

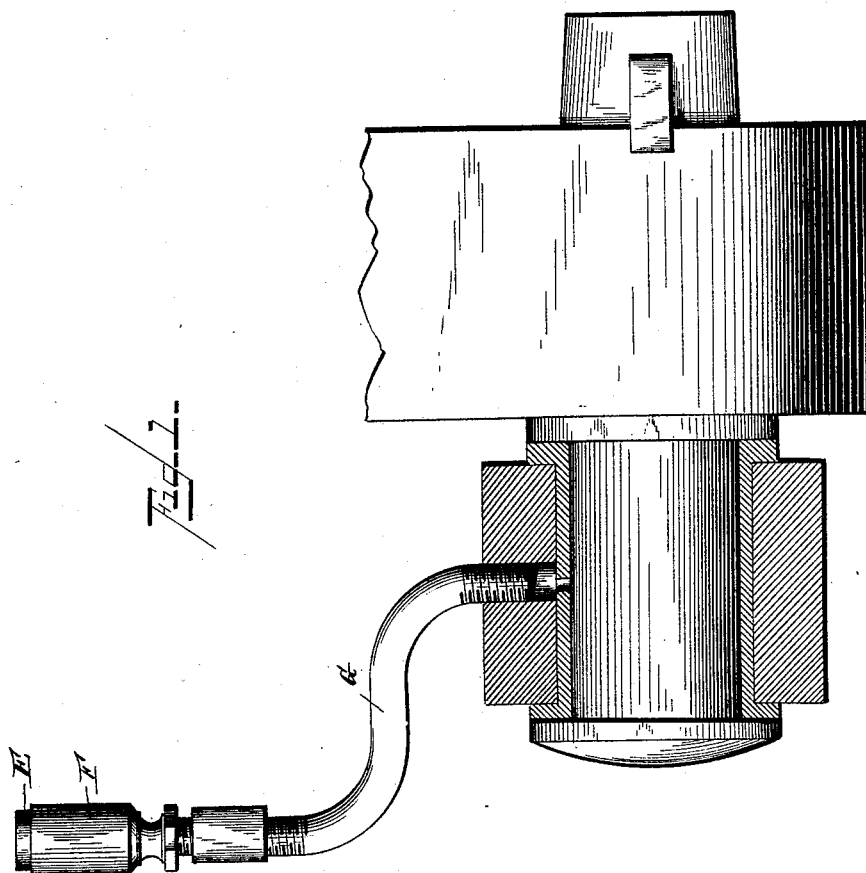
(No Model.)

2 Sheets—Sheet 1.

E. BENNER & W. B. AYRES.
AUTOMATIC OILING DEVICE.

No. 422,284.

Patented Feb. 25, 1890.



WITNESSES:
F. L. Ouraud.
C. P. Kisholm.

INVENTOR:
Elyria Benner and
William B. Ayres
J. Louis Bagger
Attorney

UNITED STATES PATENT OFFICE.

ELWIN BENNER AND WILLIAM B. AYRES, OF PHILLIPSBURG, MONTANA.

AUTOMATIC OILING DEVICE.

SPECIFICATION forming part of Letters Patent No. 422,284, dated February 25, 1890.

Application filed August 15, 1889. Serial No. 320,832. (No model.)

To all whom it may concern:

Be it known that we, ELWIN BENNER and WILLIAM B. AYRES, both residents of Phillipsburg, in the county of Deer Lodge and Territory of Montana, have invented certain new and useful Improvements in Automatic Oiling Devices; and we do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same.

Our invention relates to improvements in automatic oiling devices, and has especial reference to a device for automatically lubricating such parts of machinery or engines as the crank-pins and cross-heads; and the object of the invention is the production of an inexpensive device which will supply the lubricant in the desired quantity to the parts of the machine.

The invention consists of a stationary oil-feeding device and a device carried by the movable part of the machine for receiving and delivering the oil to the part to be lubricated.

The invention also consists in the novel construction, combination, arrangement, and adaptation of the parts comprising the oiler, all as shown, described, and specifically claimed.

In the accompanying drawings, forming part of this specification, and in which like letters of reference indicate corresponding parts, Figure 1 represents a side elevation, partly in section, of an automatic oiler embodying our invention in position for use; and Fig. 2 represents a side elevation of a steam-engine with our improved oiler in position thereon for lubricating the desired parts of the same. Fig. 3 represents a side elevation of an automatic oiler upon an enlarged scale.

Referring by letter to said drawings, A designates a cup for containing the oil or lubricant, to the lower portion of which is secured the sleeve B, having sight-openings, and to said sleeve is secured the supply or feed pipe C, which is bent as shown, and is provided with a feed opening or outlet D. Below said outlet D is the porous conductor E, made of manila or other suitable material, which will

conduct oil, and said conductor is placed in a cup F, from which leads the pipe G for conveying the oil to the part of the machinery to be oiled, which, in this instance, is the wrist-pin of an engine.

The device is supported on a stand H of suitable construction.

From the foregoing description, taken in connection with the drawings, the operation of our device will be readily understood, and is as follows: The stationary cup is filled with oil, which passes from thence in limited quantity to the feed-opening of the pipe, and the movable cup carrying the porous conductor causes said conductor to move near the feed-opening and take a certain amount of the oil, and thus feed the same by means of the conductor to the desired part of the machinery, and thus keep the same lubricated at all times.

It will thus be seen that we provide a device which automatically supplies the oil to the machinery, and which will supply only enough to insure proper lubrication and avoid wasting the oil.

The advantages of our device will be readily understood and appreciated by all skilled in the art.

Having thus fully described our invention, what we claim as new, and desire to secure by Letters Patent, is—

The herein-described oiling device, consisting of the standard carrying the horizontal support, the U-shaped pipe secured at its ends to the horizontal support and having a feed-opening, the oil-cup communicating with said pipe, and the cup having porous material to receive the oil, said cup being attached to a movable part of the machinery, substantially as described.

In testimony that we claim the foregoing as our own we have hereunto affixed our signatures in presence of two witnesses.

ELWIN BENNER.
WILLIAM B. AYRES.

Witnesses:

JAMES B. RISQUE,
JAMES STUART.