

(No Model.)

S. LIGHTBURNE, Jr.  
GASOLINE STOVE.

No. 322,387.

Patented July 14, 1885.

Fig. 7.

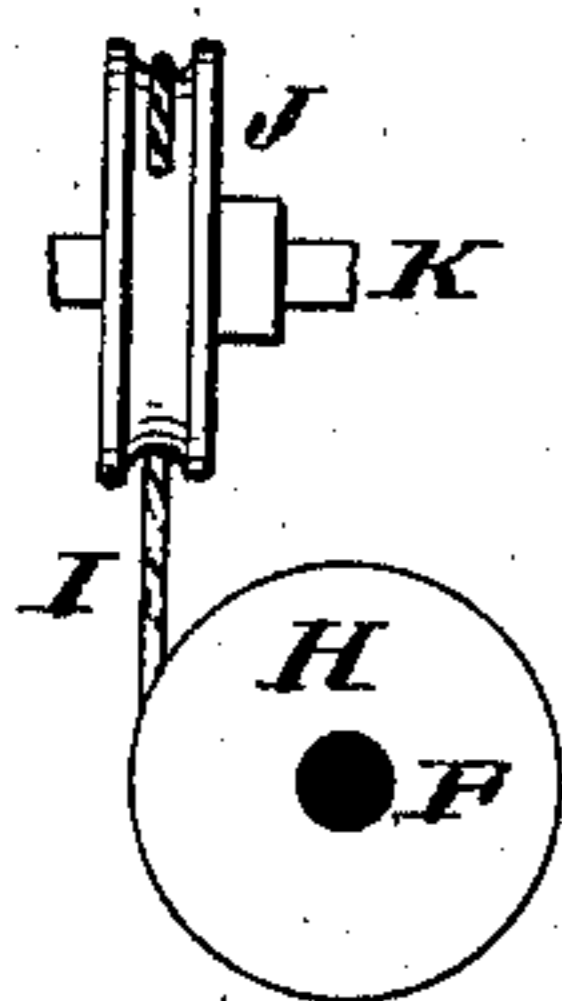


Fig. 8.

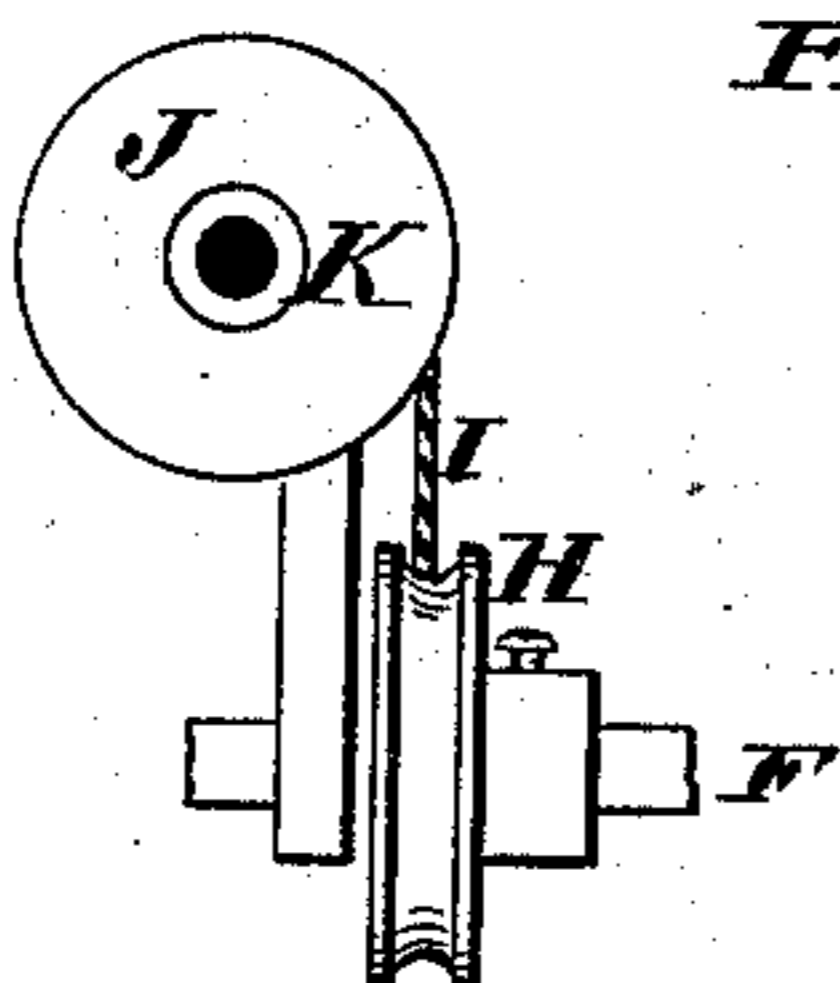


Fig. 10, Fig. 11.

