

J. EDSON.

ADJUSTABLE LUBRICATOR.

No. 185,392.

Patented Dec. 19, 1876.

Fig. 3.

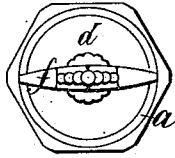


Fig. 1.

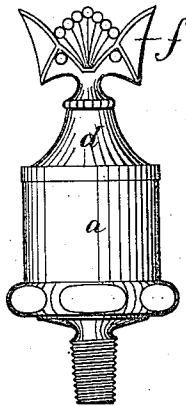
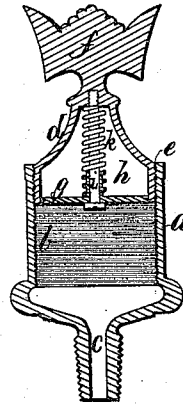


Fig. 2.



Witnesses:

Henry Chadbourn.
J. Allen.

Inventor:

Jacob Edson.
by
Alban Andren.
his atty.

UNITED STATES PATENT OFFICE.

JACOB EDSON, OF BOSTON, MASSACHUSETTS.

IMPROVEMENT IN ADJUSTABLE LUBRICATORS.

Specification forming part of Letters Patent No. 185,392, dated December 19, 1875; application filed November 20, 1876.

To all whom it may concern:

Be it known that I, JACOB EDSON, of Boston, in the county of Suffolk and State of Massachusetts, have invented certain new and useful Improvements in Adjustable Lubricators; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

My invention relates to improvements in adjustable lubricators, and is especially adapted for containing lard, grease, heavy oils, or lubricating compounds that will not flow out through the lower orifice without additional pressure, although my invention may also be used for lighter oils, in the ordinary way.

My invention consists of a case or receptacle for the lubricating compound or oil, which receptacle is provided with an internal screw-thread, and is provided in its lower end with an opening, through which the lubricating material is fed to the journal or bearing, &c.

The oil-receptacle is covered in its upper end by means of a screw-threaded cover, fitting into the internal screw-thread of the oil-case, by which arrangement the said cover can be screwed down upon the lubricating compound contained in the receptacle, so as to force it out through the lower opening to the journal, bearing, &c., in the proportion required. In addition to this adjustable arrangement of the screw-threaded cover, it is provided with an elastic or yielding follower, fitting closely, but so as to be free to play up and down, in the recess of the cover. The said yielding follower is held in its proper relative position in the cover by means of a central bolt or pin, the upper end of which is screwed into the upper end of the cover. Behind the said yielding follower is located a suitable spring, by which arrangement the follower will yield upward when the cover is screwed down upon the lubricating material, and as the latter is consumed, the follower will automatically be forced downward upon the lubricating material, and thus force it out to the journal, bearing, &c., for a day, or more or less, with-

out the necessity of screwing down the adjustable cover. In the cover, above the yielding follower, is made an air-chamber, the object of which is to compress the air therein when the cover is screwed down, for the purpose of preventing the lubricating material from ascending above the said yielding cover. The air so compressed will also serve as an elastic cushion, for the purpose of automatically forcing the yielding cover upon the lubricating material as it is fed to the journal, bearing, &c., in addition to the expansive force of the spring aforesaid.

On the accompanying drawings, Figure 1 represents a side elevation of my invention. Fig. 2 represents a central longitudinal section, and Fig. 3 represents a plan view of the same.

Similar letters refer to similar parts wherever they occur on the different parts of the drawings.

a represents the case or receptacle for the lubricating material, provided with an internal screw-thread, *b*, as shown, and having an opening, *c*, in its lower end, and a suitable screw-threaded shank, or similar device, by means of which the lubricator can easily be secured to the journal, bearing, &c., for which it is to be used. *c* represents the cover, having an external screw-thread, *e*, fitting into the internal screw-thread *b* in the case *a*. The cover *d* is provided in its extreme upper end with a suitable handle, *f*, by which it is operated.

g represents the yielding or elastic follower, fitting closely, but with freedom to move up and down, in the annular recess or air-chamber *h* above the said follower. *i* represents the pin or bolt by which the follower is kept in its proper position, and on which it is guided during its motion up and down in the recess *h*. Above the follower *g* is located, around the pin *i*, an expansive spring, *k*, the upper end of which rests against the upper terminus of the air-chamber *h*, as shown in Fig. 2. The upper end of the pin or bolt *i* is screwed into a screw-threaded part in the upper portion of the cover *d*, as shown.

The lower part of the air-chamber *h* is shown cylindrical in form, its upper part being shown conical or tapering; and I wish to state that I

do not wish to confine myself to this particular shape and form, as the same may be carried out in any suitable and well-known manner without departing from the spirit of my invention.

Having thus fully described the nature, construction, and operation of my invention, I wish to secure by Letters Patent, and claim—

1. A lubricator consisting of a case or receptacle having an internal screw-thread, in combination with an adjustable screw-threaded cover, as and for the purpose set forth and described.

2. In a lubricator, the combination, with its cover *d*, of an elastic follower, *g*, for the purpose set forth and described.

3. In a lubricator, the air-chamber *h* in the cover *d*, substantially as and for the purpose set forth and described.

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

JACOB EDSON.

Witnesses:

ALBAN ANDREN,
HENRY CHADBOURN.