

(No Model.)

O. P. MOON.

INDICATOR FOR GAS OR VAPOR STOVE VALVES.

No. 600,884.

Patented Mar. 22, 1898.

FIG. 1.

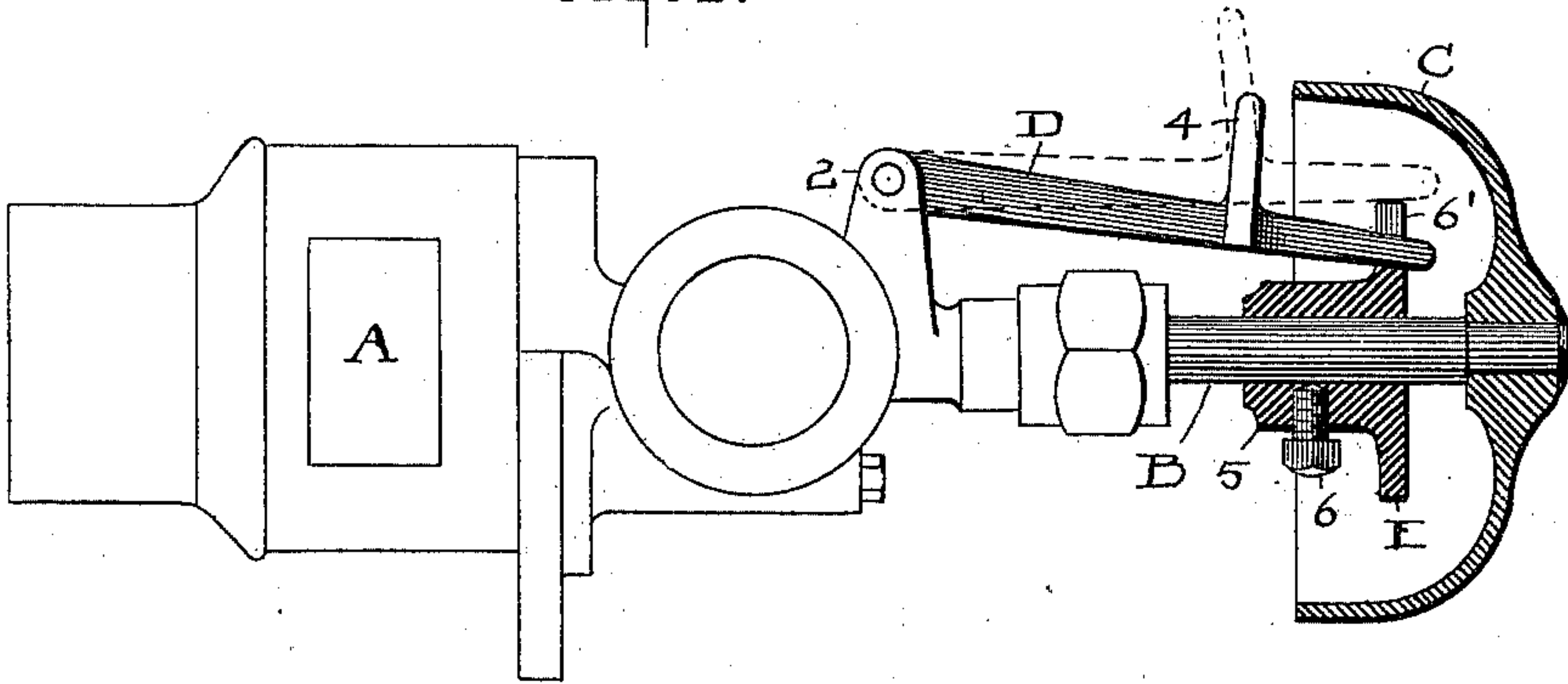


FIG. 2.