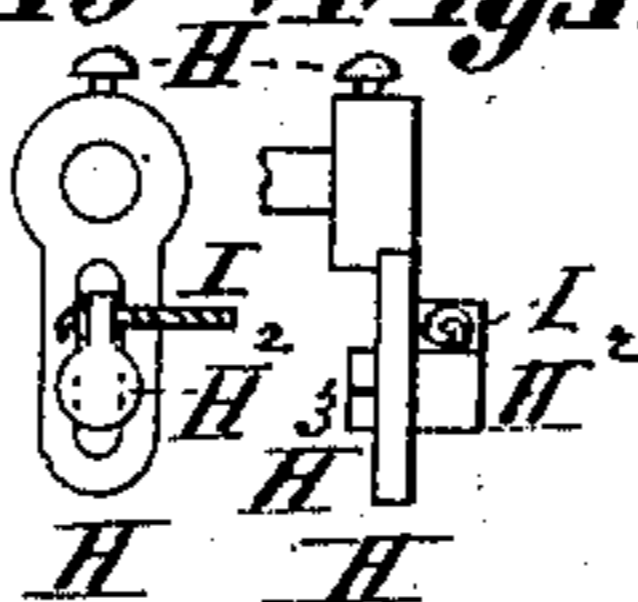


Fig. 1.

