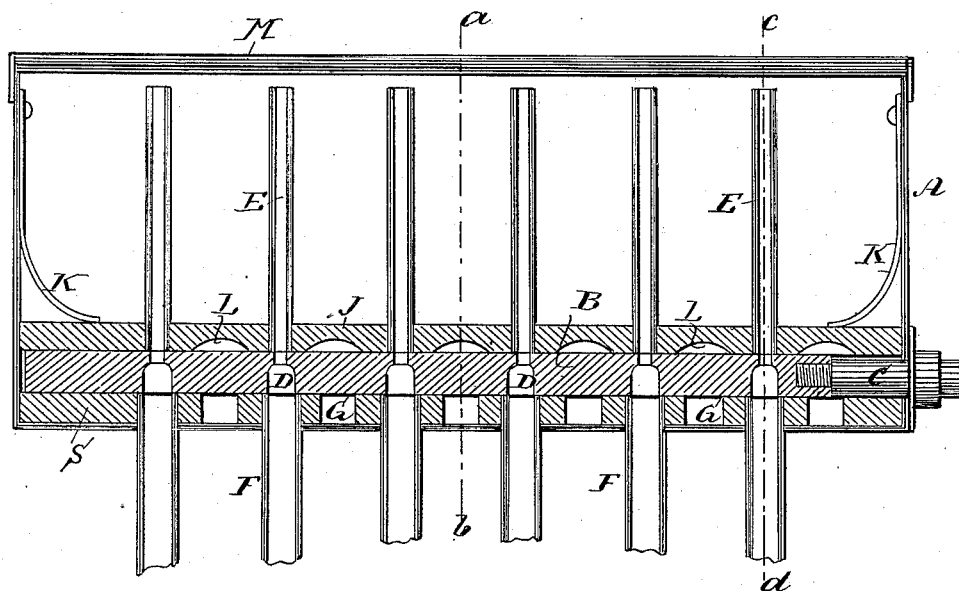


FIG 1A



Witnesses
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FIG 3

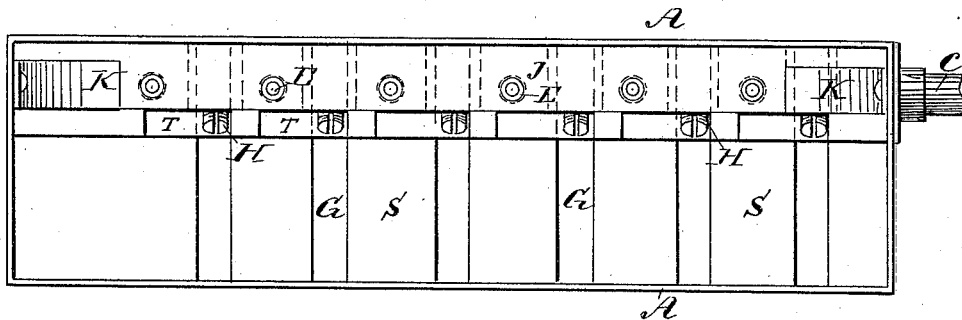


FIG 2

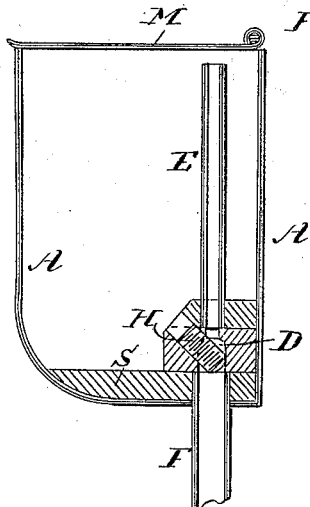
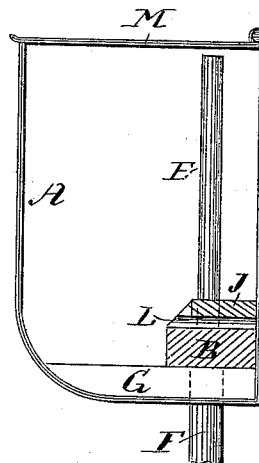


FIG 4



Witnesses
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UNITED STATES PATENT OFFICE.

CARL ANDERSSON, OF COPENHAGEN, DENMARK.

LUBRICATING DEVICE.

SPECIFICATION forming part of Letters Patent No. 423,202, dated March 11, 1890.

Application filed May 4, 1889. Serial No. 309,574. (No model.)

To all whom it may concern:

Be it known that I, CARL ANDERSSON, a subject of the King of Sweden, residing at Copenhagen, in the Kingdom of Denmark, have invented certain new and useful Improvements in or Relating to Lubricating Devices; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

The present invention relates to an adjustable lubricating device, by means of which the quantity of oil which is fed to the several parts of a machine can be simultaneously regulated.

In the accompanying drawings, Figure 1 represents the lubricating device in longitudinal section, the appliance being shown in feeding position. Fig. 1^A represents the same, but in lubricating position. Fig. 2 shows a section by the line *c d*, Fig. 1^A. Fig. 3 shows the appliance seen from above with the lid removed. Fig. 4 shows a section by the line *a b*, Fig. 1^A.

The apparatus consists of a cast-iron reservoir A, the bottom of which is provided with a lining S, in which are formed a series of transverse recesses G, extending quite or nearly quite across the whole width of the bottom. The reservoir is closed at the top by a lid M, which can move on hinges. In each of the cross-pieces or projections S, between the said recesses, are formed one or more holes passing through the bottom and connected with pipes F for conducting the lubricant to the several parts of the machine which are to be lubricated. On these cross-pieces or projections moves a longitudinal slide B, formed with openings corresponding with those formed in the cross-pieces or projections. Above the said slide B is placed a plate J, which may be held down against the slide by means of springs K, or otherwise, and carries directly above the pipes F in the bottom of the apparatus pipes E, the upper ends of which always stand above the level of the oil in the reservoir. On the under side of the said plate J are formed grooves L, which register with the openings D in the slide B and also with the recesses G, formed in the bottom of the reservoir and extend across the whole width of the plate.

When the slide B stands in the position represented in Figs. 1, 3, and 4, the oil contained in the reservoir A will enter the openings of the slide through the grooves G in the bottom of the reservoir, while the air which was contained in the said openings will escape through the grooves of the upper plate J. When the slide B is now moved so that the openings D thereof register with the tubes fixed in the bottom and in the upper plate, as represented in Fig. 1^A, the oil contained in the said openings will flow into the tubes fixed in the bottom and be conducted to the parts of the machine to be lubricated. By a return movement of the slide its openings D are filled again, when fresh lubrication can take place.

The quantity of oil to be fed to each part of the machine may be regulated by a screw H, passing through the slide into the openings thereof, whereby the capacity of the opening can be adjusted. In the slantingly-cut front edge of the plate J there are, as shown in Fig. 3, cuts T for the heads of these regulating-screws H.

The slide is provided with a rod C, passing through the side of the reservoir and connected in a suitable manner with some part of the machine which will impart the desired reciprocating motion to the slide.

If it is desired to lubricate the machine before starting, sucking-wicks may be introduced in the tubes E of the upper plates when the openings of the slide register therewith.

What I claim, and desire to secure by Letters Patent of the United States, is—

An adjustable lubricating apparatus, consisting of the reservoir A, having in its bottom a series of transverse recesses G, the movable longitudinal slide B, having holes D and means for adjusting the size of said holes, the plate J, with grooves L, and pipes E and F, which through the holes D may be brought to correspond with each other.

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

CARL ANDERSSON.

Witnesses:

PAUL PETERSEN,
LAURITZ NIELSEN.