

(No Model.)

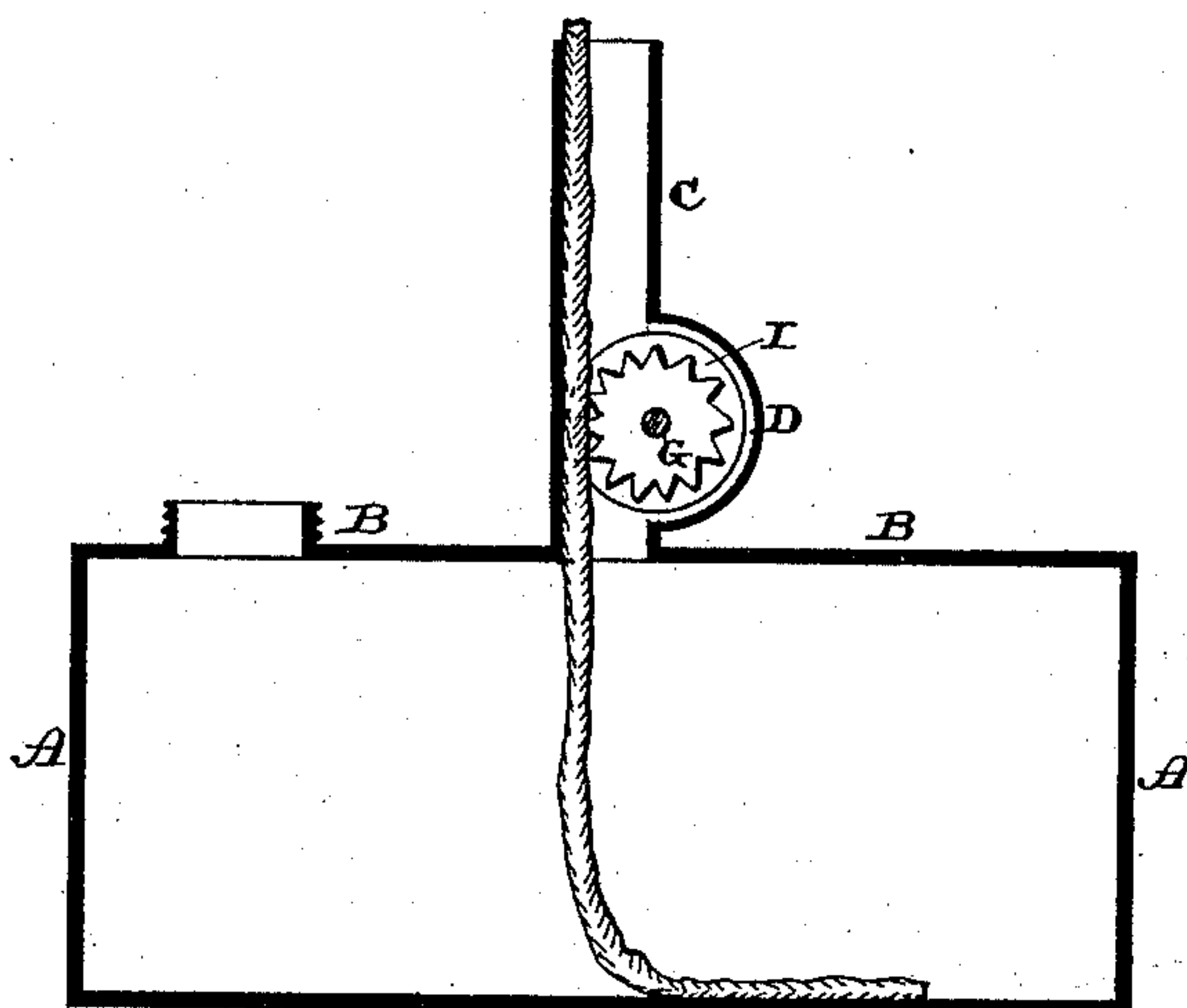
Z. DAVIS.

OIL STOVE.