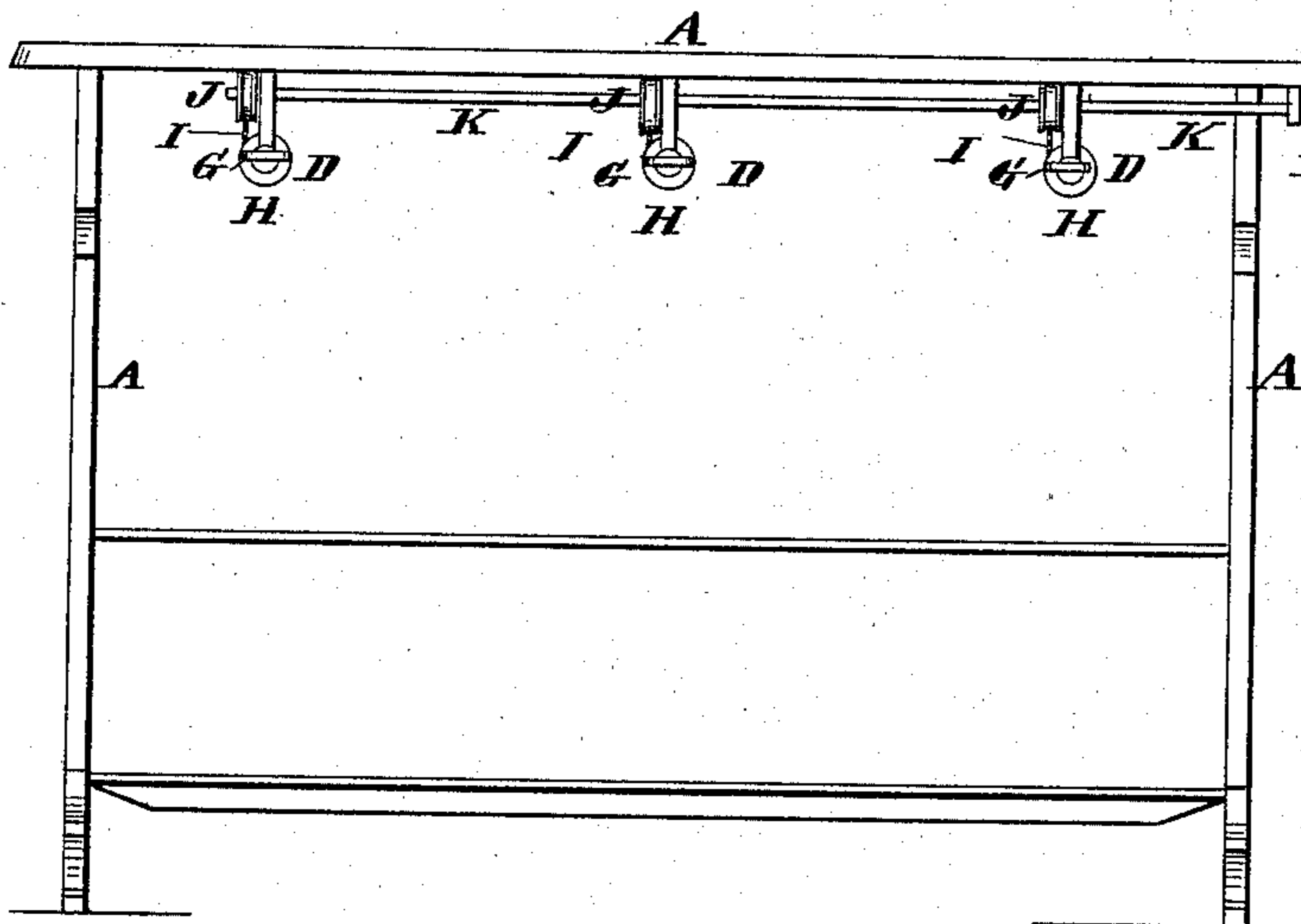


Fig. 2.

