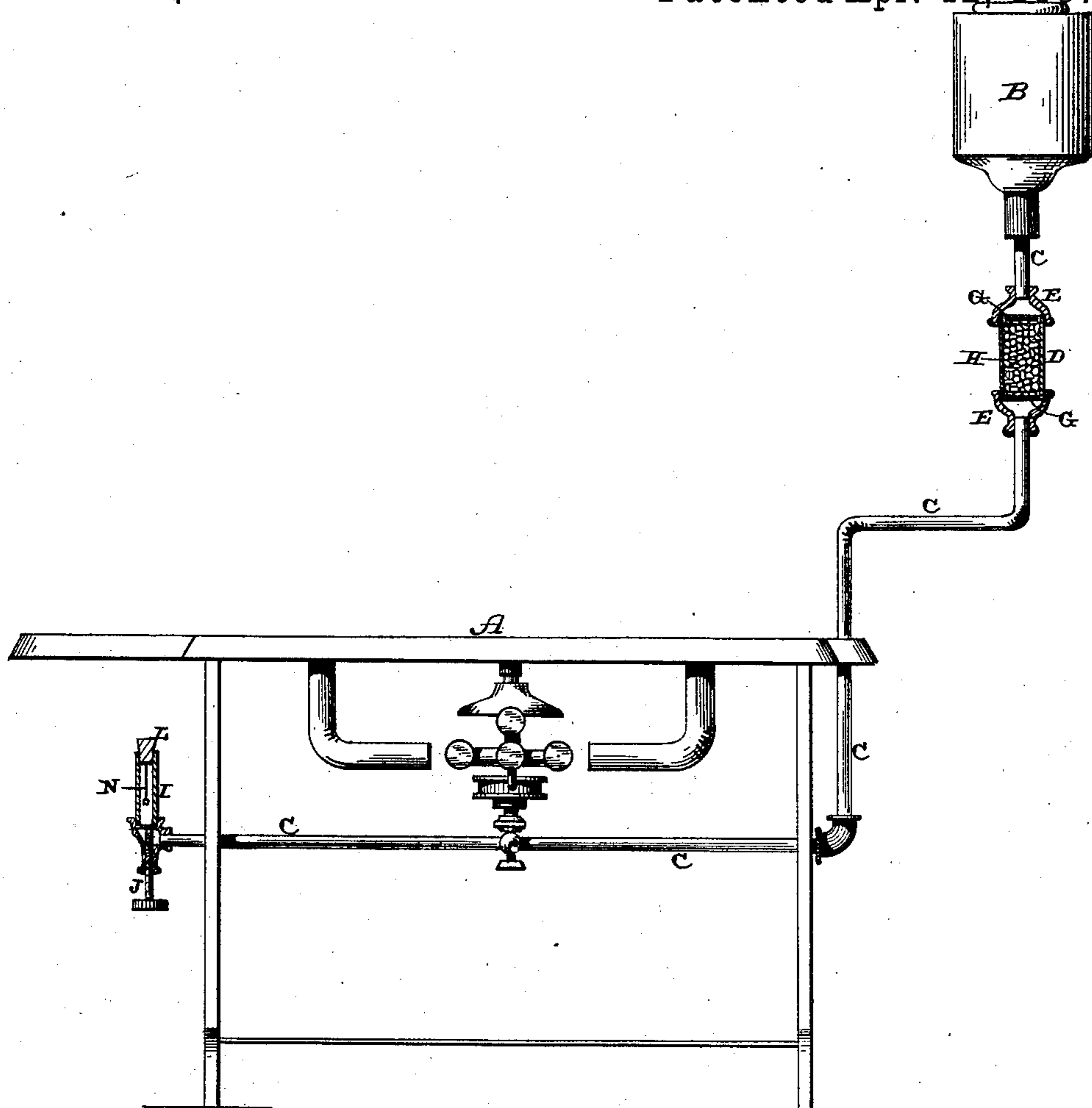


(No Model.)

F. A. LYMAN.
VAPOR STOVE.

No. 361,170.

Patented Apr. 12, 1887.



Witnesses.

L. F. Gardner
A. W. Brecht.

Inventor.

F. A. Lyman,
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att'y.

UNITED STATES PATENT OFFICE.

FORDYCE ALLEN LYMAN, OF CLEVELAND, OHIO.

VAPOR-STOVE.

SPECIFICATION forming part of Letters Patent No. 361,170, dated April 12, 1887.

Application filed July 13, 1886. Serial No. 207,886. (No model.)

To all whom it may concern:

Be it known that I, FORDYCE ALLEN LYMAN, of Cleveland, in the county of Cuyahoga and State of Ohio, have invented certain new and useful Improvements in Vapor-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 drawing, which forms part of this specification.

My invention relates to an improvement in vapor-stoves; and it consists in an attachment for the pipe upon which the burners are located, whereby a suitable quantity of the gasoline is admitted to a cup or holder in which a lighting device is placed, so that all of the other burners can be lighted after the first one is lighted, and thus dispense with the use of matches or paper for this purpose, all of which will be more fully described hereinafter.

The accompanying drawing represents a vapor-stove to which my improvements are attached, the improvements being shown in section.

A represents a vapor-stove of the ordinary construction, B the reservoir, and C the supply-pipe leading therefrom. Placed at any suitable point in this supply-pipe, between the reservoir and the burners, is the cylinder D, of suitable length and diameter, and which is provided with a screw coupling-nut, E, at each of its ends. This cylinder is provided with snugly-fitting perforated plates G at its ends, and in between these plates is placed a suitable packing or filtering material, H, of any kind that may be preferred. In the present instance the cylinder is filled with fine gravel, shot, or other similar substance which will allow the gasoline to flow freely through, but which will prevent any pulsating movement as it passes through the pipe between the burners and the cylinder. The pressure of the vapor in the pipe will often force back the supply of fluid toward the reservoir, and then the fluid in the rebound will cause a pulsating movement in the pipe, and this movement will cause the burners to blow and produce an unsteady flame. The packing and the perforated plates in the cylinder, while they permit

the fluid to flow freely through, will not permit the fluid to pulsate in the pipe, and hence a steady supply to the burners is always insured.

The burners of the stove being separated, after one of them has been lighted the others must be lighted from this burner by means of a match or piece of paper, and which match or paper, being only partially consumed, is generally thrown upon the floor, and thus causing so much dirt. In order to prevent this I attach to the supply-pipe, at one end of the stove, a cup or cylinder, I, which has the opening through its bottom controlled by a screw plug or valve, J, of any kind, and which is provided at its top with a cover, L, to which an ordinary-lighting device, N, is attached. By opening the screw-plug the cup or cylinder will be filled to any desired point above the lighter with gasoline. After the first burner has been lighted it is only necessary to light this lighter, which is saturated with gasoline, and then the other burners of the stove can be lighted without the use of matches or paper. This lighting device forms a permanent attachment to the stove, and is always in position ready to be used, and not only forms a very handy and convenient attachment for the stove, but saves the use of matches or paper, as above described.

Having thus described my invention, I claim—

1. The combination, with the supply-pipe of a vapor-stove, of a cup or cylinder which is connected thereto, a valve for controlling the flow of the fluid into the cup or cylinder, and a lighting device, substantially as set forth.

2. In a vapor-burner, the combination of the supply-pipe, a cup or cylinder which is secured upon its end outside of the frame of the burner, a valve for controlling the flow of the fluid into the cup, and the cover for the cup provided with a lighting device, substantially as specified.

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

FORDYCE ALLEN LYMAN.

Witnesses:

F. E. BLISS,

D. C. HOWARD.