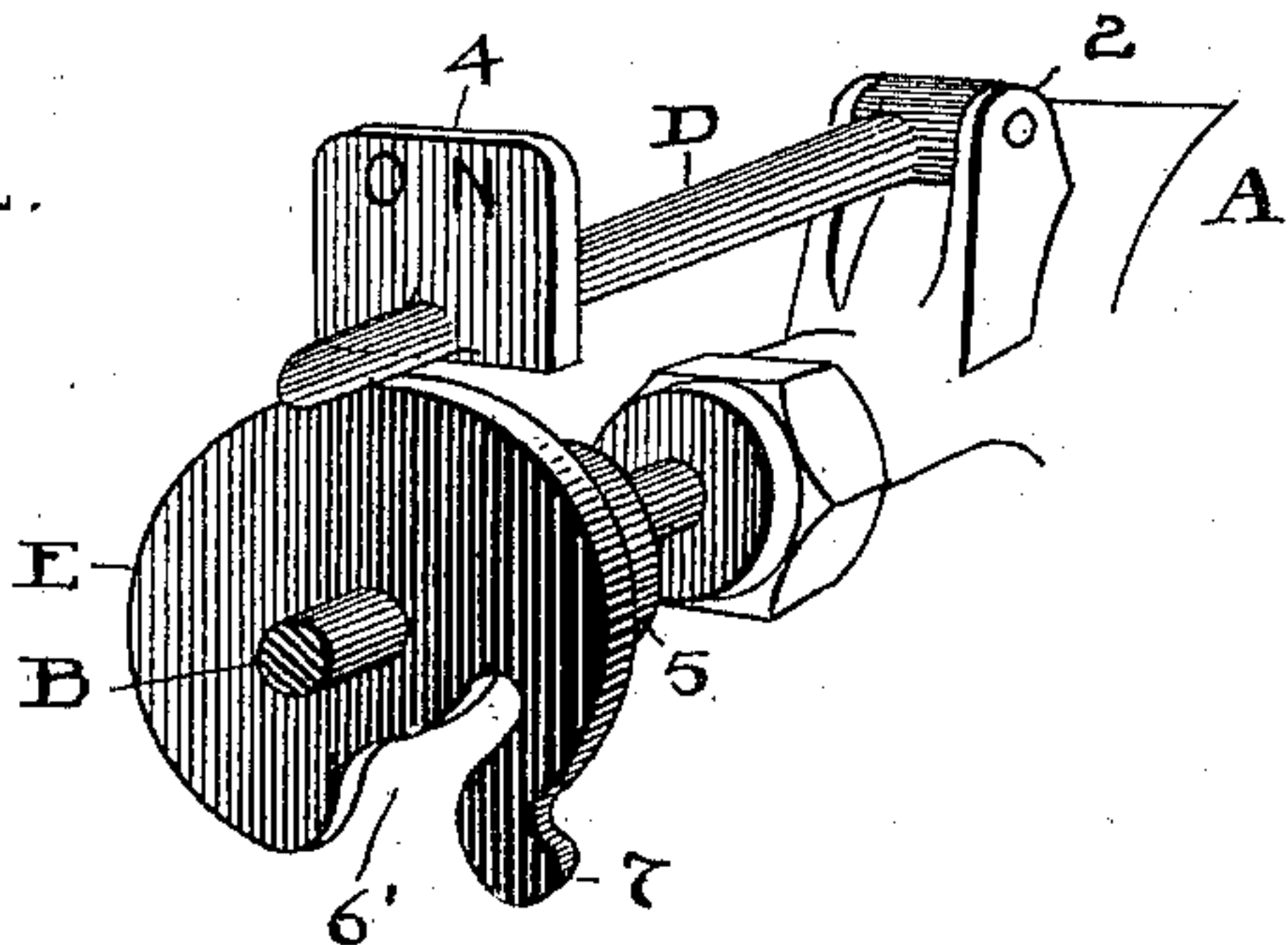
