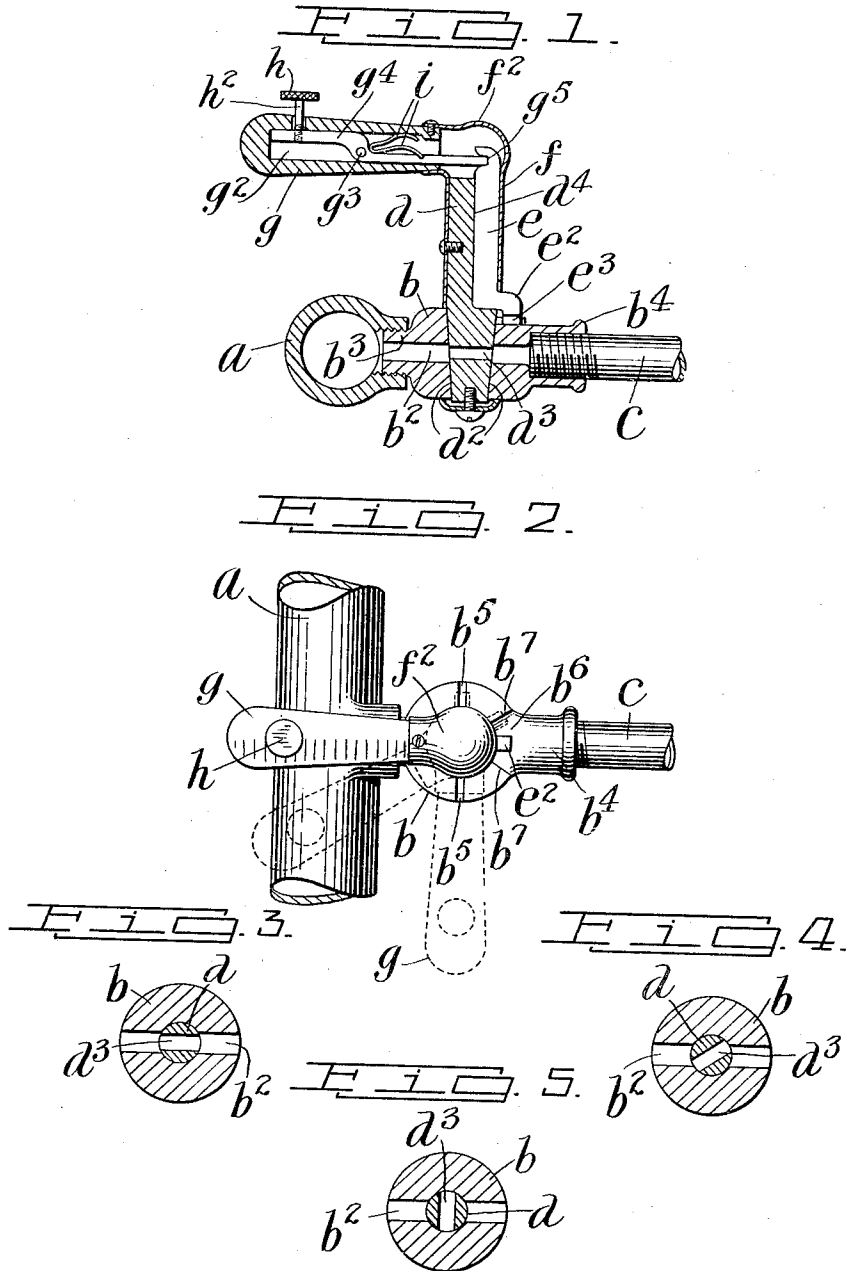


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SAFETY VALVE FOR GAS STOVES.  
APPLICATION FILED MAY 11, 1914.

1,121,024.

Patented Dec. 15, 1914.



Witnesses:  
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# UNITED STATES PATENT OFFICE.

LOUIS KNEZEK, OF WOODHAVEN, NEW YORK.

SAFETY-VALVE FOR GAS-STOVES.

1,121,024.

Specification of Letters Patent.

Patented Dec. 15, 1914.

Application filed May 11, 1914. Serial No. 837,732.

*To all whom it may concern:*

Be it known that I, LOUIS KNEZEK, a citizen of the United States, and residing at Woodhaven, Long Island, in the county of Queens and State of New York, have invented certain new and useful Improvements in Safety-Valves for Gas-Stoves, of which the following is a specification, such as will enable those skilled in the art to which it appertains to make and use the same.

This invention relates to safety valves for gas stoves, ranges and the like, and the object thereof is to provide an improved device of this class which will prevent the accidental turning on of the gas when the burner or burners are not ignited; a further object being to prevent the accidental turning off of the gas when ignited, and with these and other objects in view the invention consists of a device of the class specified, constructed and operating as herein described.

