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Patented Oct. 14, 1902.

A. E. KRAEGER.  
ATTACHMENT FOR GAS COCKS.

(Application filed Jan. 7, 1902.)

(No Model.)

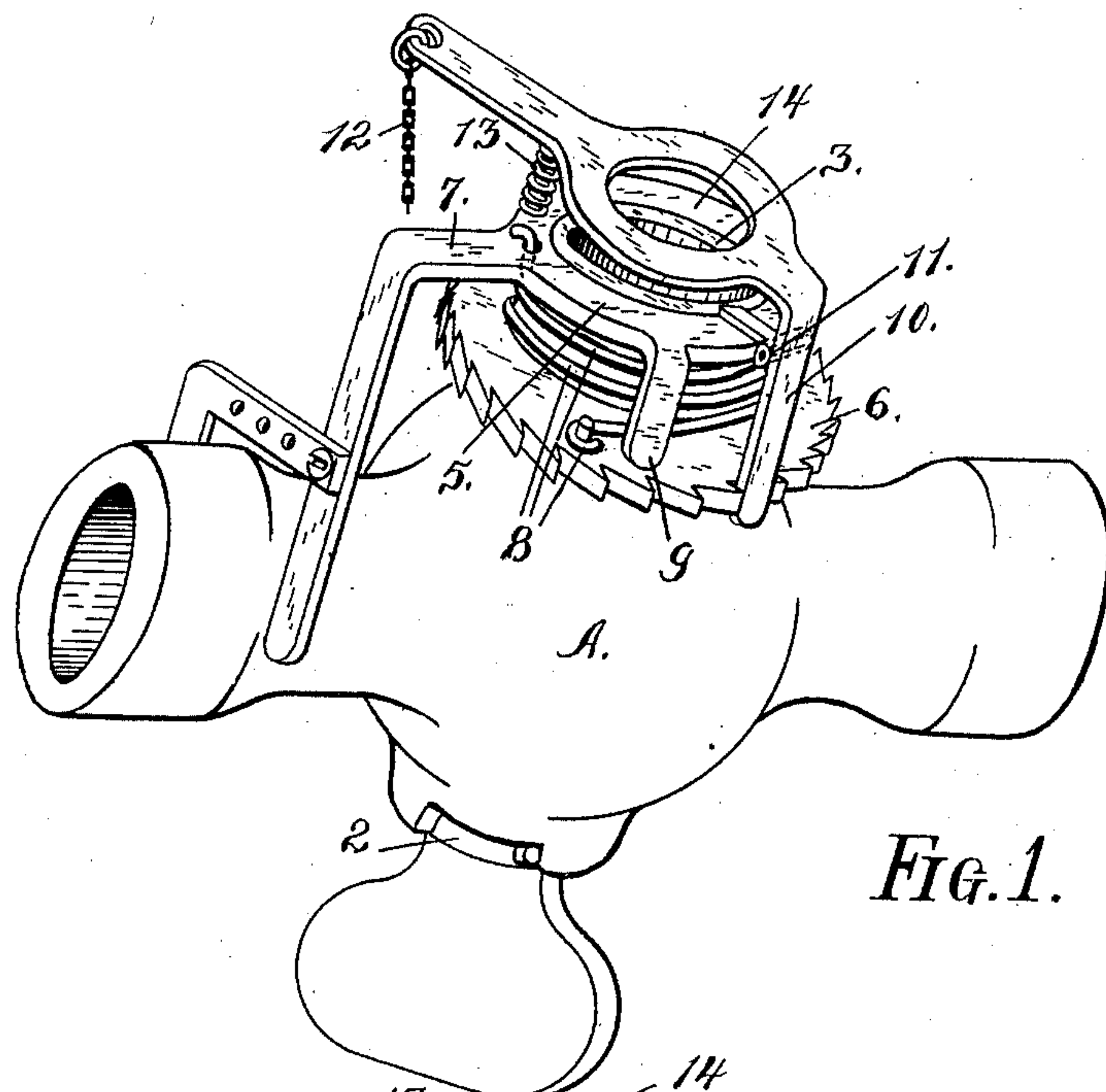


FIG. 1.

