

No. 669,065.

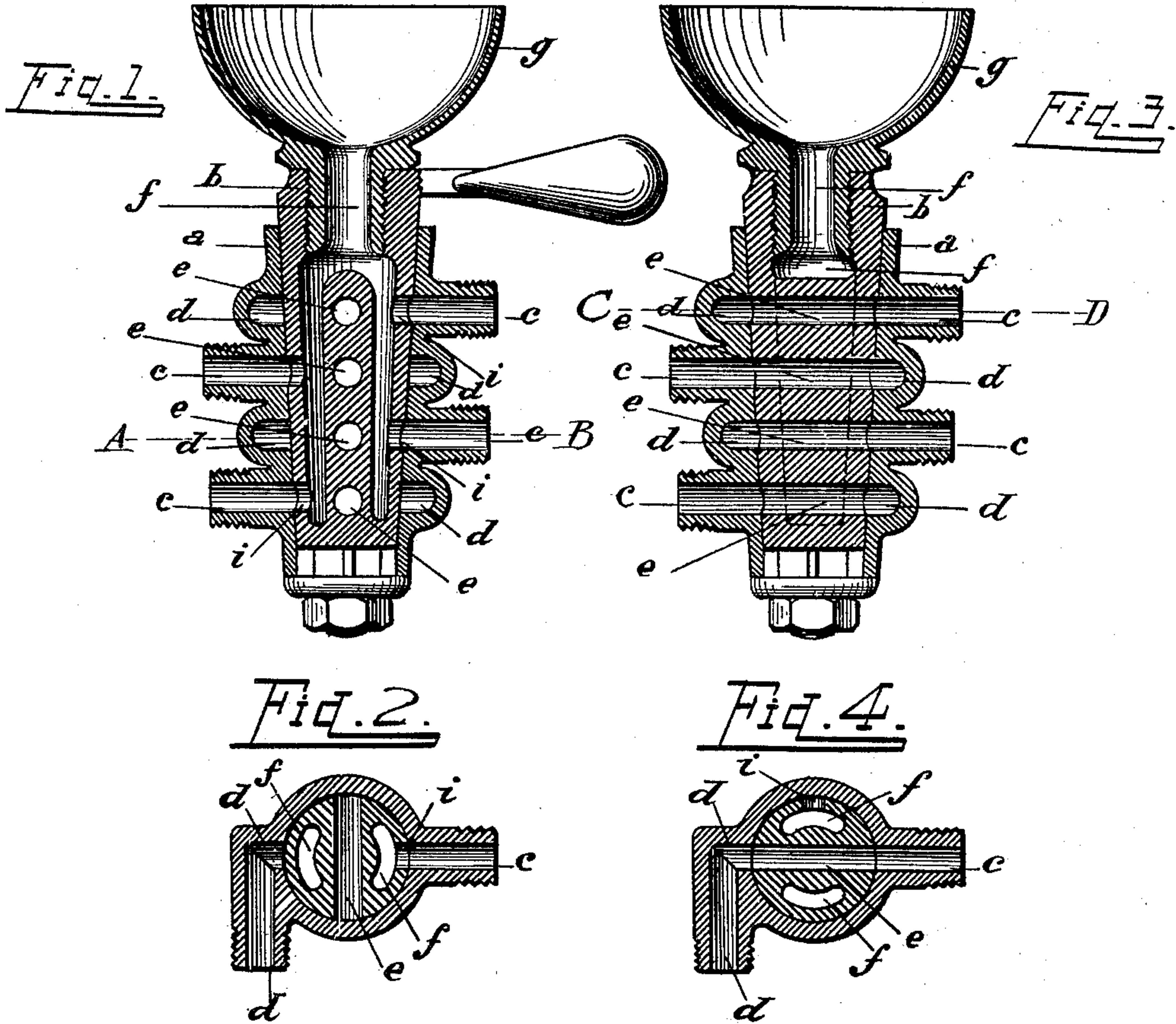
Patented Feb. 26, 1901.