The invention is fully disclosed in the following specification, of which the accompanying drawing forms a part, in which the separate parts of my improvement are designated by suitable reference characters in each of the views, and in which;—

Figure 1 is a sectional side view of my improved valve; Fig. 2 a plan view thereof; and, Figs. 3, 4, and 5 diagrammatic sectional views of the valve and showing it in different positions.

In the drawing forming part of this specification, I have shown at *a* a gas supply pipe such as is usually employed in connection with gas stoves or ranges and with which, in practice, a number of valve devices, one for each burner of the stove or range, are employed, the valve device shown comprises a valve body *b* having the usual transverse bore *b*<sup>2</sup> and provided on one side with a threaded coupling neck *b*<sup>3</sup> and on the opposite side with a coupling neck *b*<sup>4</sup> having an interior thread and with which the pipe *c* which leads to the burner is connected.

Mounted vertically in and passing through the valve body *b* is a valve plug *d*, the end of which that passes through the valve body *b* being tapered as shown at *d*<sup>2</sup>, and said valve plug is provided with a transverse bore *d*<sup>3</sup> which corresponds with the bore *b*<sup>2</sup> in the valve body.

The top surface of the valve body *b* is

provided in the opposite sides thereof with radial recesses *b*<sup>5</sup>; and in the front side portion of said body and in the top surface thereof, is a wide radial recess *b*<sup>6</sup>, the opposite side walls of which are preferably beveled outwardly as shown at *b*<sup>7</sup>. The front side of the valve plug *d*, or that side thereof in the direction of the stove or range, is provided with a longitudinal groove or recess *d*<sup>4</sup>, and mounted therein is a vertically movable lock bar *e* and the body portion of said valve plug, above the valve body *b*, is inclosed by a tubular casing *f* which holds the lock bar *e* in position, and said lock bar is provided at its lower end with a forwardly directed finger piece *e*<sup>2</sup> having a nose *e*<sup>3</sup> adapted to enter the recesses *b*<sup>5</sup> and *b*<sup>6</sup>.

The tubular casing *f* which incloses the body of the valve plug *d*, in the construction shown, is formed into an elbow *f*<sup>2</sup> with which is connected a handle *g* having a central longitudinal bore *g*<sup>2</sup> and pivoted in said bore *g*<sup>2</sup> at *g*<sup>3</sup> is a lever *g*<sup>4</sup>, the front end of which enters a recess *g*<sup>5</sup> in the top end of the lock bar *e*, and I also provide a press button *h* having a shank *h*<sup>2</sup> which passes loosely through the top of the handle *g* and is screwed into or otherwise connected with the outer end of the lever *g*<sup>4</sup>, and a spring *i* is placed between the front end portion of said lever and the top wall of the bore *g*<sup>2</sup> in the handle *g*, and said spring operates through the lever *g*<sup>4</sup> to hold the lock bar *e* in operative position.

When the nose *e*<sup>3</sup> of the lock bar *e* is in the recess *b*<sup>6</sup> the valve plug may be manipulated by the handle *g* so as to fully open the valve as shown in Fig. 3, or it may be turned in either direction so as to partly open it as shown in Fig. 4, in which position a small pilot flame may be maintained at all times, and the valve may be turned so as to permit of a full flow of gas to the burner whenever desired. In order to cut off the flow of gas entirely the valve may be turned so that the nose *e*<sup>3</sup> of the lock bar *e* will enter either of the recesses *b*<sup>5</sup>, and this position of the valve is shown in Fig. 5. The recess *b*<sup>6</sup> extends through an arc, approximately, of 60 degrees, and in order to turn the valve freely in either direction beyond the limits of the recess *b*<sup>6</sup>, the press button *h* must be forced inwardly so as to withdraw the nose piece *e*<sup>3</sup> of the bar *e* and permit of the free turning of the valve plug.

The spring *i* always serves to automatically force the lock bar *e* into operative position. With this improvement it will be impossible to accidentally turn the valve plug, when the flow of gas is cut off, and while the valve, when in the position shown in Fig. 2, may be accidentally turned within certain limits, it can never be turned so as to fully cut off the flow of gas, and as long as the valve plug is in this position the burner will be ignited, and this, as will be understood, prevents the accidental turning of the valve so as to permit of a flow of gas when the burner is not ignited.

15 Having fully described my invention, what I claim as new and desire to secure by Letters Patent, is:—

20 A valve device of the class described comprising a valve body having a central bore, the top surface of which is provided in the

opposite sides thereof with radial recesses and between said recesses with an arc-shaped radial recess, and a valve plug which projects above the valve body and is provided with a longitudinally movable lock- 25 bar having a nose-piece adapted to enter either radial recess and to move laterally in the arc-shaped recess, said valve plug being also provided with a handle in which is mounted a spring operated lever, one end of 30 which engages said lock-bar.

In testimony that I claim the foregoing as my invention I have signed my name in presence of the subscribing witnesses this 8th day of May 1914.

LOUIS KNEZEK.

Witnesses:

C. MULREANY,  
H. E. THOMPSON.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."