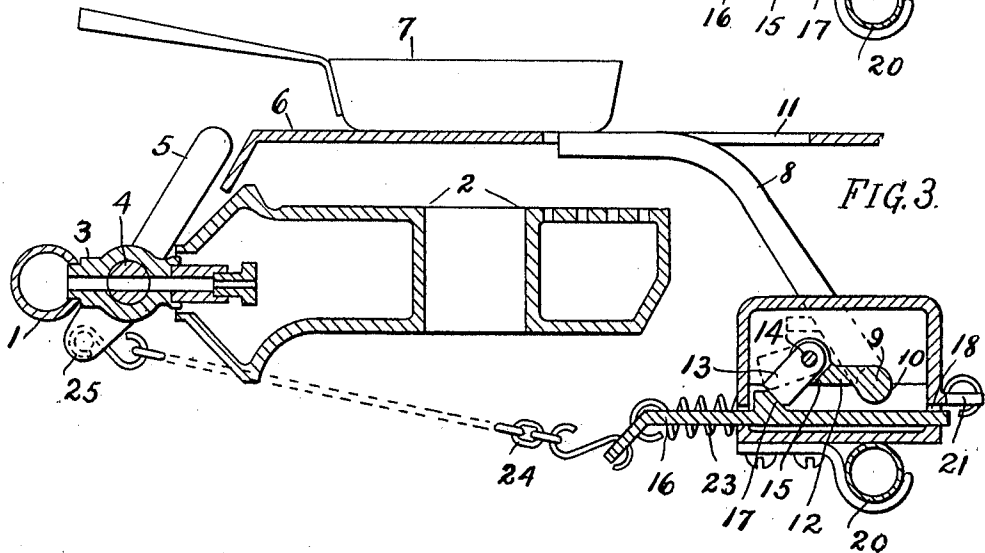
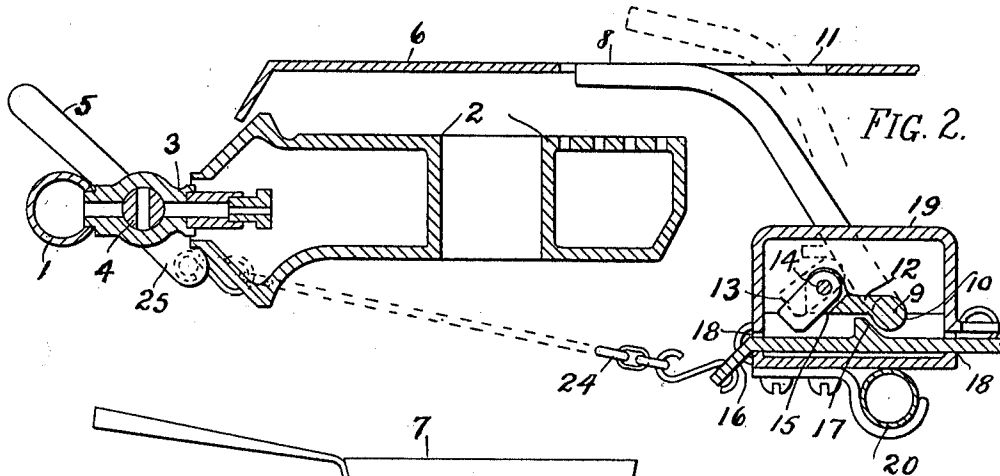
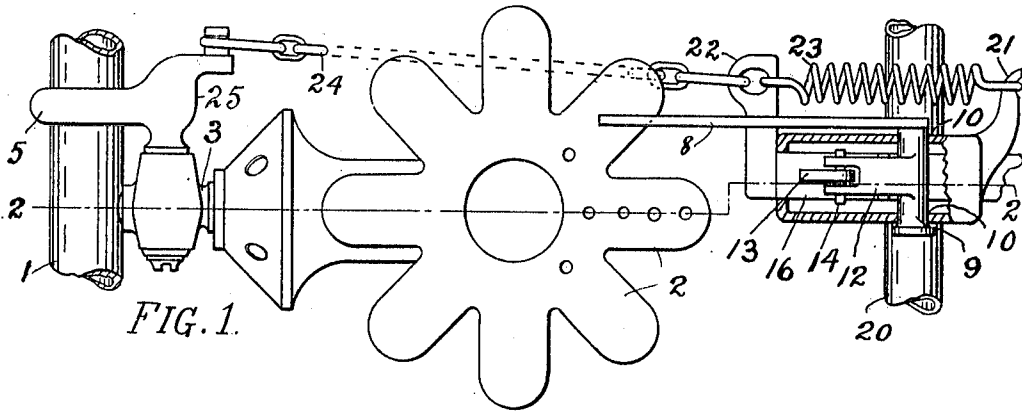


C. B. STILWELL.  
GAS STOVE.  
APPLICATION FILED FEB. 24, 1909.

984,314.

Patented Feb. 14, 1911.



Witnesses:  
J. G. Wemyss  
Thomas James Davis

Inventor:  
Charles B. Stilwell  
By Charles H. Butler  
Atty

# UNITED STATES PATENT OFFICE.

CHARLES B. STILWELL, OF WAYNE, PENNSYLVANIA.

GAS-STOVE.

984,314.

Specification of Letters Patent. Patented Feb. 14, 1911.

