

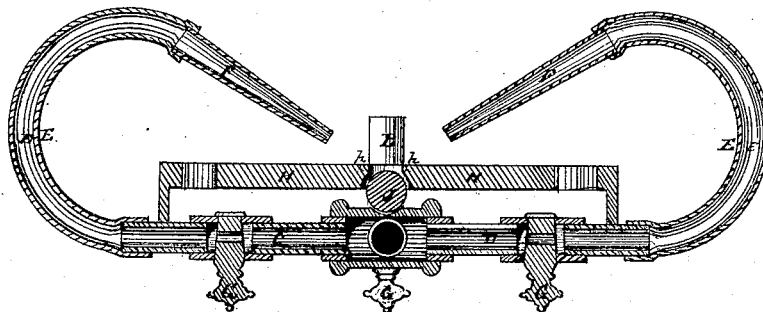
R. B. MITCHELL.

Vapor Stove.

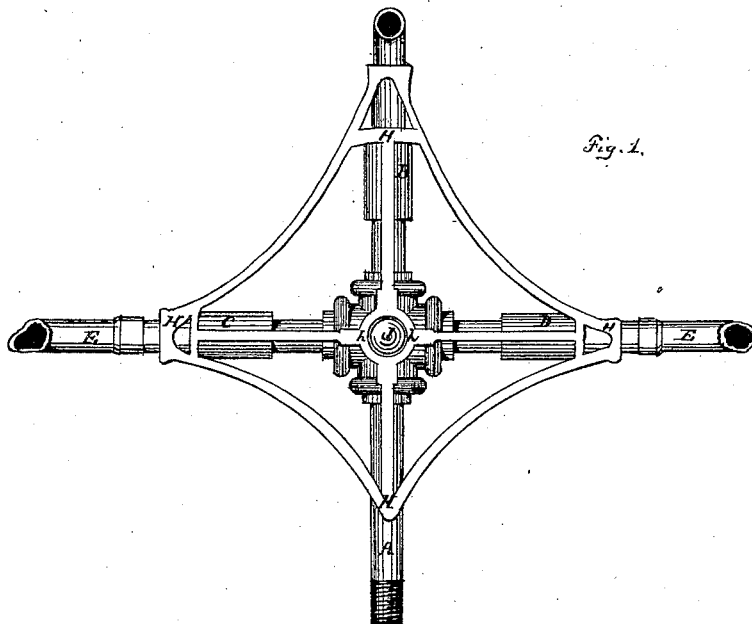
No. 112,948.

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*Fig. 2.*



*Fig. 1.*



*Witnesses;*

*W. Munday*  
*L. L. Coburn*

*Inventor;*

*Robert B. Mitchell*

# United States Patent Office.

ROBERT B. MITCHELL, OF CHICAGO, ILLINOIS.

Letters Patent No. 112,948, dated March 21, 1871; antedated March 10, 1871.

## IMPROVEMENT IN STEAMING ATTACHMENTS FOR KEROSENE-STOVES.

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

I, ROBERT B. MITCHELL, of Chicago, in the county of Cook and State of Illinois, have invented certain Improvements in Steaming Attachment for Kerosene-Stoves, of which the following is a specification.

In stoves which burn kerosene or other oil as fuel it is highly desirable that there should be provision for utilizing all the heat and economizing space.

My invention relates to an apparatus to be attached to the water-reservoir, which is generally part of a kerosene-stove, and which, in some stoves of this class, is constructed to surround the chimneys of the lamps or burners for the purpose of supplying warm water for cooking and other purposes; and

It consists of four pipes, in the form of a cross, having at the center a ball-valve to insure a safe and regular exhaust of steam into the open air.

One of said pipes is connected to the boiler or heater; the opposite one communicates with a cooking-vessel, which may be placed upon a frame-work resting upon said pipes.

Flexible tubes are attached to the other two pipes, which tubes terminate in nozzles of a suitable metal.

All of said pipes, excepting the one which communicates with the heater or boiler, are furnished with stop-cocks with which to shut off or regulate the supply of steam.

The flexible tubes are for the purpose of conveying hot steam into vessels other than the one resting upon the frame-work above mentioned, which may be readily done by inserting therein the nozzles of the said flexible tubes; or, if desired, the said nozzles may be inserted in the vessel resting upon the frame-work, and all the steam conveyed and distributed in different parts of the same vessel.

In the drawing—

Figure 1 is a plan view of my invention, and

Figure 2, a transverse vertical central section of the same.

A is the pipe communicating with the water-heater.

B is the pipe connected to the vessel in which is placed the food to be cooked by steam.

C D are the pipes to which are attached the flexible tubes E E, made of rubber or other suitable material, and furnished with nozzles F F.

G G G are the several stop-cocks.

H is the frame-work to support the cooking-vessel.

J is a ball-valve, which rests upon and closes by its weight a countersunk opening communicating directly with the pipes A B C D, at the center of the junction thereof.

This ball acts as a safety-valve, and is held in its place by the frame-work H, which, immediately above said ball, is constructed with an opening surrounded by the ring h, which permits a slight play to the ball and at the same time prevents it from rolling off.

By my invention, as will be readily seen, the capacity of an ordinary kerosene-stove is greatly increased at a small expense.

The whole attachment may be very cheaply made, of ordinary gas-pipe, with an iron casting for the frame-work, and can be supplied by manufacturers to the public at a very low price.

Having thus described my invention,

I claim as an article of manufacture—

1. The steaming attachment above described, consisting of the pipes A B C D, frame-work H, flexible tubes E E, with their nozzles F F, stop-cocks G, &c., and ball-valve J, all constructed, arranged, and operating substantially as described, and for the purpose specified.

2. The combination of the tubes A B C D with the frame-work H and the ball valve J, substantially as and for the purpose specified.

Witnesses: ROBERT B. MITCHELL.

J. W. MUNDAY,  
LEWIS L. COBURN.