W. MICHALK.
COMPRESSION LUBRICATOR.

(Application filed Mar. 28, 1900.)

(No Model.)

2 Sheets—Sheet 1.



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2 Sheets—Sheet 2.

Fig. 6.

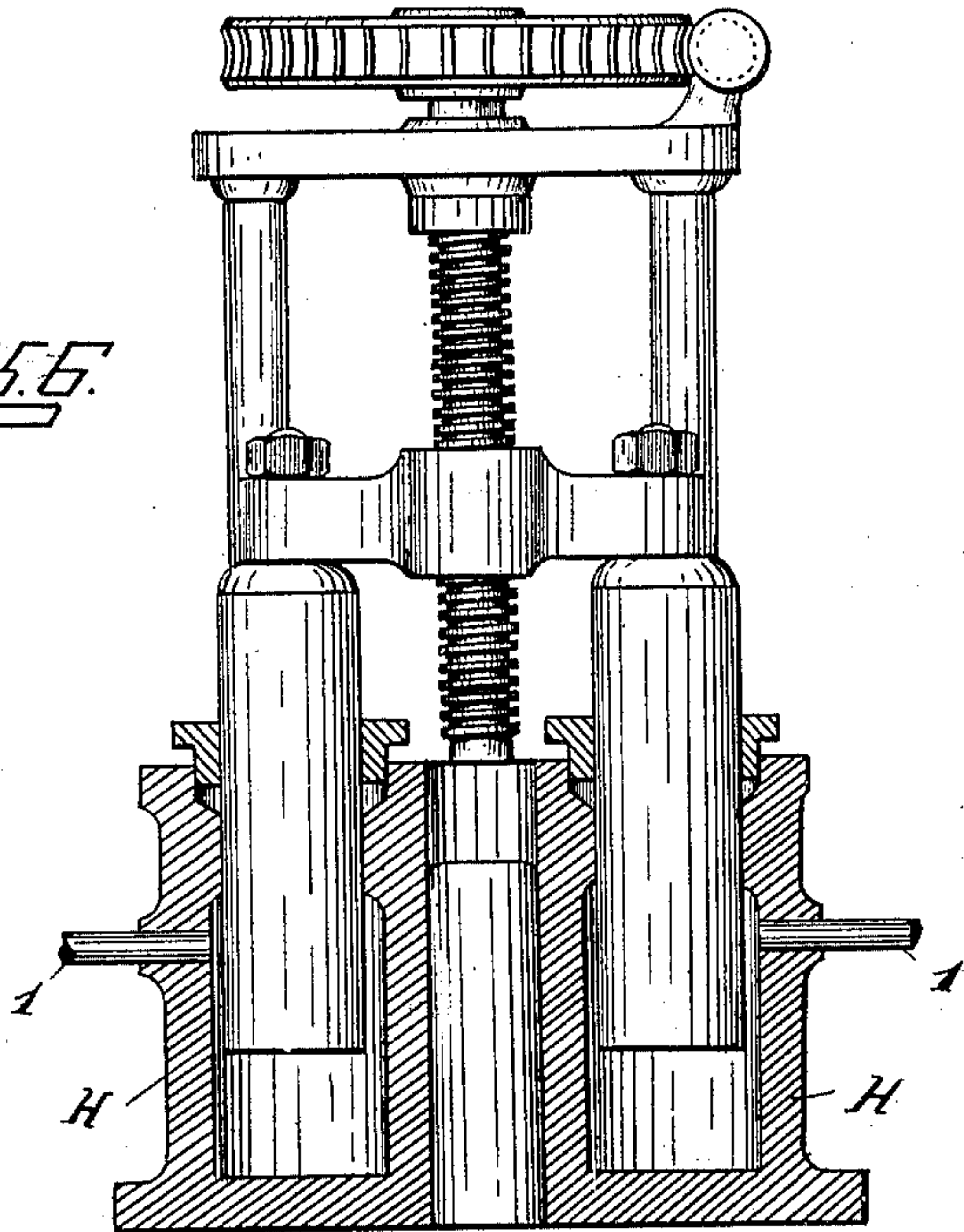
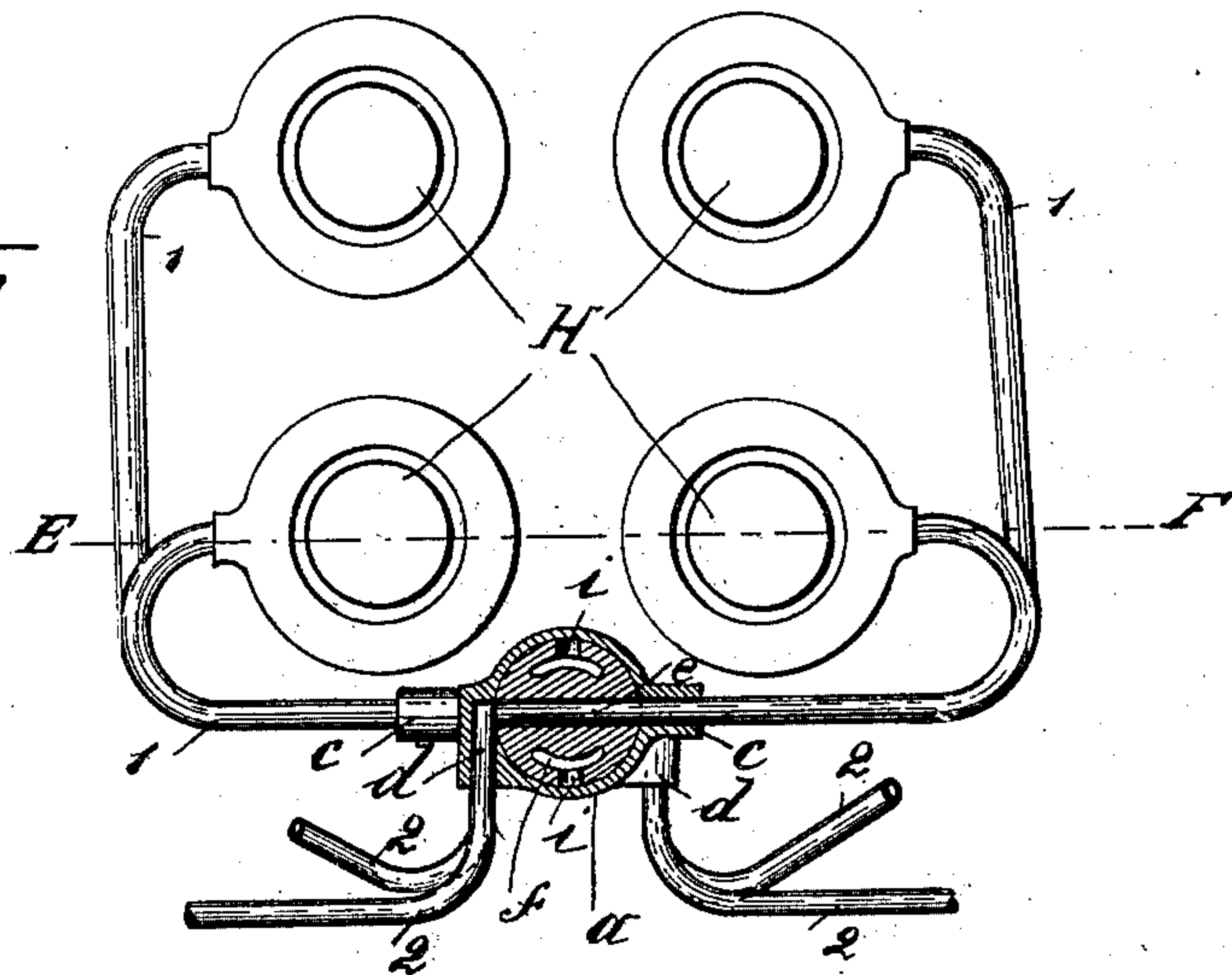


Fig. 5.



