

No. 748,170.

PATENTED DEC. 29, 1903.

A. DOMINICK.  
SAFETY GAS BURNER.  
APPLICATION FILED DEC. 4, 1902.

NO MODEL.

FIG. 1.

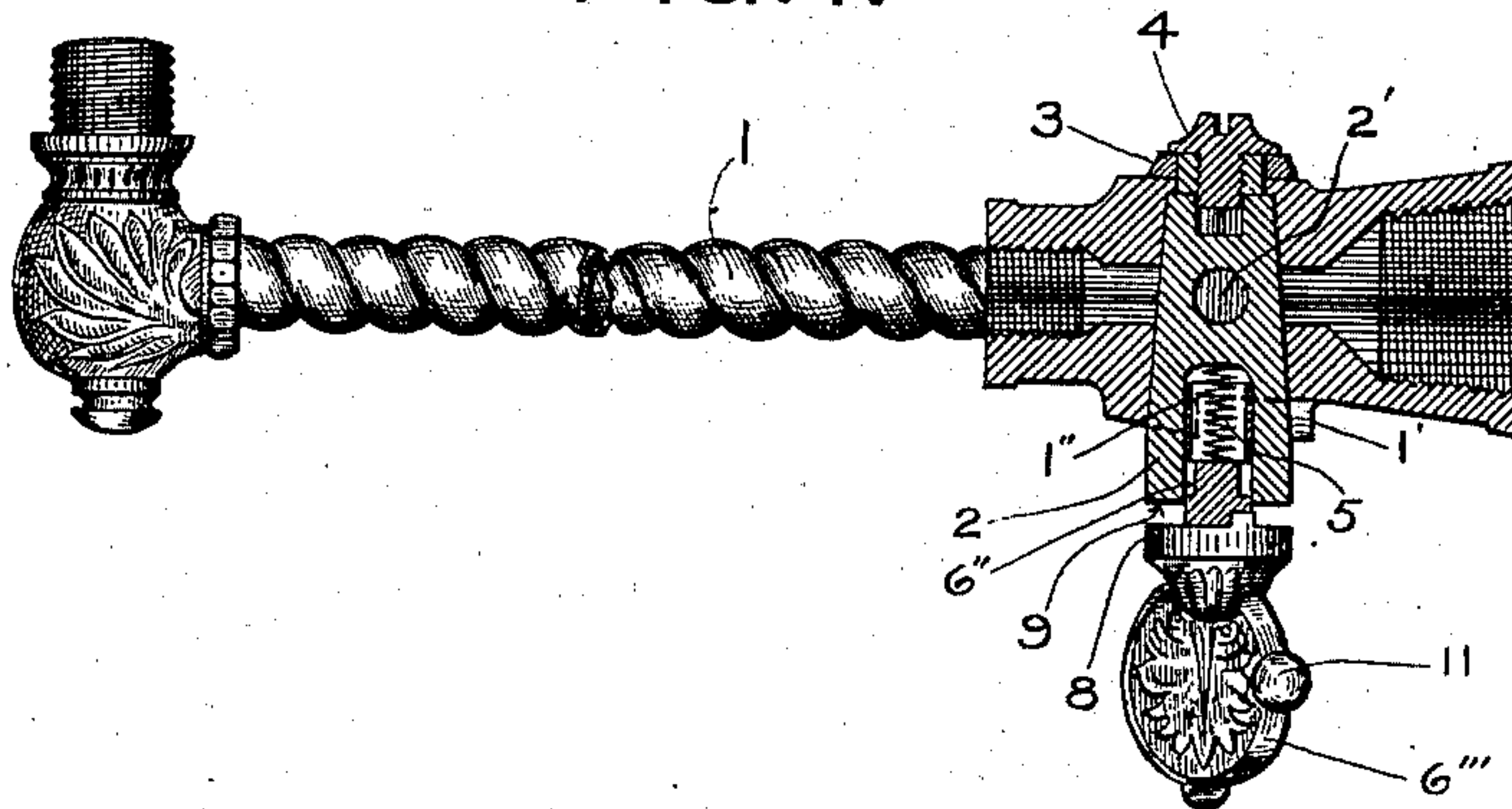


FIG. 2.

