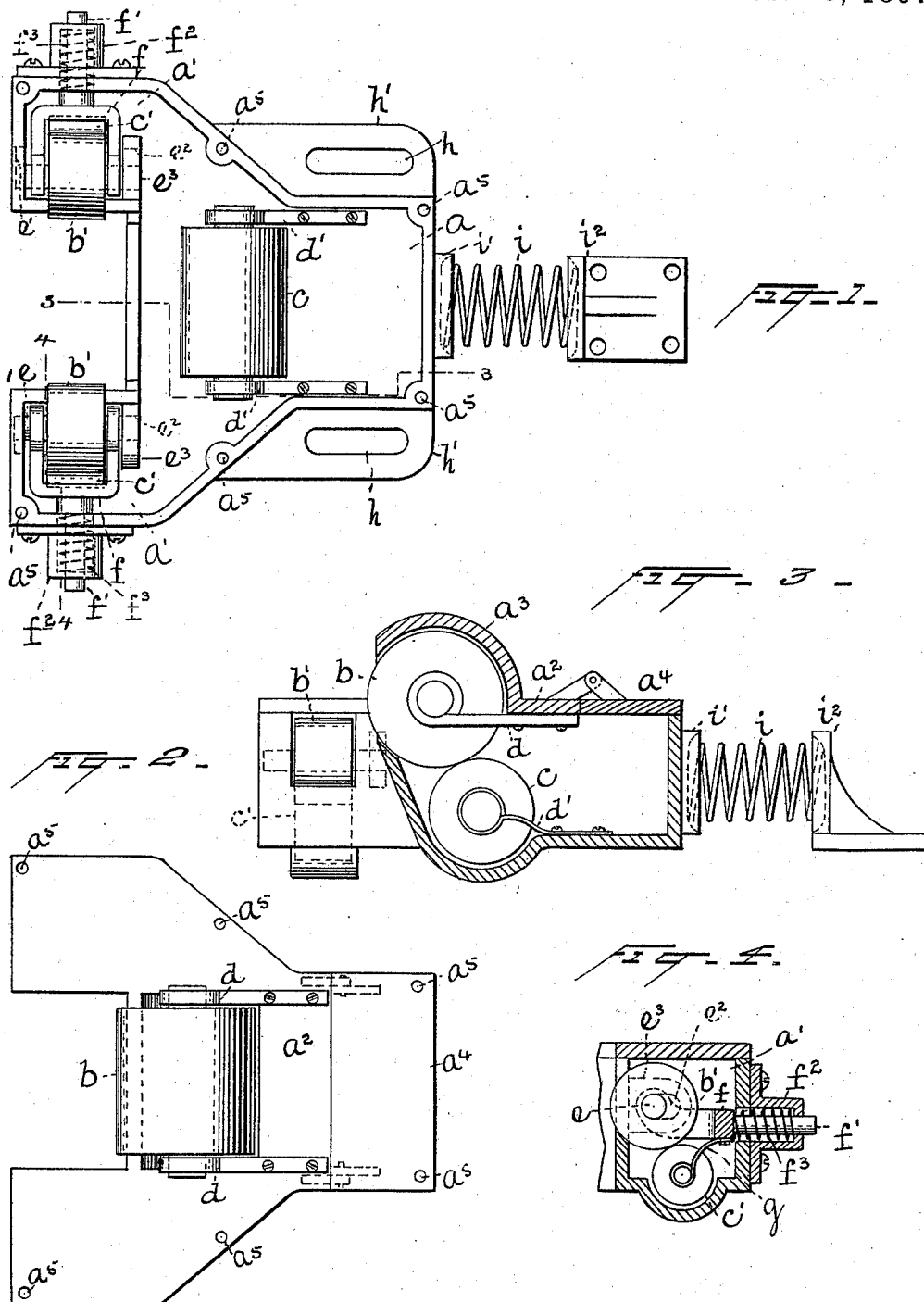


(No Model.)

G. A. HOFMEYER.
LUBRICATOR.

No. 577,658.

Patented Feb. 23, 1897.



Witnesses
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UNITED STATES PATENT OFFICE.

GEORGE A. HOFMEYER, OF NEW YORK, N. Y., ASSIGNOR TO ROSALIE HOFMEYER, OF SAME PLACE.

LUBRICATOR.

SPECIFICATION forming part of Letters Patent No. 577,658, dated February 23, 1897.

