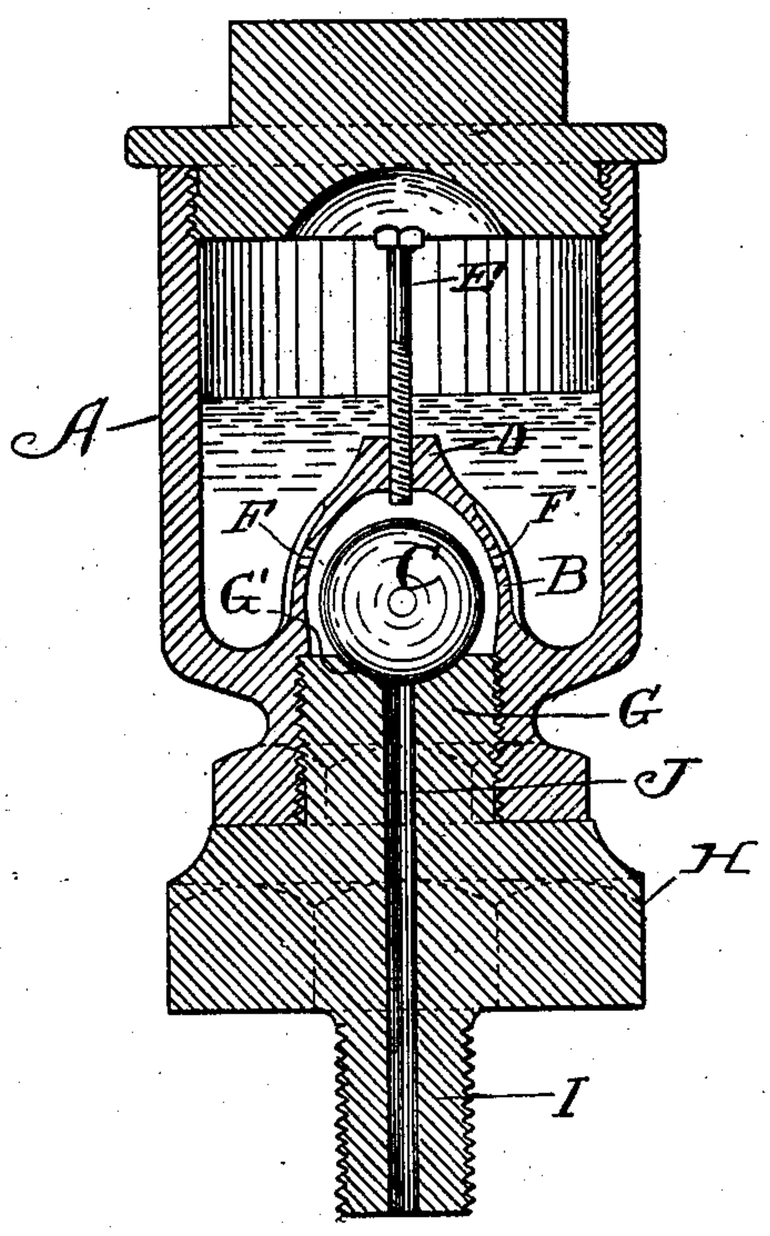
No. 762,967. PATENTED JUNE 21, 1904.

C. P. WEST.

MOTION FEED LUBRICATOR.

APPLICATION FILED MAR. 28, 1904.

NO MODEL.



Witnesses
J. Fred Hemberger
C. M. Theobald.

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No. 762,967. Patented June 21, 1904.

UNITED STATES PATENT OFFICE.

CRAWFORD P. WEST, OF SPRINGFIELD, OHIO.

MOTION FEED-LUBRICATOR.

SPECIFICATION forming part of Letters Patent No. 762,967, dated June 21, 1904.

Application filed March 28, 1904. Serial No. 200,228. (No model.)

To all whom it may concern:

Be it known that I, CRAWFORD P. WEST, a citizen of the United States, residing at Springfield, in the county of Clark and State of Ohio, have invented certain new and useful Improvements in Motion Feed-Lubricators; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawing, and to the letters of reference marked thereon, which forms a part of this specification.

My invention relates to improvements in ball feed-lubricators, which are required to have motion during the feed of oil. The oiler belongs to that class which is adapted to movable parts.

The object of the invention is to provide an automatic ball feed-lubricator, which has the points of advantage and simplicity hereinafter pointed out in the specification and claim. The points of advantage may be briefly stated to consist of constructing an oiler or lubricator which is accessible from the bottom and owing to its simplicity may be easily manipulated. Another advantage lies in the relative size of the ball-seat and the ball, owing to which the feed of oil is instantly cut off when the oiler is not in motion.

The drawing comprises a vertical mid-sectional elevation of the oiler.

In a detail description of my invention similar reference characters indicate corresponding parts.

A designates the oil-cup, which may be constructed of any suitable material—for example, glass or metal. This cup is of cylindrical form throughout and has in the bottom thereof an integral ball-cage B of suitable dimensions to house a ball or spherical valve C and to permit of the necessary movement of said ball under the vibrations of the oiler. The upper portion of this cage has a screw-threaded boss D, adapted to receive an adjusting bolt or screw E, which limits the upward movement of the ball, according to the depth which said screw is made to penetrate into the cage. Surrounding said boss at suitable points in the cage there are the requisite number of oil-ports F, through which a communication is had from the oil-cup to the cage. The cage is closed at its bottom by a screw-threaded plug G, which is an integral part of an annular base H, the lower side of said base having a screw-threaded stem I, affording suitable means for attaching the oiler to its moving support. The upper surface of the plug G has a suitable cavity G′, which forms the seat for the ball when said ball is at rest. This ball-seat is of a shape which conforms to the rounded sides of the ball and is entirely occupied when said ball is seated, so that the discharge of the lubricant through the feed-opening J ceases when the oiler is not in motion. The ball is of suitable size relative to the interior of the cage and also relative to the size of the oil-ports F to act as a valve to close the feed through one or the other of said ports at various periods during its motion, so that there is a systematic feed of oil at all times both to the cage and from the cage.

Having described my invention, I claim—

In a motion feed-lubricator, an oil cup or receptacle having an integral semispherical ball-cage on the interior bottom thereof the same having a boss projecting at the top thereof with a screw-threaded opening and a series of oil-ports arranged around the central portion of said cage, a ball within said cage, an adjusting-bolt penetrating said boss and controlling the upward movement of the ball, a screw-threaded plug having a discharge-port, said screw-threaded plug inclosing the bottom of the cage and being of the same diameter, and having a ball-seat in the upper end thereof which is entirely occupied by the ball when said ball is seated, substantially as set forth.

In testimony whereof I affix my signature in presence of two witnesses.

CRAWFORD P. WEST.

Witnesses:
H. S. SHOWERS,
JAMES F. JOHNSON.