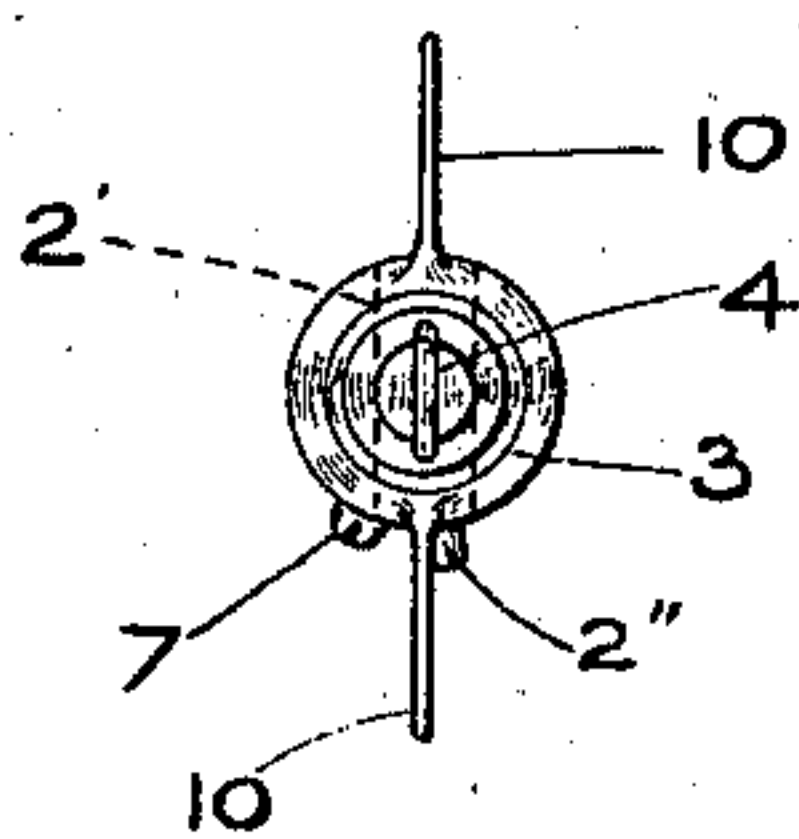


FIG. 3.

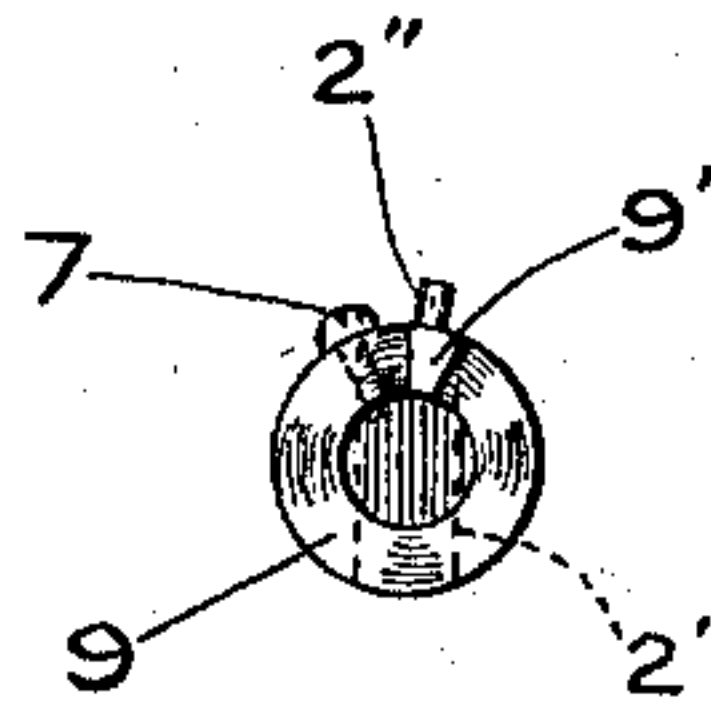


FIG. 4.