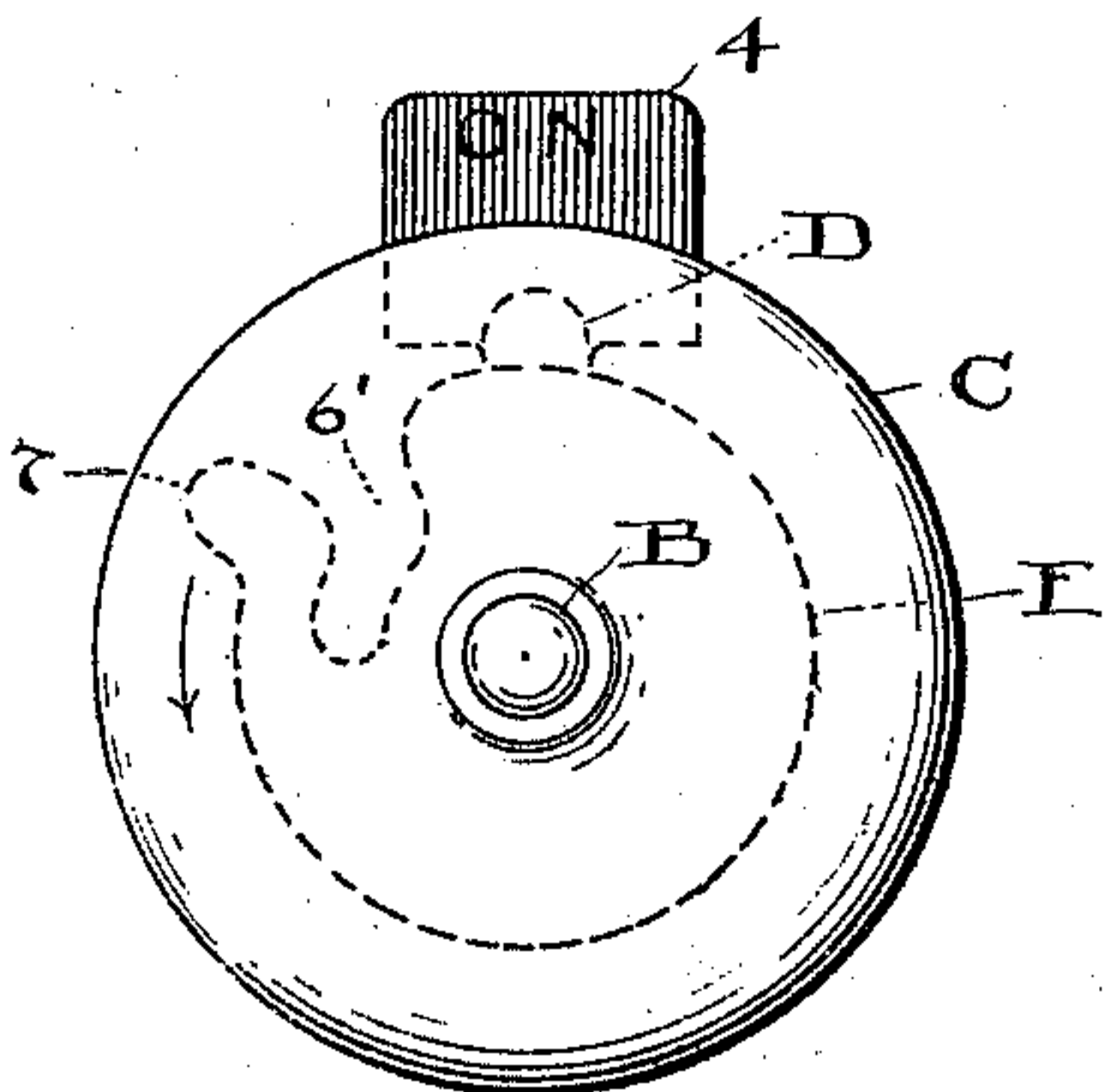


