

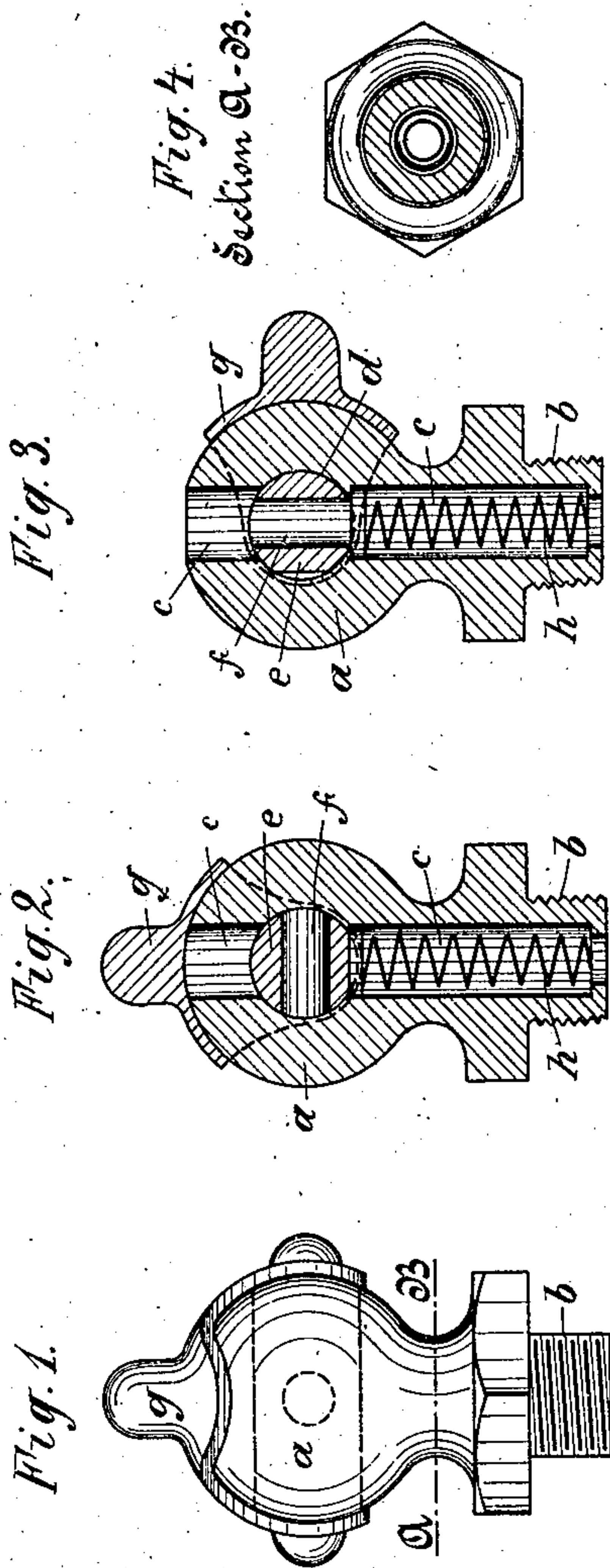
No. 617,898.

Patented Jan. 17, 1899.

H. FROBÖSE.
LUBRICATOR.

(Application filed July 6, 1898.)

(No Model.)



Witnesses:
Julius Kutz.
Isaac B. May.

Inventor:
H. Froböse.
By *Mumford*
Attorneys.

UNITED STATES PATENT OFFICE.

HEINRICH FROBÖSE, OF BIELEFELD, GERMANY, ASSIGNOR TO THE BIELEFELDER MASCHINEN-FABRIK, VORMALS DÜRKOPP & CO., OF SAME PLACE.

LUBRICATOR.

SPECIFICATION forming part of Letters Patent No. 617,898, dated January 17, 1899.

Application filed July 6, 1898. Serial No. 685,282. (No model.)

To all whom it may concern:

Be it known that I, HEINRICH FROBÖSE, a subject of the King of Prussia, Emperor of Germany, residing at Bielefeld, in the Kingdom of Prussia, Germany, have invented certain new and useful Improvements in or Relating to Lubricators, (for which I have applied for a patent in Germany, filed June 3, 1898; in England, No. 13,118, filed June 11, 1898; in France, filed June 11, 1898, and in Belgium, filed June 20, 1898,) of which the following is a specification.

This invention relates to improvements in lubricators, and is especially applicable for use on cycle and similar bearings, and is illustrated in the accompanying drawings in a form suitable for cycle wheels and bearings. The device is provided with a double-closure for preventing dust from penetrating into the bearings, the inner closure being effected by a plug shutting off completely the lubricator-hole from the bearings, while the second additional closure is formed by a cover, both the closures being actuated, as hereinafter described, by a single manipulation.

Figure 1 is a front elevation of the new lubricator. Figs. 2 and 3 are vertical sections of the lubricator in the closed and open condition, respectively. Fig. 4 is a horizontal section on line A B in Fig. 1.

The lubricator consists, essentially, of a body *a*, preferably made in one piece and provided with a screw-thread *b* and is vertically bored out so as to form a lubricant-channel *c* and horizontally bored out to form a cross-channel *d*, wherein a plug *e* is located, the latter having a passage *f*, which when the plug is in place in the boring is adapted to be placed in line with the lubricant-channel *c*. To the plug is secured, on both sides, on the outside of the body a closure-cover *g*. When the latter is in the horizontal position, (see Fig. 3,) the lubricant-channel is open, while when the cover *g* is in the vertical position, Fig. 2, by the closure of the plug, which is effected by turning the cover, the lubricant-channel is doubly closed—viz., by the plug *e*,

as well as by the cover *g*—so that dust is effectually prevented from penetrating into the bearings and the lubricant from flowing out. 50

The double closure of the lubricant-channel is effected, as already mentioned, by a single manipulation, the plug *e* being connected with the cover *g*, so as to move with it.

A spring *h* may be arranged in the body to serve to retain the plug, and consequently the cover also, in the closed or open position, and for this purpose the plug may, if desired, have flats formed upon its surface. 55

The advantage of this lubricating device consists, in addition to the double closure against the entrance of dust and the outflowing of oil, in the easy cleaning of the the lubricating-channel, as after the cover has been opened one may push the cleaning instrument through the channel up to the bearings. 60 65

I claim—

1. The combination of a body having a channel therein, a plug mounted to turn in the channel and having a passage capable of registering with the channel, and a cover connected with the plug so as to swing over the body, the plug and cover being joined, so that as the plug moves to closed position, the cover moves over the channel in the body. 70 75

2. The combination of a body portion having a channel therein, a plug mounted in the body portion to command the channel, and a cover moving over the body portion in unison with the plug to command the channel. 80

3. The combination of a spherical body portion having a channel, a plug mounted in the body portion and commanding the channel, and a curved cover attached to the plug and moving over the body portion in unison with the plug to command the channel. 85

In witness whereof I have hereunto signed my name in the presence of two subscribing witnesses.

HEINRICH FROBÖSE.

Witnesses:

LUDW. PETRI.
ERNST ROMLY.