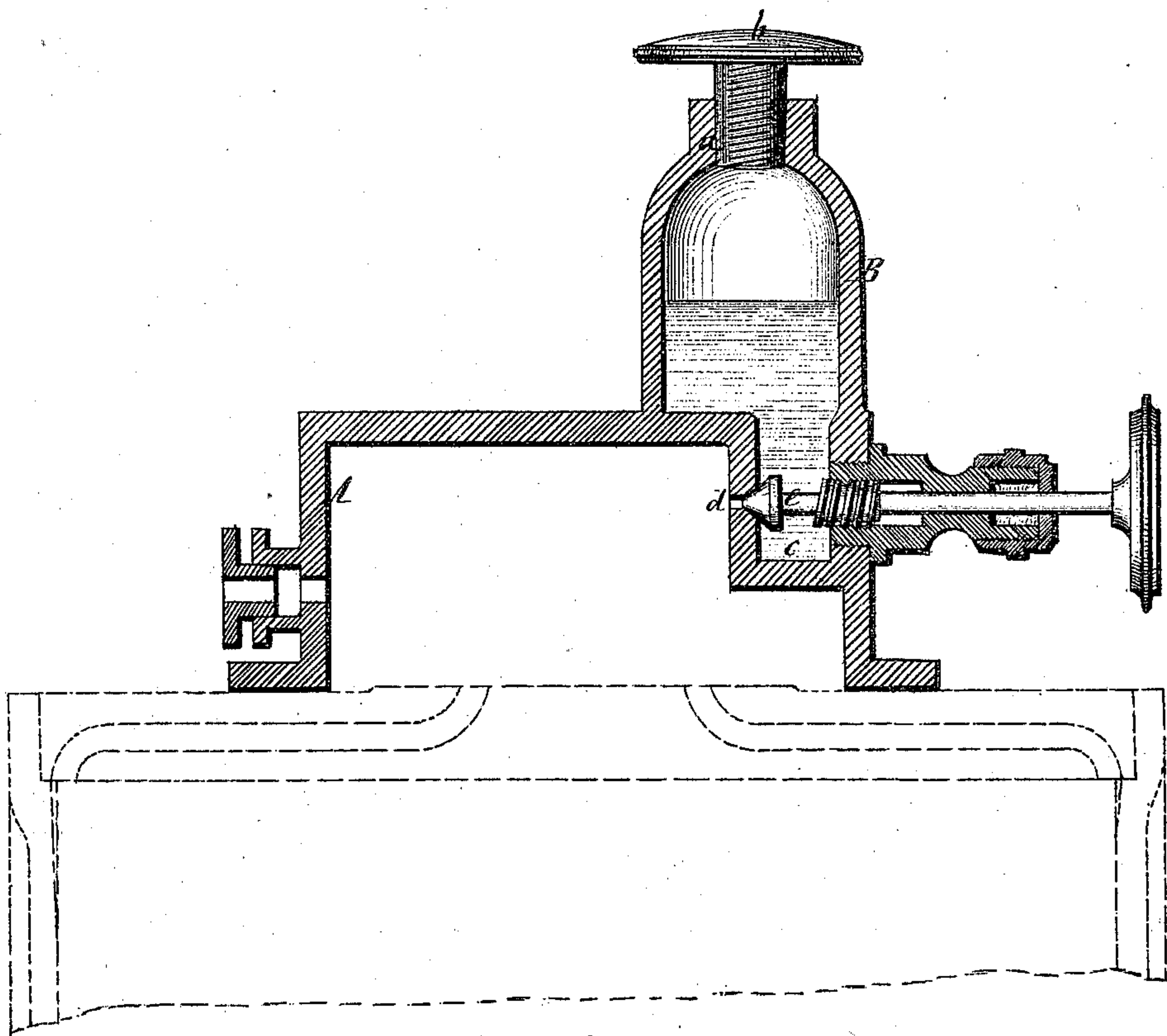


A. S. Cameron,

Lubricator.

No. 97,354.

Patented Nov. 30. 1869.



Witnesses.

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A. S. CAMERON, OF NEW YORK, N. Y.

Letters Patent No. 97,354, dated November 30, 1869.

LUBRICATOR.

The Schedule referred to in these Letters Patent and making part of the same

To all whom it may concern:

Be it known that I, A. S. CAMERON, of the city, county, and State of New York, have invented a new and improved Lubricating-Attachment to the Valve-Chests of Steam-Engines; and I do hereby declare the following to be a full, clear, and exact description thereof, which will enable those skilled in the art to make and use the same, reference being had to the accompanying drawing, forming part of this specification, which drawing represents a longitudinal vertical section of this invention.

This invention consists in a reservoir cast solid with the valve-chest of a steam-engine, or with the cover or any other part thereof, provided with a closely-fitting cover or plug, and with an opening leading to the interior of the valve-chest, in such a manner that said reservoir is capable of containing a supply of oil or other lubricating-material, which runs down into the valve-chest by its own gravity.

The opening leading from the oil-reservoir to the interior of the valve-chest may be provided with a stop-valve, so that the flow of oil into the valve-chest can be regulated or stopped at pleasure.

With the oil-reservoir is combined a mud-box, for the purpose of collecting and retaining the impurities contained in the lubricating-material.

In the drawing—

The letter A designates the valve-chest of a steam-engine, of the usual form and construction.

On this valve-chest, and solid with the same, or its cover, I cast a reservoir, B, to which access can be had through an aperture, *a*, which is provided with a closely-fitting cover or plug, *b*.

Said reservoir is furnished with a mud-box, *c*, and with an aperture, *d*, which leads into the valve-chest, so that the lubricating-material contained in the reservoir B will run down into the valve-chest, and the slide-valve and other parts of the engine will be lubricated without requiring any extra attention.

The mud-box serves to collect and retain such impurities as may be mixed with the lubricating-material.

The aperture *d*, which forms the communication between the reservoir B and the interior of the valve-chest, may be provided with a stop-valve, *e*, so that the flow of the lubricating-material from the reservoir in the valve-chest can be regulated or stopped at pleasure.

If the mouth of the reservoir is stopped by the plug *b*, and the stop-valve *e* is opened, the lubricating-material will flow from the reservoir into the valve-chest, even if the steam is on, but if the stop-valve is left off, and the lower part of the reservoir is filled with lamp-wick, or other absorbent material, the flow of the lubricating-material into the valve-chest can be so regulated that not more than the requisite quantity passes in, and that no lubricating-material is wasted.

By casting the reservoir B solid with the valve-chest, much labor and expense are saved, and, furthermore, a novel, substantial, and distinguishing appearance is given to my valve-chest.

What I claim as new, and desire to secure by Letters Patent, is—

1. The reservoir B, cast solid with the valve-chest A, or with a part thereof, and provided with a closely-fitting cover or plug, *b*, and with an aperture, *d*, leading into the valve-chest, substantially as described.

2. The mud-box *c*, forming a part of the reservoir B, cast solid with the valve-chest A, or a portion thereof, substantially as set forth.

3. The stop-valve *e*, in combination with the reservoir B, cast solid with the steam-chest A, or a part thereof, substantially as described.

A. S. CAMERON.

Witnesses:

W. HAUFF,

E. F. KASTENHUBER.