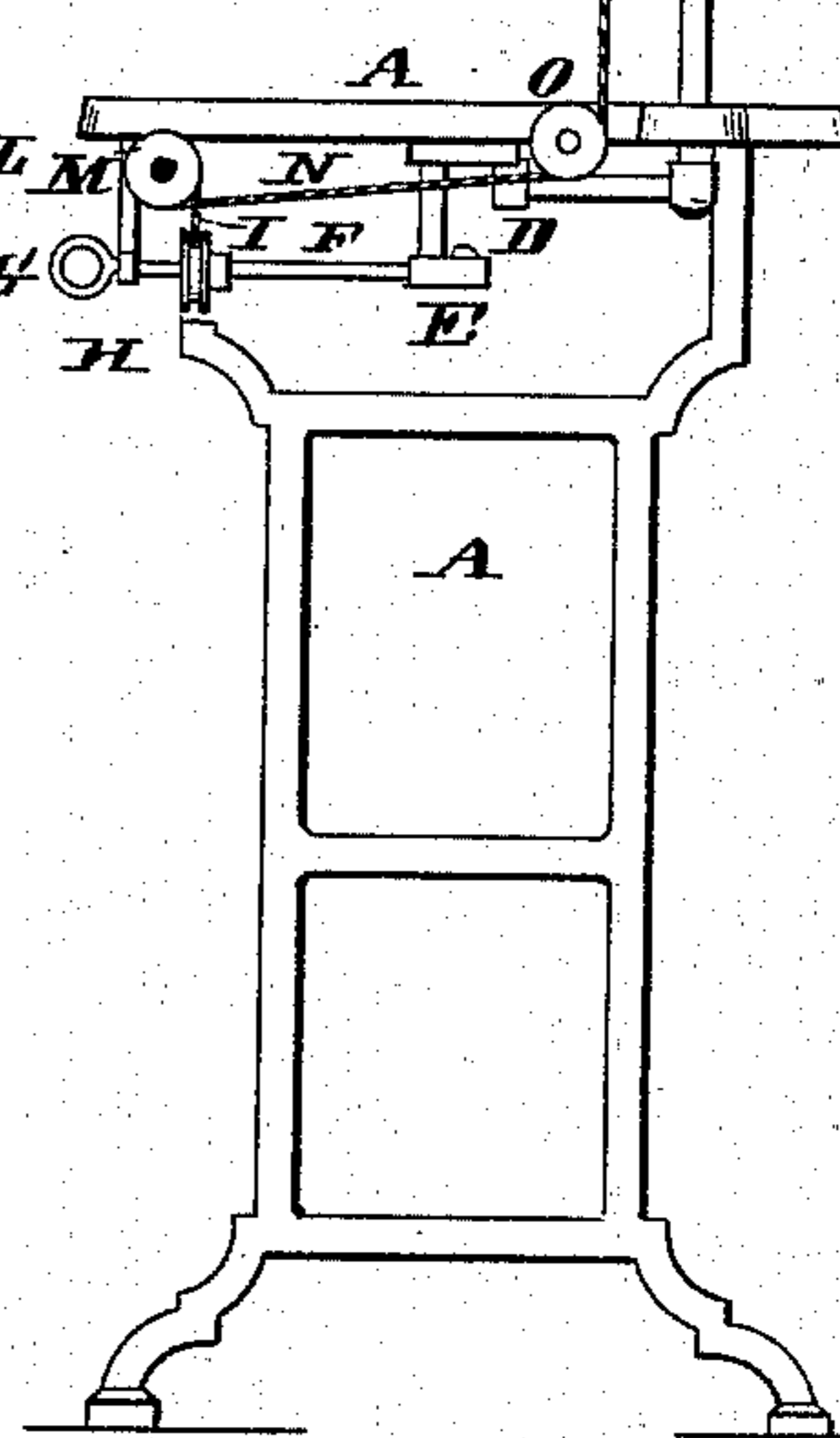


Fig. 3.