FIG. 3.



ATTEST.

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ATTY

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INDICATOR FOR GAS OR VAPOR STOVE VALVES.

SPECIFICATION forming part of Letters Patent No. 600,884, dated March 22, 1898.

Application filed March 17, 1897. Serial No. 627,976. (No model.)

To all whom it may concern:

Be it known that I, ORVILLE P. MOON, a citizen of the United States, residing at Lorain, in the county of Lorain and State of Ohio, have invented certain new and useful Improvements in Indicators for Vapor-Stove Valves; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same.

The invention shown and described herein relates to gas or vapor stoves; and the object of the invention is to provide means for disclosing to the eye of the operator at a glance whether a valve is open or closed, thereby promoting safety in the use of stoves or burners of this kind and guarding against accidents, especially when gases or vapors are used which do not promptly disclose their presence and volume by their odors.

A further object of the invention is to provide a suitable stop to limit the opening of the valve, all substantially as shown and described, and particularly pointed out in the claims.

In the accompanying drawings, Figure 1 is an elevation of a common form of gas-stove or burner portion or attachment and a sectional elevation of the handle and other parts, as hereinafter fully described. Fig. 2 is a perspective view of a section of valve-stem and the novel attachments comprised in this invention. Fig. 3 is a front elevation of the substantially cup-shaped valve-handle and showing the indicator raised, as occurs when the valve is open, and showing the actuating part for the indicator in dotted lines at the rear of the handle.

Referring now to Fig. 1, the part represented by A is a common mixer and supply connection or portion in which alone no present novelty is claimed.

B is the valve-stem, presumably a needle-valve, though any other form might be used, and C is the usual cup-shaped handle, which may be plain or ribbed and which may be of any preferred style other than that here shown.

Pivoted on the casing or portion A, in suitable ears or projections 2 thereon, is an arm or bar D, which projects forward toward the

handle C and in this instance extends within the same, so as to be confined thereby within operative limits, and on this arm, near the inner edge or portion of the handle, is an indicator-plate or similar projection 4 of such size as to be easily discernible when raised and in such relation when down as to be hidden behind the handle and invisible. Then in order to operate the indicator I fix what is substantially a disk E, having a hub 5 secured by set-screw 6 on valve-spindle D and rotarily adjustable thereon to give the disk the right relation to the other parts. The said disk has a circular edge, substantially as shown, on which the arm D is adapted to rest and ride when the spindle B is turned to open or close the valve, and in the portion of its edge which the said cover reaches at closed position the disk has a notch or recess 6' in its edge of such depth that when the free end of the arm D has dropped into the same the indicator 4 on the arm will fall out of sight behind handle C, as shown in Fig. 1. The bottom of recess 6' is wide enough to allow for all the movement the valve-stem may require to tightly close the valve even after the indicator has dropped out of sight, and the edge of said recess leading into and out of the same over which arm D travels is rounded, so as to offer no obstruction to the movements of the parts and their operation, substantially as described. Opposite the said recess on disk E and from the opposite side where arm D enters and returns is an outward projection 7, which forms a stop adapted to engage the extremity of arm D and limit the rotation of valve-stem B and beyond which the stem cannot be turned without purposely raising the arm D. This affords security against opening the valve beyond the point of economy and safety and is a desirable feature of the invention.

What I claim as new, and desire to secure by Letters Patent, is—

1. The combination of the spindle and the handle thereon, an indicator adapted to be raised and lowered, and means operated by the said spindle to raise and lower said indicator, the said handle being constructed and arranged to conceal the indicator when in its lowest position, substantially as described.

2. A valve-controlling spindle and a han-

dle thereon, an indicator to show when the valve is open pivoted behind said handle and means on the said spindle to raise and lower said indicator, the said handle being of such
5 configuration as to conceal the indicator when in its lowest position, substantially as described.

3. The valve-spindle and its handle, in combination with a pivoted arm carrying an indicator and a part fixed on said spindle engaging said arm and constructed to raise the
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arm when the valve is open and to lower the arm when the valve is closed, and said handle constructed to hide the said indicator when the indicator is down, substantially as
15 described.

Witness my hand to the foregoing specification this 19th day of February, 1897.

ORVILLE P. MOON.

Witnesses:

H. T. FISHER,

R. B. MOSER.