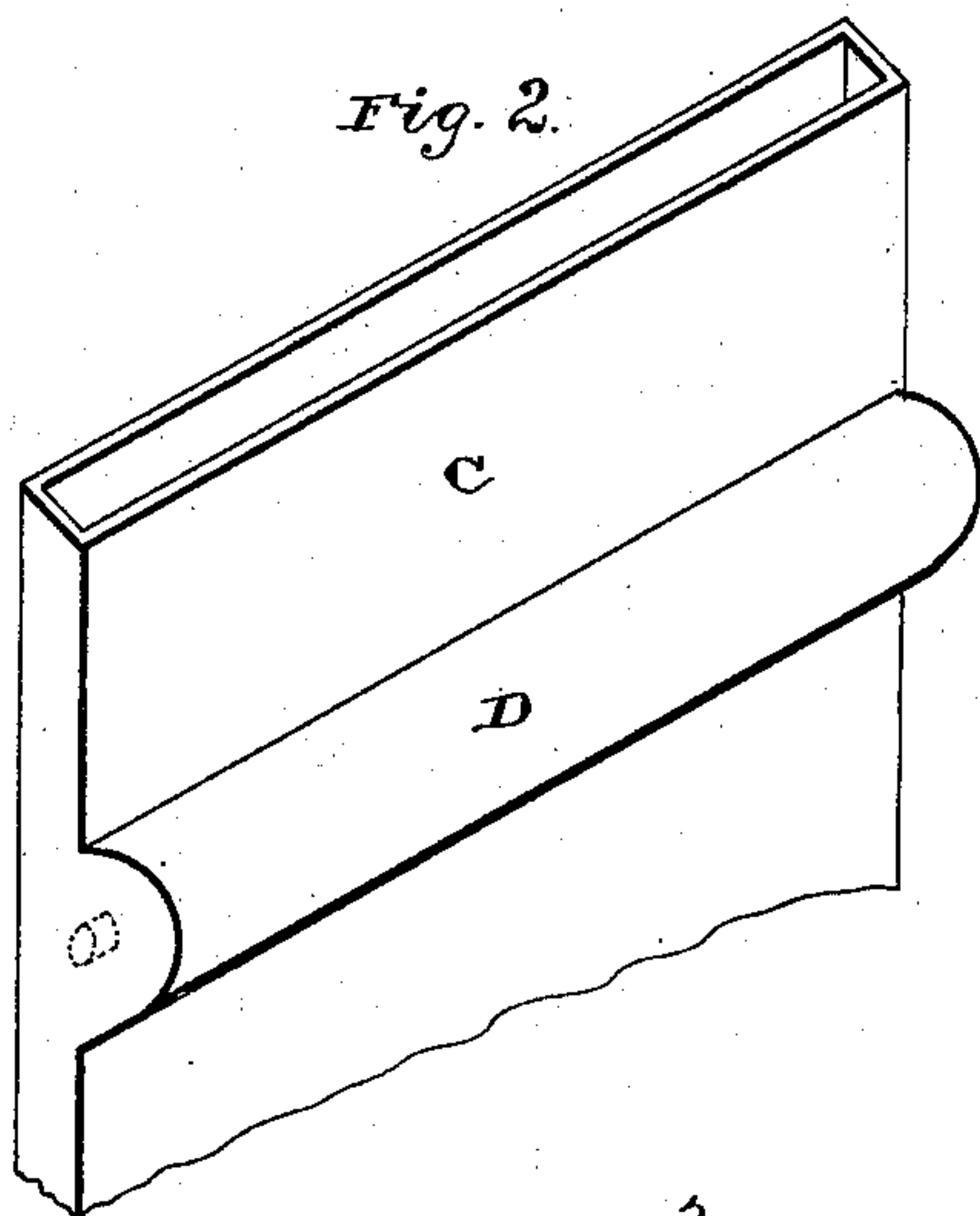
No. 316,751.

Patented Apr. 28, 1885.