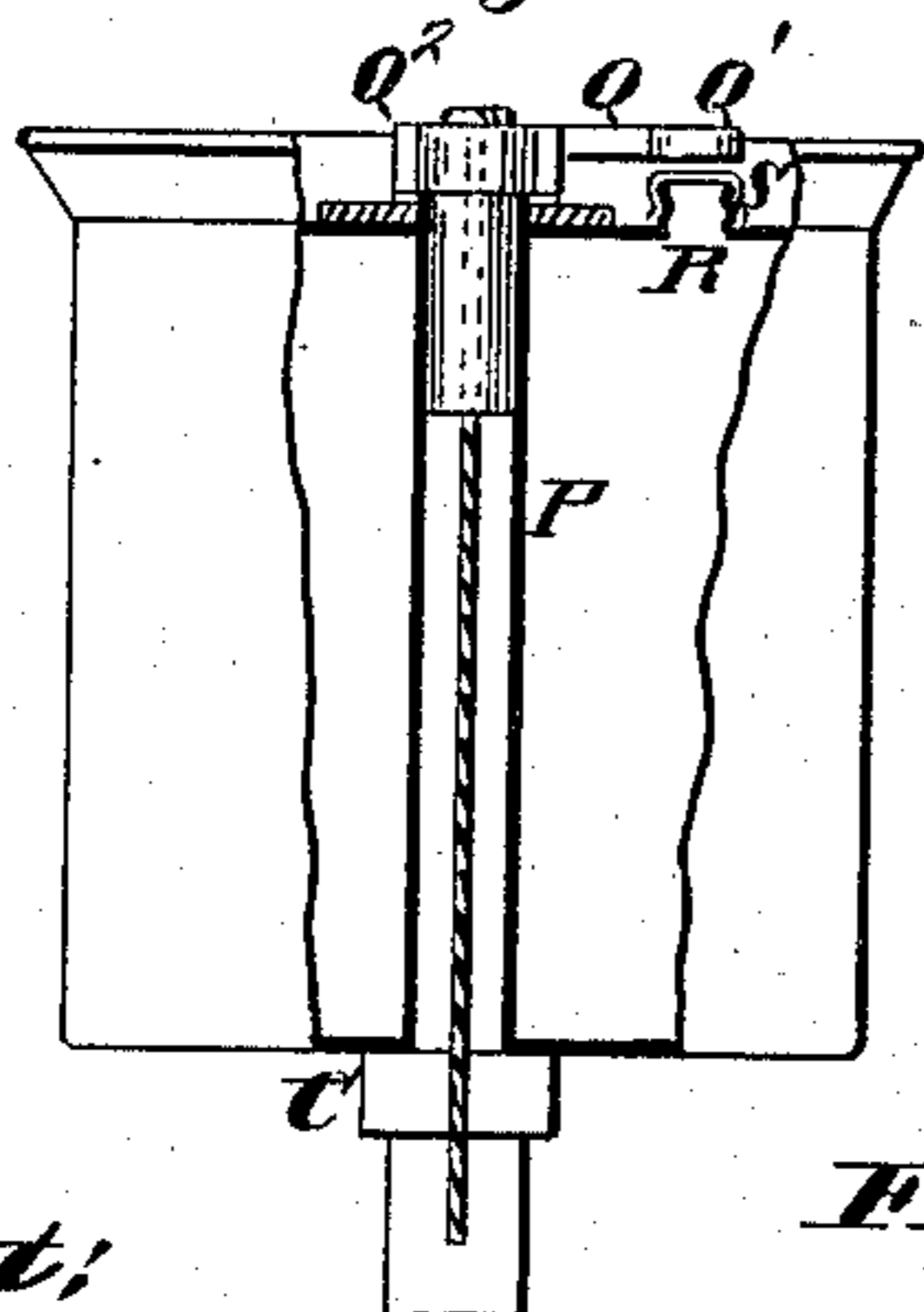


Fig. 4.

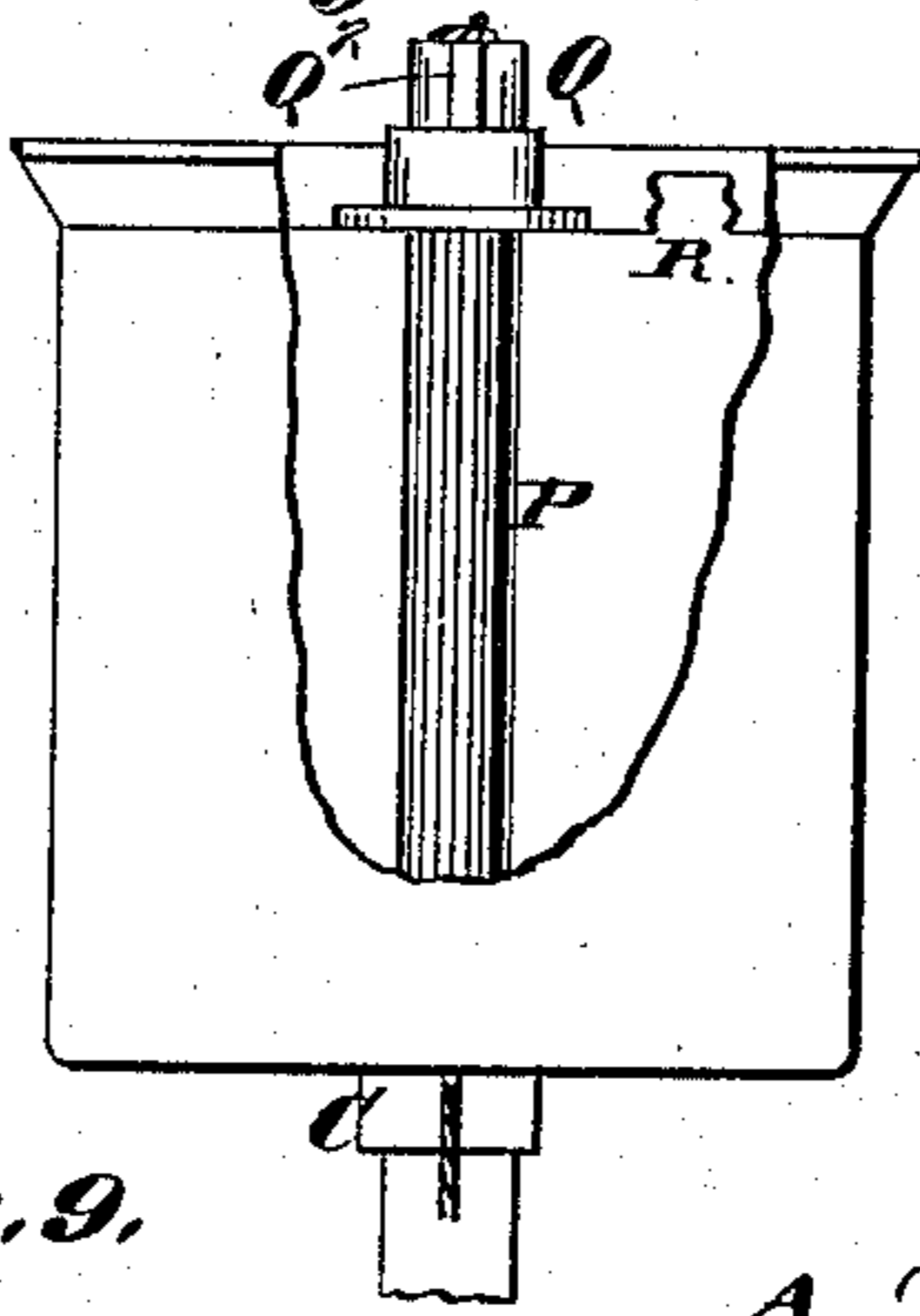


Fig. 5.