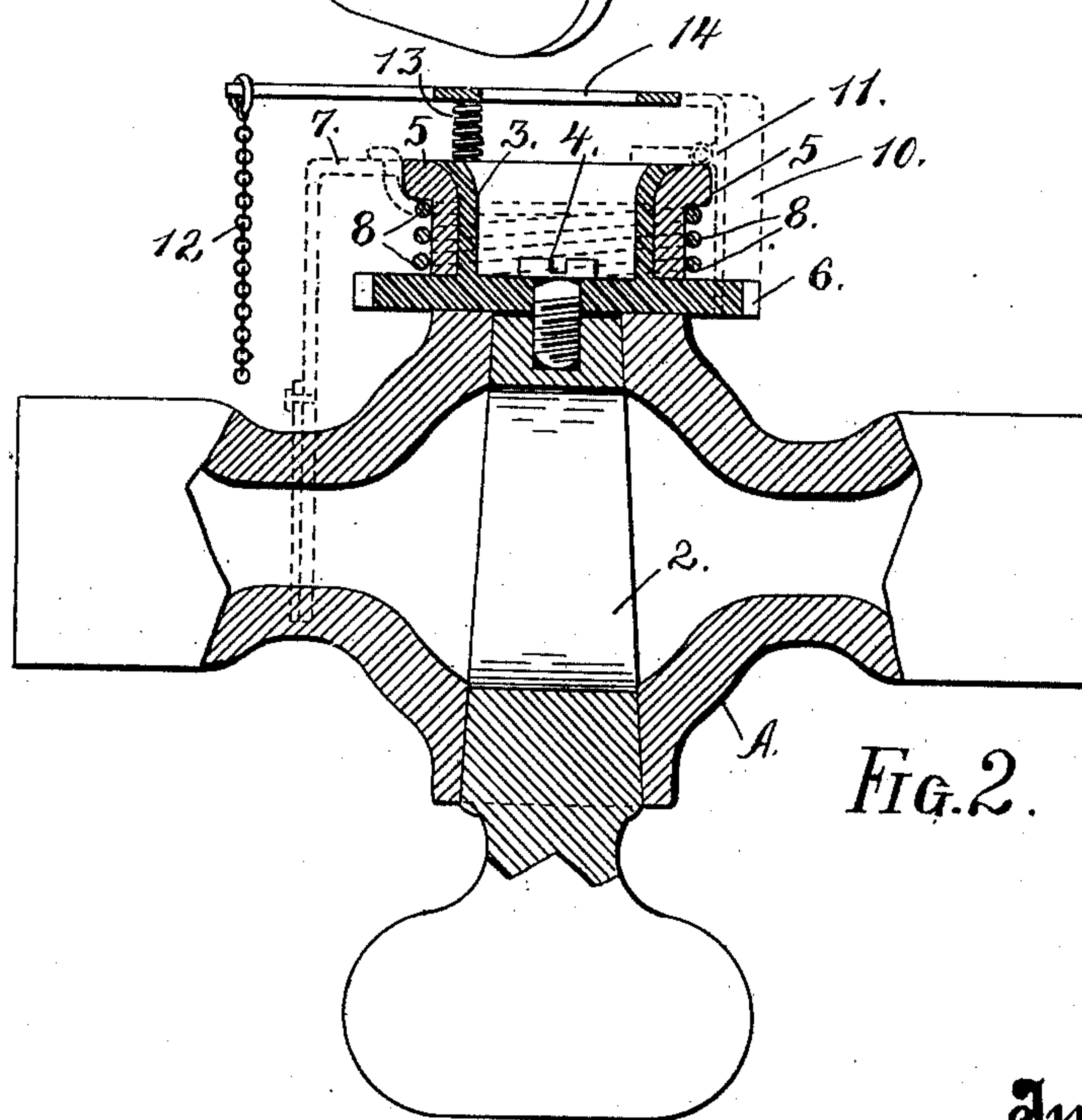


FIG. 2.

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# UNITED STATES PATENT OFFICE.

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## ATTACHMENT FOR GAS-COCKS.

SPECIFICATION forming part of Letters Patent No. 711,113, dated October 14, 1902.

Application filed January 7, 1902. Serial No. 88,762. (No model.)

*To all whom it may concern:*

Be it known that I, ALFRED E. KRAEGER, a citizen of the United States, residing in the city and county of San Francisco, State of California, have invented an Improvement in Attachments for Gas-Cocks; and I hereby declare the following to be a full, clear, and exact description of the same.

My invention relates to improvements in devices for controlling the flow of gas to the burner. Its object is to provide a simple and positive means for cutting off the gas when it is desired to extinguish the light.