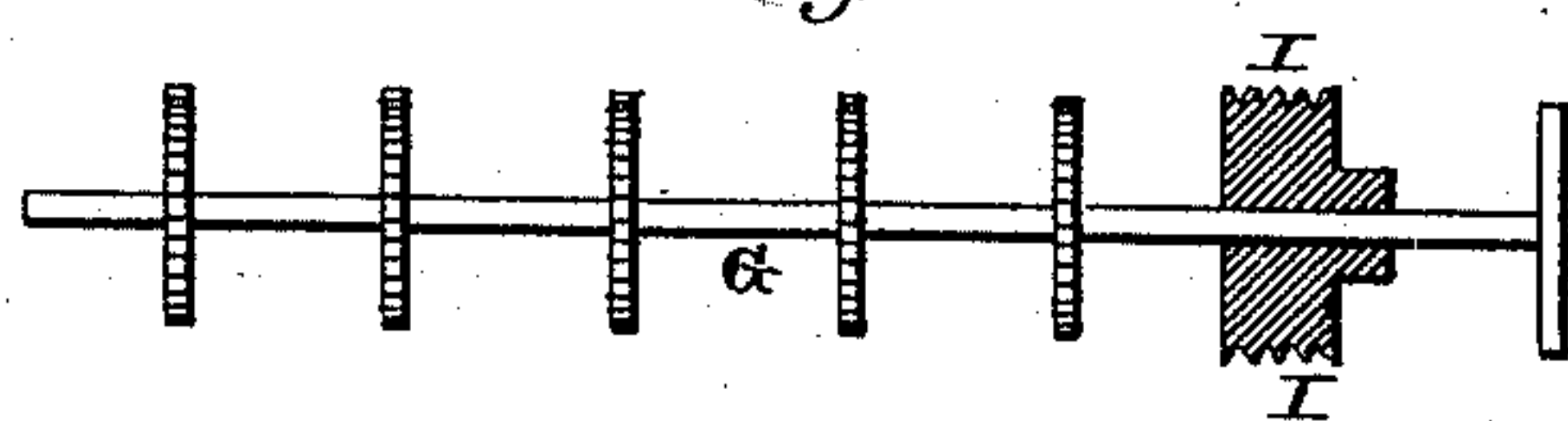
*Fig. 1.*



*Fig. 2.*



*Fig. 3.*



WITNESSES

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# UNITED STATES PATENT OFFICE.

ZEBULON DAVIS, OF CLEVELAND, OHIO.

## OIL-STOVE.

SPECIFICATION forming part of Letters Patent No. 316,751, dated April 28, 1885.

Application filed December 8, 1884. (No model.)

*To all whom it may concern:*

Be it known that I, ZEBULON DAVIS, of Cleveland, in the county of Cuyahoga and State of Ohio, have invented certain new and useful Improvements in Oil-Stoves; and I do hereby 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 pertains to make and use it, reference being had to the accompanying drawings, which form part of this specification.

My invention relates to an improvement in oil-stoves; and it consists in a cylinder or barrel, which is cast on one side of the wick-tube, and which has an opening through one end to admit the ratchets and shaft to which they are secured, and which opening is closed by means of a plug placed upon the shaft, as will be more fully described hereinafter.

The object of my invention is to cast the reservoir, its lid, the wick-tube, and the cylinder or barrel on the side of the tube in one solid piece, so as to dispense with all joints in the stove as heretofore made, which joints are liable to leak, and, where held together by solder, to come apart from the heat to which they are exposed, and from which the vapor and the gas from the oil escape and ignite, thus proving a source of danger.

Figure 1 represents a vertical cross-section of a stove-reservoir embodying my invention. Figs. 2 and 3 are detail views of the same.

A represents the reservoir of an oil-stove; B, its lid or cover; C, the wick-tube, and D the cylinder or barrel upon its side, all of which are cast in one solid piece. As heretofore formed these parts have been generally made in separate pieces and then connected together in any suitable manner. When made separately and put together with solder, the heat causes the joints to open, and then the gas and vapor from the oil escape and frequently cause the stove to catch on fire. By casting all the parts of the reservoir in one piece, as here shown, all joints are done away with, and the stove is rendered safer than where the reservoir is constructed of more than one piece.

In order to provide for the ready and easy insertion of the ratchet-shaft and the ratchets connected thereto, an opening is made through one end of the barrel large enough to allow the ratchets to pass through. Before the ratchets are placed upon the shaft G the screw-plug 1 is slipped upon the shaft, and the ratchets are secured rigidly in position. The plug is just large enough to snugly fit the screw-threaded opening in the end of the barrel, and thus form a tight joint, which cannot be affected by heat. In the inner side of the opposite end of the wick-tube from the opening is made a recess to receive the inner end of the shaft, and thus center it in position.

Heretofore it has been customary to cast the cylinder or barrel on the side of the tube and make a small hole through one end, and through this small hole the end of the shaft is passed, but without any of the ratchets secured thereto. The ratchets are then passed down into the tube and placed upon the shaft. This method takes up too much time and requires skillful work, all of which is done away with by my invention.

I am aware that it is not new to cast a reservoir-lid, wick-tube, and ratchet-box in a single piece, and this I disclaim.

Having thus described my invention, I claim—

1. The combination of the wick-tube, the cylinder cast as a part thereof, and having an enlarged opening in one end, with the ratchet-shaft, the ratchets placed thereon, and the screw-plug for closing the opening, substantially as shown.

2. The combination of the reservoir, lid, wick-tube, and cylinder, all cast in a single piece, with the plug for closing the opening in the end of the barrel, the ratchet-shaft, and the ratchets on the shaft, substantially as set forth.

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

ZEBULON DAVIS.

Witnesses:

MYRON T. HERRICK,  
RICHARD M. PARMELY.