Application filed February 24, 1909. Serial No. 479,721.

*To all whom it may concern:*

Be it known that I, CHARLES B. STILWELL, a citizen of the United States, residing at Wayne, in the county of Delaware and State of Pennsylvania, have invented certain Improvements for Gas-Stoves.

My invention comprises improvements for gas stoves whereby the gas is automatically turned off upon removing a vessel or other article which has been placed upon the stove in position to be heated.

The characteristic features of my improvements are fully disclosed in the following description and the accompanying drawings in illustration thereof.

In the drawings, Figure 1 is a plan view of apparatus embodying my improvements with parts broken away; Fig. 2 is a sectional elevation thereof taken on the line 2—2 of Fig. 1; and Fig. 3 is a sectional elevation on the same line showing a second position of the mechanism.

The apparatus, as illustrated in the drawings, comprises the gas supply pipe 1, the burner 2, the discharge duct or nozzle 3 leading from the supply pipe to the burner, the valve 4 having the lever 5 for controlling the flow through the duct, and the rest 6 for supporting an article to be heated as the skillet 7.

A lever arm 8, having the journal 9 adapted to rock in the bearings 10, is provided with a bent outer end which is adapted to move through the slot 11 in the rest 6, and fixed to the journal 9 is the arm 12, which acts as a bearing for the oscillating detent 13; the detent being connected to the arm 12 by the pintle 14 and resting normally on the seat 15 thereof.

A slide 16, having the lug 17 thereon, is adapted to reciprocate in the ways or bearings 18 of the box or casing 19, which is supported on the stove bar 20, the casing inclosing the parts 12, 13 and 17 and having in the walls thereof the bearings 10. An arm 21 on the rear end of the casing and an arm 22 on the forward end of the slide are connected by a coiled spring 23 which acts to hold the slide in the position shown in Fig. 2. A tension member, as the chain 24, connects the forward end of the slide 16 and the arm 25 of the lever 5.

When the apparatus is not in use, the coiled spring 23 holds the slide 16 and valve 4 in the positions shown in Fig. 2. When it is desired to use the apparatus, the

lever 5 is operated to place the valve 4 and slide 16 in the position shown in Fig. 3, the detent 13 now engaging the lug 17, where it is held by placing the vessel 7 on the rest 6 and the lever 8. When the vessel 7 is removed and the lever 8 released, the spring 23 draws back the slide and closes the valve, the lug acting through the detent to turn the crank-lever in its bearing until the detent is lifted out of engagement with the lug when the lever drops back to its normal position.

It will be observed that the retraction of the slide 16 by the spring 23, from the position shown in Fig. 3 to the position shown in Fig. 2, elevates the arm 8 to the dotted line position shown in Fig. 2 for an instant only. The arm falls back so that its top-most part lies in the plane of the stove's top or rest 6 as soon as the lug 17 has passed under the detent 13 and it occupies this position at all times excepting during the instant of its elevation by the rearward movement of the lug. Consequently the top of the stove is without obstruction above its level to interfere with the movement of articles thereon as has been the very objectionable character of previous constructions for the general purpose of my apparatus.

Having described my invention, I claim:

1. In a gas stove, a burner, a rest above said burner, a duct leading to said burner, a valve for controlling said duct, mechanism for automatically operating said valve, means movable relatively to said rest and adapted to be engaged by an article on said rest, and a detent for engaging said mechanism and preventing it from operating said valve, said detent being connected with said means and held in engagement with said mechanism by the pressure of said article acting through said means.

2. In a gas stove, a burner, means for supporting an article above said burner, a movable device adapted to lie when at rest beneath the top of said supporting means, a duct leading to said burner, a valve for controlling the flow through said duct, mechanism for automatically closing said valve, and connected with said device a detent for engaging said mechanism and preventing it from operating said valve, said detent being held in position to hold said mechanism by said article on said device, and said detent releasing said mechanism when said article is withdrawn from said device.

3. In a gas stove, a support, a burner be-  
neath said support, a gas duct leading to  
said burner, a valve for controlling said  
duct, a spring, mechanism acted upon by  
5 said spring for closing said valve, a mov-  
able device having its upper part disposed  
when at rest beneath the top of said sup-  
port, and means for opening said valve and  
moving said mechanism against the action of  
10 said spring, and connected with said device  
a detent which automatically engages said  
mechanism in its position when said valve  
is open, said detent being caused to hold  
said mechanism by the action of an article  
15 resting on said device and being automati-  
cally disengaged from said mechanism upon  
the withdrawal of said article from said de-  
vice.

4. In a gas stove, a stationary top, a

burner beneath said top, a duct leading to 20  
said burner, a valve for controlling said  
duct, a lever for operating said valve, a  
slide, means for connecting said lever and  
slide, means adapted to act on said slide to  
close said valve, a rocking arm disposed 25  
when at rest beneath the upper surface of  
said top, and a detent pivotally connected  
to said arm and adapted to be held by said  
arm in engagement with said slide to hold  
said valve open. 30

In witness whereof I have hereunto set  
my name this 20th day of February, 1909,  
in the presence of the subscribing witnesses.

CHARLES B. STILWELL.

Witnesses:

JOS. G. DENNY, Jr.,

ROBERT JAMES EARLEY.