

(No Model.)

W. H. WILDER.
VALVE.

No. 561,638.

Patented June 9, 1896.

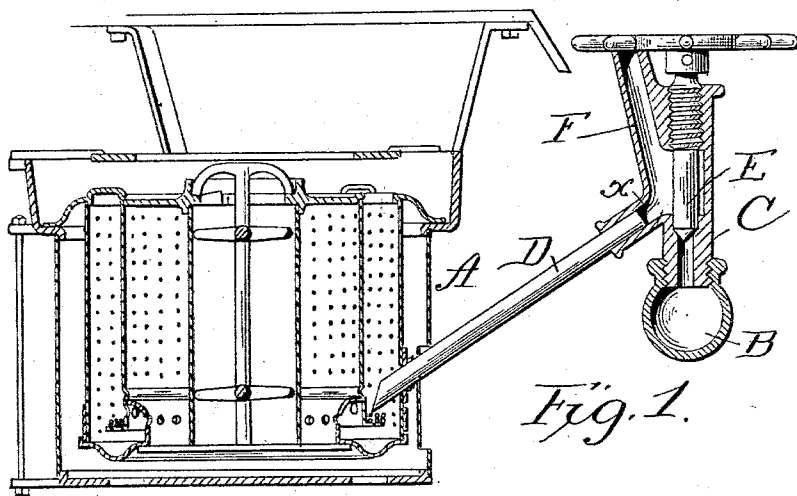


Fig. 1.

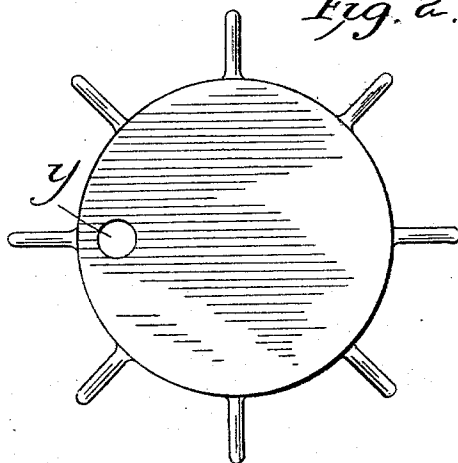


Fig. 2.

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UNITED STATES PATENT OFFICE.

WILLIAM H. WILDER, OF NORTHAMPTON, MASSACHUSETTS.

VALVE.

SPECIFICATION forming part of Letters Patent No. 561,638, dated June 9, 1896.

Application filed June 21, 1895. Serial No. 553,628. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM H. WILDER, a citizen of the United States, residing at Northampton, in the county of Hampshire and State of Massachusetts, have invented certain new and useful Improvements in Valves, of which the following is a specification, reference being had therein to the accompanying drawings.

My invention includes, in a vapor-generating burner adapted to burn heavy oils which are not readily ignited, an oil-supply pipe for said heavy oil leading to the burner, a valve to control the same, and a supplemental feeder for a light easily-ignitable oil connecting with the pipe extending between the burner and the valve in order to feed lighting-oil to the burner while the heavy oil is cut off.

My invention includes also other features hereinafter specifically described, and pointed out in the claims.

In the drawings, Figure 1 is a sectional view through a burner and valve-box, and Fig. 2 a plan view of the valve head or handle.

The burner may be of any ordinary form, being indicated generally by the letter A. The fluid-supply pipe is shown at B and the valve-box at C. From the valve-box a pipe D leads to the burner. The valve E is threaded into the box and is of the ordinary needle form.

Instead of connecting the fluid-supply pipe with the valve-box at a point between the valve-seat and the handle of the valve (as has sometimes been done) the said connection is made on the side of the valve-seat opposite to that on which the handle and the threaded connection of the valve is located, so that when the valve is closed the fluid will be shut off from the valve-box as well as from the burner, and there will be no tendency for the fluid to leak through the box at the point of connection between the valve-spindle and the box, and when the valve is opened and the fluid admitted to the box it will find a free outlet from the box to the burner through the port *x* and the conduit D.

I have provided a supplemental inlet for oil at F for the purpose of lighting the burner and heating the same preparatory to turning

on the main supply of oil through the valve and valve-box. This inlet-nipple extends upwardly, connecting at its lower end with the pipe D, and its upper end lies below the disk of the handle, which has an opening through it to register with the opening in the inlet-nipple when the handle is turned to close the valve on its seat, as shown in the figure. A light oil may then be poured through the opening *y* into the nipple and thus will run into the burner through the pipe D and be distributed therein, which being ignited will heat the burner, after which the main supply may be admitted to the burner by operating the valve. When the valve is opened, the opening *y* in the handle will be moved out of line with the nipple F and the solid part of the nipple will serve as a cover for the opening.

I claim—

1. In combination in a vapor-generating burner adapted to burn heavy oils which are not readily ignited, an oil-supply pipe for said heavy oil leading to the burner, a valve to control the same and a supplemental feeder for a light easily-ignitable oil connecting with the pipe between the burner and the valve whereby said lighting-oil may be fed to the burner while the heavy oil is cut off.

2. In combination, the burner, the valve-box having the valve-seat and valve, the fluid-supply pipe, the outlet-pipe for the fluid from the box to the burner, a supplemental feeder for a lighting fluid and means to open the same when the valve is seated and to cover it when the valve is open, substantially as described.

3. In combination, the burner, the valve-box having the valve-seat and valve, the fluid-supply pipe, the outlet-pipe for the fluid from the box to the burner, the supplemental feeder connected with the burner, and the perforated valve-handle to open and close the said feeder in closing and opening the valve, substantially as described.

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

WILLIAM H. WILDER.

Witnesses:

HENRY E. COOPER,
F. L. MIDDLETON.