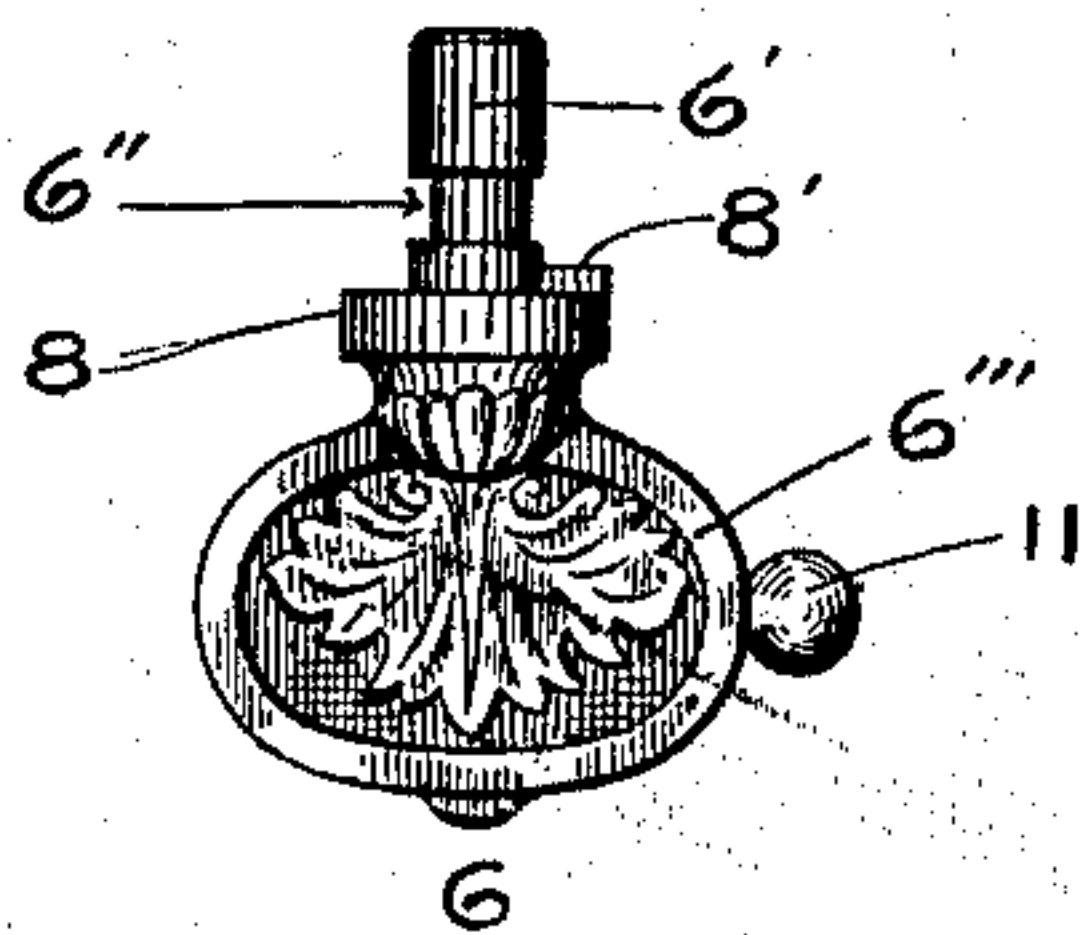
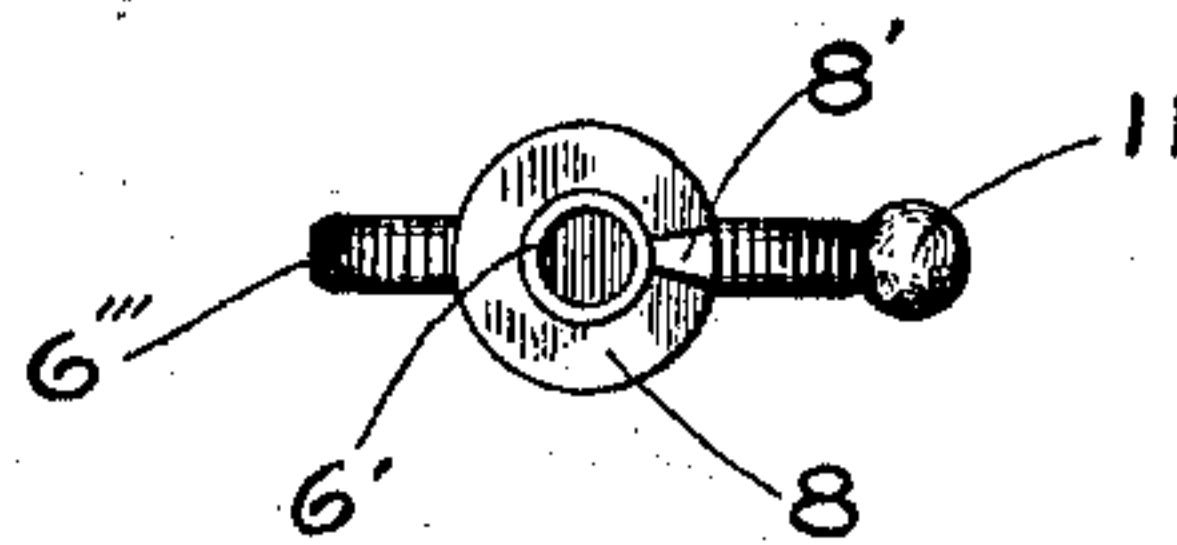


FIG. 5.



Witnesses  
Adrian Moss.  
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Ambiehl Dominick,  
Inventor  
By his Attorney, J. R. Littell



# UNITED STATES PATENT OFFICE.

AMBIEHL DOMINICK, OF NEW YORK, N. Y.

## SAFETY GAS-BURNER.

SPECIFICATION forming part of Letters Patent No. 748,170, dated December 29, 1903.

Application filed December 4, 1902. Serial No. 133,804. (No model.)