Fig. 6.

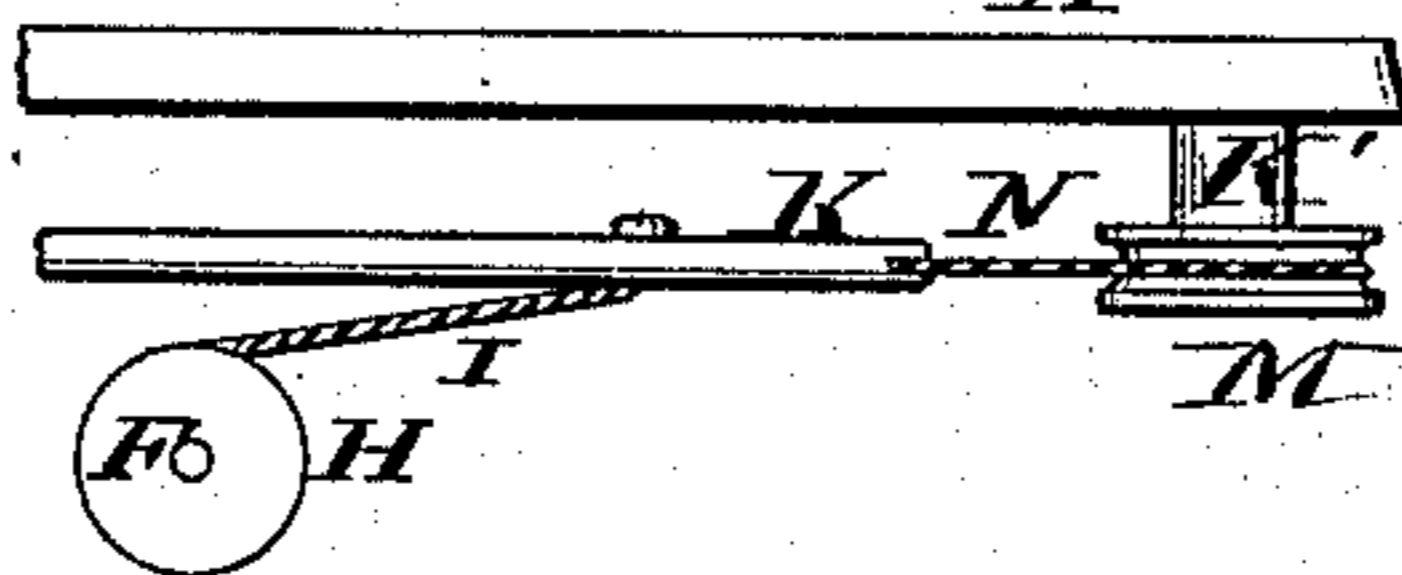


Attest:

Charles Pickles

Geo. L. Wheelock

Fig. 9.



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# UNITED STATES PATENT OFFICE.

STAFFORD LIGHTBURNE, JR., OF ST. LOUIS, MISSOURI.

## GASOLINE-STOVE.

SPECIFICATION forming part of Letters Patent No. 322,387, dated July 14, 1885.

Application filed January 19, 1885. (No model.)

*To all whom it may concern:*

Be it known that I, STAFFORD LIGHTBURNE, Jr., of the city of St. Louis, in the State of Missouri, have invented a certain new and useful Improvement in Gasoline-Stoves, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming part of this specification.

10 This is a device to insure the closed condition of the burner-valves of a gasoline-stove when the reservoir is open.

Figure 1 is a front elevation of a gasoline-stove having my improvement applied thereto. Fig. 2 is an end elevation of the stove. Fig. 3 is an enlarged side view of the reservoir with part broken out and the tube through which the valve-closing cord passes shown in section. In this figure the reservoir is closed and the button in position to prevent the removal of the cap. Fig. 4 is a similar view to Fig. 3, except that the button is swung around, the cap removed, and the cord-tube is shown in side view. Fig. 5 is a top view of the button. Fig. 6 is a top view of the cord-tube. Figs. 7 and 8 are details (enlarged) showing the connection between the pulley-shaft and one of the burner-valve stems. Figs. 9, 10, and 11 are detail views showing modifications.