It consists in the combination, with the plug of a gas-cock, of a ratchet-wheel fixedly connected therewith, a sleeve in which the plug is turnable, means for holding the sleeve stationary, a spring-pressed pawl pivoted on the sleeve, said pawl having one end adapted to engage the teeth on said ratchet-wheel, means upon the other end of the pawl by which it may be operated to release the ratchet, and a spring having one end secured to a fixed point and the other end secured to the ratchet, said spring tending always to rotate the plug to close the cock.

It comprises details of construction which will be more fully explained hereinafter, having reference to the accompanying drawings, in which—

Figure 1 is a perspective view. Fig. 2 is a central longitudinal vertical section.

A represents the shell of an ordinary gas-cock, and 2 is the plug by which the flow of gas to the burner is controlled. The plug is ordinarily held in place by means of a washer and screw, and the gas is turned on and off by turning the plug with the fingers. For the usual washer I substitute a hollow cap or cup 3, which consists of a tube closed at one end and secured to the plug by means of a screw 4, passing through the end of the tube. A sleeve 5 is turnable, and a ratchet-wheel 6 is fixed on the tube. An angular extension 7 on the sleeve engages the casing A, so that the sleeve may be held stationary against the rotation of the cap and plug. A coil-spring 8 has one end fixed to the extension 7 and the other end is secured to the ratchet, so as to tend always to rotate the plug to close the cock. A stop device 9 limits the movement of the plug to a quarter-revolution, so that

when it is turned to its full extent in one direction the cock is open and when in the other the cock is closed. A pawl 10 is pivoted on the sleeve at 11 and has one end adapted to engage the teeth of the ratchet-wheel. The other member of the pawl extends horizontally across the sleeve and has a chain or cord 12 attached to the end. A spring 13 insures the engagement of the pawl and ratchet. The horizontal portion of the pawl has a hole 14 through it, which admits the end of a screw-driver for the purpose of turning the screw 4.

In operation the gas is turned on by turning the cock so the ratchet-teeth slip by the pawl. The latter serves to hold the cock open at any desired point. When it is desired to turn the gas off, a simple pull on the chain 12 releases the ratchet from the pawl and the spring 8 causes the cock to fly shut.

This device is applicable generally to gas-fixtures already in use, being readily attached to the ordinary gas-cock plug.

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

1. The combination with a gas-cock, of a tube closed at one end and means fixing said tube to the turning plug, a ratchet-wheel fixed on the tube, a spring surrounding the tube having one end secured to the ratchet-wheel and the other end secured to a fixed point, means for limiting the movement of the plug, a spring-pressed pawl adapted to engage the teeth of the ratchet-wheel, means by which the pawl may be released from said teeth to allow the spring to turn the plug and shut off the gas.

2. The combination with a gas-cock, of a ratchet-wheel fixedly connected with the plug of said cock, a tube extending above and fixed to the ratchet-wheel, a sleeve surrounding the tube and in which the tube is turnable, means by which said sleeve is held stationary against the rotation of the plug and ratchet, a spring by which the plug may be rotated to close the cock, and a spring-pressed pawl engaging said ratchet by which the cock may be held open.

3. The combination with the plug of a gas-cock, of a ratchet-wheel fixedly connected and turnable therewith, a sleeve having an an-

- gular extension adapted to engage a fixed support and hold the sleeve stationary against the rotation of the plug, a spring encircling the sleeve and by which the plug is rotated to close the cock, a spring-pressed pawl pivoted on said sleeve and having one end engaging the ratchet-teeth and means upon the other whereby the pawl may be operated to release the ratchet.
- 10 4. An attachment for gas-cocks, consisting of a tube closed at one end; a perforation in this end through which a screw may be inserted to secure said tube to the end of the plug, a ratchet-wheel fixed on the tube, a sleeve carried by the tube, and in which the tube is turnable, a projection on said sleeve, a spring having one end secured to the ratchet and the other to said projection, a spring-pressed pawl pivoted on the sleeve and having one end adapted to engage the teeth of the ratchet and a chain or cord upon the other end of the pawl by which the latter may be operated to release the ratchet.
- 15 In witness whereof I have hereunto set my hand.
- ALFRED E. KRAEGER.
- Witnesses:  
S. H. NOURSE,  
CHAS. E. TOWNSEND.