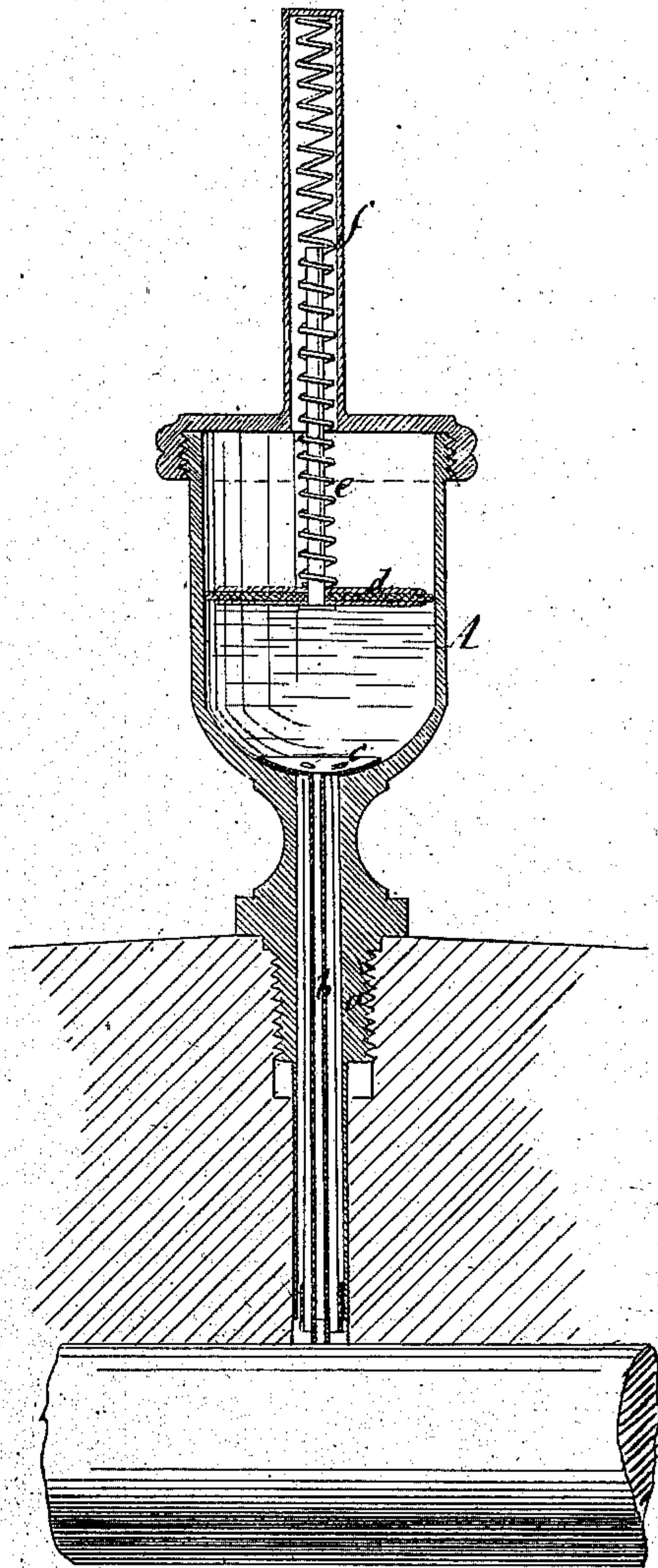


Gregory Gerdam's *Imp^d* Lubricator.

103170

PATENTED MAY 17 1870



Witnesses:
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per
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Attys

United States Patent Office.

GREGORY GERDOM, OF ALBANY, NEW YORK.

Letters Patent No. 103,170, dated May 17, 1870.

IMPROVED LUBRICATOR.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, GREGORY GERDOM, of the city of Albany, in the county of Albany and State of New York, have invented a new and useful Improvement in Lubricators; and I do hereby declare the following to be a full, clear, and exact description thereof, which will enable those skilled in the art to make and use the same, reference being had to the accompanying drawing forming part of this specification, which drawing represents a longitudinal central section of this invention.

This invention relates to a lubricator or oil-cup intended particularly for lubricating loose pulleys. The lubricator is screwed into the hub of the pulley, and it is filled with a compound which melts at a temperature of about 110° , the heat being transmitted to the interior of the cup by a tube resting upon the journal or shaft, so that, whenever said journal begins to heat, a portion of the lubricating compound melts and runs down to the journal.

If the lubricating cup is attached to the hub of a loose-pulley, so that it is carried round by the same, provision must be made to retain the lubricating material down at the bottom of the cup, and to effect this purpose, a follower is fitted into the cup, which bears upon the lubricating material, being pressed down by a spring, a portion of which is inclosed in a tube extending from the top of the cup, said tube being made of such a length that room is obtained for a spring of sufficient length to act upon the follower with the requisite amount of power, whatever the position of said follower in the cup may be.

In the drawing—

The letter A designates a lubricator or oil-cup, which is provided with screw-shank *a*, by means of which it can be secured in the hub of a loose pulley, or in any other article to which said lubricator is to be attached.

Through this screw-shank extends a pipe, *b*, which is made of copper, or other good conductor of heat, and the outer end of which is intended to rest loosely upon the journal of the shaft which is to be lubricated, while its inner end bears a perforated concave disk, *c*, on which the lubricating material is packed, so that it serves to keep the pipe *b* in contact with the jour-

nal, and also to diffuse the heat communicated by the journal to the pipe, throughout that portion of the lubricating material which is in contact with it.

The lubricating material is compounded in such a manner that it melts at a temperature of about 110° , and that it will not become liquid at the ordinary temperature, but if the journal begins to heat, and the heat is communicated through the pipe *b* and disk *c* to the lubricating material in contact with said disk, a portion thereof is melted and the journal is lubricated.

In order to insure a correct operation of this device, therefore, it is necessary that the lubricating material shall be held in contact at all times with the disk *c*.

This object is attained by a follower, *d*, which is fitted into the cylindrical body of the cup A, and depressed upon the lubricating material by means of a spiral spring, *e*.

This spring must necessarily be of such a length that it is capable to keep the follower down upon the lubricating material throughout the entire depth of the cup A, and in order to effect this purpose, a tubular projection, *f*, has been secured to the top of the cup A, said tubular projection being large enough to admit the spring, as shown in the drawing.

By this arrangement the follower is kept in contact with the lubricating material, even if the cup A is secured in the hub of a loose pulley, and carried round with the same, the spring being made strong enough to counteract the centrifugal force of the follower.

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

1. An oil-cup or lubricator, consisting of a frame A, follower *d*, spring *e*, disk *c*, and pipe *b*, combined, substantially as and for the purpose described.

2. The combination of follower *d*, spring *e*, disk *c*, frame A, with a top carrying a tube, *f*, substantially as described.

This specification signed by me this 13th day of April, 1870.

GREGORY GERDOM.

Witnesses:

W. HAUFF,

E. F. KASTENHUBER.