*To all whom it may concern:*

Be it known that I, AMBIEHL DOMINICK, a subject of the Emperor of Germany, residing at New York, in the county and State of New York, have invented certain new and useful Improvements in Safety Gas - Burners, of which the following is a specification.

My invention relates to devices for preventing accidents which are sometimes fatal in their results and which occur in consequence of gas being permitted to flow from burners which have been accidentally opened or which by reason of lack of knowledge of the proper method of operating the latter or because of want of care on the part of the operator are not properly closed whenever the escaping gas is not burned.

In the drawings, Figure 1 is in part a side elevation and in part a vertical longitudinal section of a gas-bracket which embodies my invention, the valve being closed. Figs. 2 and 3, respectively, are a top plan view and a bottom plan view of a valve and parts fixed thereon. Fig. 4 is a side elevation, and Fig. 5 is a top plan view, of a valve-key.

Corresponding parts in all the figures are denoted by the same reference characters.

Referring to the drawings, 1 designates in a general way a gas-bracket of a form in common use.

2 is a valve of the ordinary conical form, which is seated in an enlarged part or valve-casing of the bracket 1 and is transversely perforated, as at 2', in line with the bore of the bracket 1 and provided with a washer 3 and a screw 4, arranged to retain the valve 2 in its seat. The valve 2 is bored axially to admit a helical spring 5 and the shank 6' of a key 6, which is rotatably mounted in the valve 2 and ordinarily urged outwardly by the spring 5. The valve 2 is also bored and tapped radially to admit a screw 7, the inner end thereof projecting into a circumferential groove 6'', which is of such dimensions axially of the key-shank 6' as to allow a limited axial movement to the latter when the screw 7 is in place. A shoulder 8 is formed on the body of the key 6, and a similar shoulder 9 is formed on the lower end of the valve 2. From these shoulders, respectively, project tappets 8' and 9', axially of the former and arranged to contact one with the other when

the key 6 is urged toward the valve 2 and thereafter rotated on its axis.

A flow-indicator 10, herein shown as double-ended, is attached to the valve 2 on the same transverse plane as the axial line of the perforations 2' in the valve 2.

On one end of the handle 6''' of the key 6 is fixed a position-indicator, herein shown as a spherical projection 11.

A check-stop 2'' is rigidly attached to the valve 2 and so positioned thereon as to contact faces 1' and 1'', formed by axially recessing an end of the valve-seat.

The operation and advantages of my invention will be readily understood and appreciated. The valve 2 being in the position shown in Fig. 1, which position will be indicated by the indicator 10, simple rotation of the key 6 in either direction will fail to rotate the valve 2, and therefore the latter cannot be accidentally opened. In order to permit gas to flow through the valve 2 and out of the burner, it will be necessary for the operator to understand the method of operation of the device, which consists in pressing the key 6 toward the bracket 1 and then rotating the key 6 to the right until the indicator 11 is nearly in line radially of the valve with the check-stop 2'', when continued rotation of the key 6 will cause the valve 2 to open, as will be indicated by the position at the time of the indicator 10, the latter being then parallel of the bracket 1. It will be noted, therefore, that it will ordinarily be necessary to instruct a person in the operation of the device before a flow of gas can be obtained from the latter, and it will necessarily follow that all flow of gas from the device thereafter will result from intentional operation of the latter. Reversal of the operative movements of the members mentioned will result in closing the valve 2, when the flow of gas will cease. It will also be noted that the device shown may be adapted for use in combination with faucets or bibs connected with service-pipes for water and with taps or spigots used to draw liquids from barrels or other receptacles.

I do not desire to be understood as limiting myself to the details of construction and arrangement as herein described and illustrated, as it is manifest that variations and modifications may be made in the features of

construction and arrangement in the adaptation of the device to various conditions of use without departing from the spirit and scope of my invention and improvements. I therefore reserve the right to all such variation and modification as properly fall within the scope of my invention and the terms of the following claim.

Having thus described my invention, I claim and desire to secure by Letters Patent—

In a device of the character described, the combination of a valve-casing, a plug-valve mounted to turn in said casing and provided at one end with an axial bore, a key provided with a stem mounted in said bore and said stem provided with a circumferential groove, a pin projecting through the wall of the valve

into said groove, a helical spring within the bore of said valve and tending to press the key outwardly therefrom, the valve and key both having projections adapted to be engaged by pressing the key into the bore of the valve, a flow-indicator attached to the valve, and a projection from the key serving as a position-indicator to coact with the indicator of the valve, as and for the purpose set forth.

In testimony whereof I have signed my name in the presence of the subscribing witnesses.

AMBIEHL DOMINICK.

Witnesses:

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J. M. HOCTOR.