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UNITED STATES PATENT OFFICE.

WILHELM MICHALK, OF DEUBEN, NEAR DRESDEN, GERMANY.

COMPRESSION-LUBRICATOR.

SPECIFICATION forming part of Letters Patent No. 669,065, dated February 26, 1901.

Application filed March 28, 1900. Serial No. 10,569. (No model.)

To all whom it may concern:

Be it known that I, WILHELM MICHALK, a subject of the German Emperor, and a resident of Deuben, near Dresden, Germany, have invented certain new and useful Improvements in Compression-Lubricators, of which the following is a specification.

My present invention relates to compression-lubricators having a plurality of cylinders and plungers, the object being to provide means whereby the oil-passages from each cylinder may be collectively closed and opened and whereby said cylinders may be collectively put into communication with the filling vessel for the purpose of filling said cylinders.

With this object in view my invention consists in the construction, novel combination, and arrangement of parts fully described hereinafter and specifically pointed out in the claim.

In the accompanying drawings, Figure 1 is a vertical section of the device operated so that the oil-passages from the cylinders are in communication with the filling vessel. Fig. 2 is a section on line A B of Fig. 1. Fig. 3 is a view similar to Fig. 1, the device being operated so that the oil-passages from the several cylinders are in communication with the passages leading to the parts to be lubricated. Fig. 4 is a section on line C D of Fig. 3. Fig. 5 is a diagram showing the improved apparatus in connection with a compression-lubricator having four compressing-cylinders H. Fig. 6 is a vertical section of two compressing-cylinders H H, the section being on line E F of Fig. 5.

In carrying out the invention I connect the several oil-passages 1 from the cylinders H of the lubricator with corresponding nipples or nozzles *c c*, preferably made integral with a suitable box or casing *a*, provided on the side diametrically opposite to the nozzles *c* with other nozzles *d*, to which are connected the passages 2, conveying oil to the parts of the engine to be lubricated. In said casing *a* is rotatably arranged a cock-body *b*, provided with horizontal perforations *e e e*, adapted to register with the passages *c* and *d* and with vertical passages *f f*, communicating with the filling vessel *g*, suitably secured on the

upper end of the cock-body *a*, and with the passages *c c* through openings *i*. It will be seen that by suitably rotating the cock-body *a* to bring the perforations *e e* thereof in register with the passages *c* and *d* the oil from the lubricator-cylinders (not shown) is allowed to flow to the parts of the engine to be lubricated. When said lubricator-cylinders H are to be filled, the cock-body *a* is turned, so as to shut off the passages *d* and bring the vertical passages *f f* into communication with the oil-passages *c c*, whereby oil may flow or be exhausted from the filling vessel *g* into the cylinders H of the lubricator, said cylinders being thus filled collectively.

It will be understood that modifications may be made in the structural details without departing from the scope of the invention. For instance, the cock-body *a* may be replaced by a suitable valve, slide-valve or equivalent.

Though I have shown in the accompanying drawings one form of compression-lubricator, it is evident that my improved apparatus may be employed in connection with any desired form of such lubricators.

Having fully described my invention, what I claim, and desire to secure by Letters Patent, is—

In the device of the character set forth, the combination, with a suitable casing, of a series of nozzles on said casing adapted to be connected with the oil-passages from the several cylinders of the lubricator, and a series of nozzles adapted to be connected with the oil-passages conveying oil to the parts to be lubricated, of a rotatable body in said casing, a series of horizontal perforations in same, adapted to register with the said oil-passages, a series of vertical perforations adapted to be connected with the oil-passages from the lubricator-cylinders, and a common filling vessel arranged above the rotatable body and communicating with the vertical perforations, substantially as and for the purpose set forth.

In testimony whereof I have hereunto set my hand in presence of two witnesses.

WILHELM MICHALK.

Witnesses:

HERNANDO DE SOTO,
PAUL ARRAS.