A is the stand or frame, which may be of any form, and may have as many burners as desired, (three burners being shown.)

35 B is the reservoir, and C a pipe leading to the burners D, to each of which is a valve, E, as usual.

F is the stem, by which each valve is operated in the usual manner by a thumb-piece, G.

40 Upon each of the stems F of the cocks or valves E is secured a grooved pulley, H, to which is secured one end of a cord or chain, I, whose other end is attached to a grooved pulley, J, upon a shaft, K, extending longitudinally below the top of the frame A. Upon this shaft is a hand-wheel, L, by which the shaft may be turned to close simultaneously all of the cocks or valves E. Each valve is opened separately by its thumb-piece G.

50 Upon the shaft K is a grooved pulley, M, to which is attached one end of a cord or chain, N, which extends beneath the idler-pulley O,

and upward from such pulley through the tube P, which extends vertically through the reservoir. The upper end of the cord or chain is attached to the button Q, the construction and arrangement of the parts being such that the button cannot be lifted unless all the burner-valves are closed. The part of the tube P extending above the top of the reservoir has notches P' P<sup>2</sup>, which receive, respectively, the arm Q' of the button and a projection or stud, Q<sup>2</sup>, thereon when the button is in its lower position, as seen in Fig. 3. When the button is in this position, the arm Q' covers the nipple R, through which the gasoline is poured in filling the reservoir, so that the screw-cap S of the nipple cannot be removed, and even if the cap should be taken off and the button restored to its lower position the arm Q' would still prevent the filling of the reservoir.

When it is desired to fill the reservoir, the shaft K is turned, (so as to close any burner-valves that may be open,) the shaft being turned by means of the hand-wheel L, and this renders the cord or chain N slack, so that the button may be raised from the notches P' P<sup>2</sup> and swung around so as to carry the arm Q' from over the nipple R, and the screw-cap can be removed. (See Fig. 4.)

In the modification shown in Fig. 9 the cords or chains I are attached to a rod, K, moving endwise in its bearings, and secured to the cord N, so as not to allow the lifting of the button Q when either of the burner-valves is open. In this case the pulley M is horizontal, turning on a vertical arbor, K', depending from the top of the frame or table A.

As an equivalent of the pulleys H the stems F may have arms H fixed to them by set-screws H', with movable eyes H<sup>2</sup> for the attachments of the cords or chains I. These eyes are shown adjustable in slots of the arms, and may be held in position by nuts H<sup>3</sup> or by any other means.

I claim—

1. The combination, with a frame, a burner, a reservoir having a filling-orifice and a device guarding said orifice, a supply-pipe leading from said reservoir to said burner, and a valve in said pipe, of a cord or chain connected to said valve, a cord or chain connected to said guarding device, and a hand-shaft

to which said cords or chains of said valve and said guarding device are connected, substantially as set forth.

2. The combination, with a frame, a burner,  
5 a reservoir having a filling-orifice and a device guarding said orifice, a supply-pipe leading from said reservoir to said burner, and a valve in said pipe, of a hand-shaft connections between said hand-shaft and said guarding  
10 ing device, pulley upon said valve, pulley upon said hand-shaft, and a cord or chain connecting said pulleys, substantially as set forth.

3. The combination, with a frame, a burner,  
15 a reservoir having a filling-orifice, a supply-pipe leading from said reservoir to said burner, and a valve in said pipe, of a guarding-button for said orifice in said reservoir, a hand-shaft having pulleys, a pulley upon said

valve, cord or chain connecting said button to a pulley upon said hand-shaft, and a cord 20 or chain connecting said pulley upon said valve to another pulley upon said hand-shaft, substantially as set forth.

4. The combination, with a frame, a burner, a supply-pipe leading to said burner, and a 25 valve in said pipe, of a reservoir having a filling-orifice, a tube formed with notches, and a button engaging said notches and guarding said orifice, a hand-shaft connection between said button and said hand-shaft, and connec- 30 tion between said valve and said hand-shaft, substantially as set forth.

STAFFORD LIGHTBURNE, JR.

In presence of—

GEO. H. KNIGHT,

SAML. KNIGHT.