Application filed January 23, 1894. Serial No. 497,752. (No model.)

To all whom it may concern:

Be it known that I, GEORGE A. HOFMEYER, a citizen of the United States, residing at New York city, in the county and State of New York, have invented a certain new and useful Improvement in Lubricators, of which the following is a specification.

The object of my invention is to provide a device for lubricating the guide-rails for elevators with oil. The main object is to provide a device adapted to be secured to the elevator which will be constantly in contact with the rail and automatically lubricate the same evenly and without waste; and my invention consists in the novel devices and combinations of devices hereinafter more fully described, and pointed out in the claim.

In the accompanying drawings, which illustrate my invention, Figure 1 is a plan view of a lubricator with the cover removed; Fig. 2, a plan view of the inner side of the cover; Fig. 3, a cross-section on the line 3 3 of Fig. 1, and Fig. 4 a cross-section on the line 4 4 of Fig. 1.

The lubricator consists of an oil-chamber *a*, having branch chambers *a'* extending therefrom and communicating directly therewith; *b*, the roller for lubricating the face of the elevator-rail, and *b'* *b'* the rollers for lubricating the sides of the rail; *c*, a roller for feeding oil to roller *b*, and *c'* *c'* rollers for feeding oil to rollers *b'* *b'*.

Roller *b* is supported in suitable bearings *d*, secured to the inside of the cover *a*² of the oil-chamber, and this cover is preferably curved, as at *a*³, where it extends over roller *b*. Cover *a*² is also provided with a hinged section *a*⁴ for introducing oil into the chamber. The cover *a*³ is secured to the chamber in any suitable manner, preferably by screws passing through screw-holes *a*⁵ in the cover and in the body of the chamber. The feeding-roll *c*, which feeds oil to roller *b*, is supported by spring-bearings *d'*, secured to the bottom of the chamber *a*, the object of the spring-bearing being to maintain roller *c* against roller *b* in order to feed the oil to roller *b* and also to compensate for the wearing of

the rollers. Rollers *b'* are supported by spindles *e*, which at one end have a bearing in slot *e'*, formed in the casing, and at the other end in a slot *e*² in projection *e*³, formed integral with the casing. The object of providing slots for the spindle of rollers *b'* is to permit lateral movement of the rollers in order to compensate for the vibration of the elevator. In order to maintain these rollers against the sides of the rails, I provide each spindle *e* with a stirrup *f*, which has a stem *f'* working in box *f*², secured to the casing, and within this box is a spiral spring *f*³, exerting its pressure against the stirrup and forcing the rollers toward the rail.

Feed-rollers *c'* for feeding oil to rollers *b'* are supported by spring-bearings *g*, secured to stirrup *f*, for the same reason that feed-roller *c* is supported by spring-bearings.

The lubricator is movably held to the elevator by screw-bolts passing through slots *h* in flanges *h'*, formed integral with the casing. I provide a spring *i*, which is placed between plate *i'* on the rear of the casing and an angle-iron *i*², secured to the elevator. This spring maintains roller *b* against the face of the rail and compensates for the vibration of the elevator. Thus by providing springs *i* and *f*³ I reduce the strain on the lubricator, since if the lubricator were rigidly secured to the car the strain on the lubricating-rollers, as well as on the casing, would be considerable.

In supplying the lubricator with oil it is only necessary to put in a sufficient amount to partly immerse the feed-rollers *c* and *c'*.

By providing a lubricator of the character above described the oil is easily spread upon the rail and with the least amount of waste, since the oil is evenly distributed by the feed-roller over the lubricating-rolls and at the same time overfeeding is avoided.

What I claim is—

An elevator-lubricator, comprising a casing forming a main oil-chamber, and branch oil-chambers, a roller *b* mounted in immovable bearings within the main oil-chamber, a spring-pressed feed-roller immersed in the oil and in contact with said roller *b*, a spring

engaging the casing for moving the same, whereby said roller *b*, will be kept in constant engagement with the elevator-rail, a smaller roller *b'* in each branch oil-chamber carried
5 in an independent spring-pressed support, whereby the smaller rollers will be kept in constant engagement with the sides of the elevator-rail, and a feed-roller for each roller *b'*

carried by the support for said rollers *b'*, substantially as set forth.

This specification signed and witnessed this 18th day of January, 1894.

GEORGE A. HOFMEYER.

Witnesses:

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