

No. 636,102.

Patented Oct. 31, 1899.

C. BARGAMIN.

AUTOMATIC CUT-OFF ATTACHMENT FOR GAS STOVES.

(Application filed Apr. 1, 1899.)

(No Model.)

2 Sheets—Sheet 1.

FIG. 1.

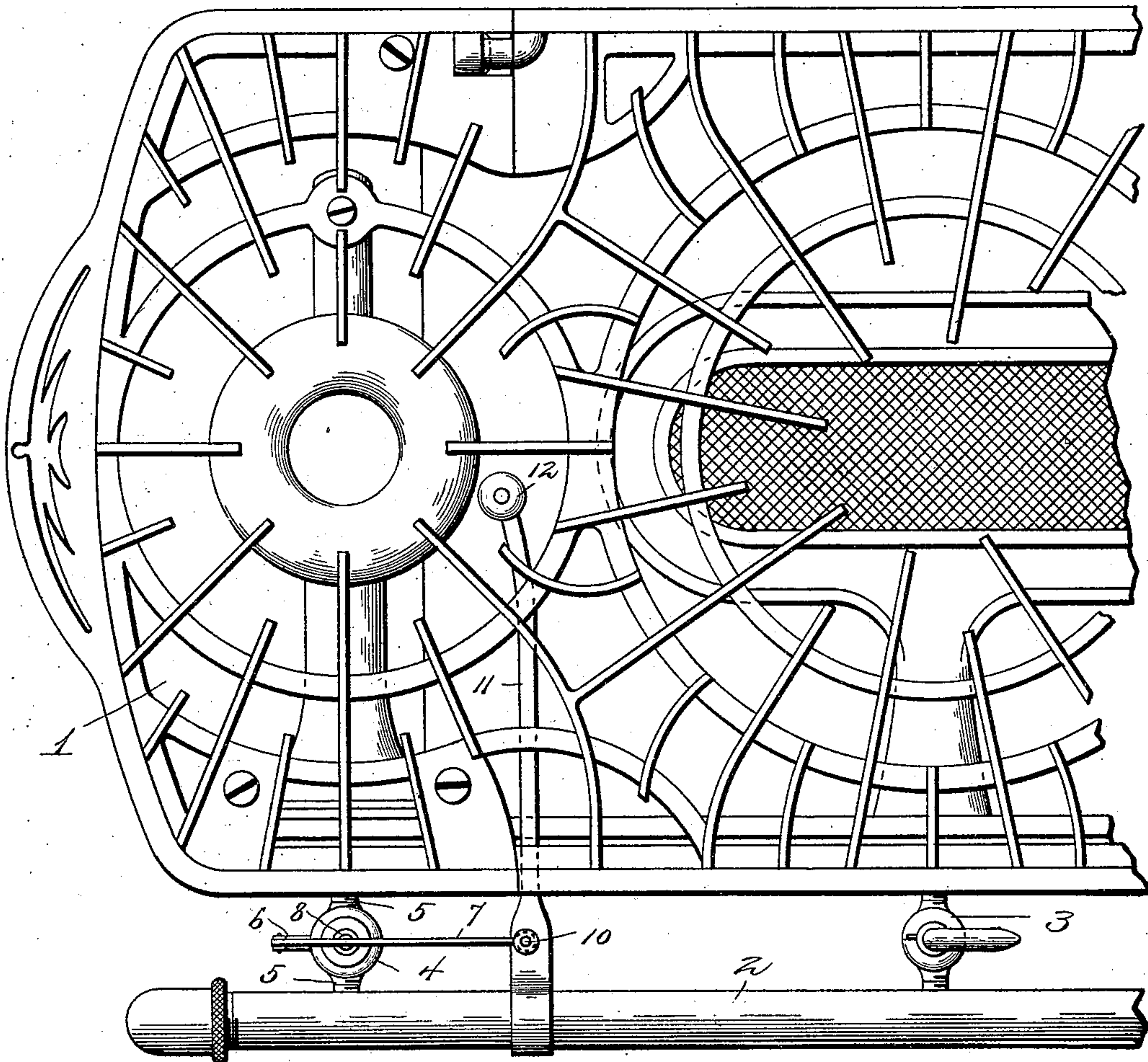
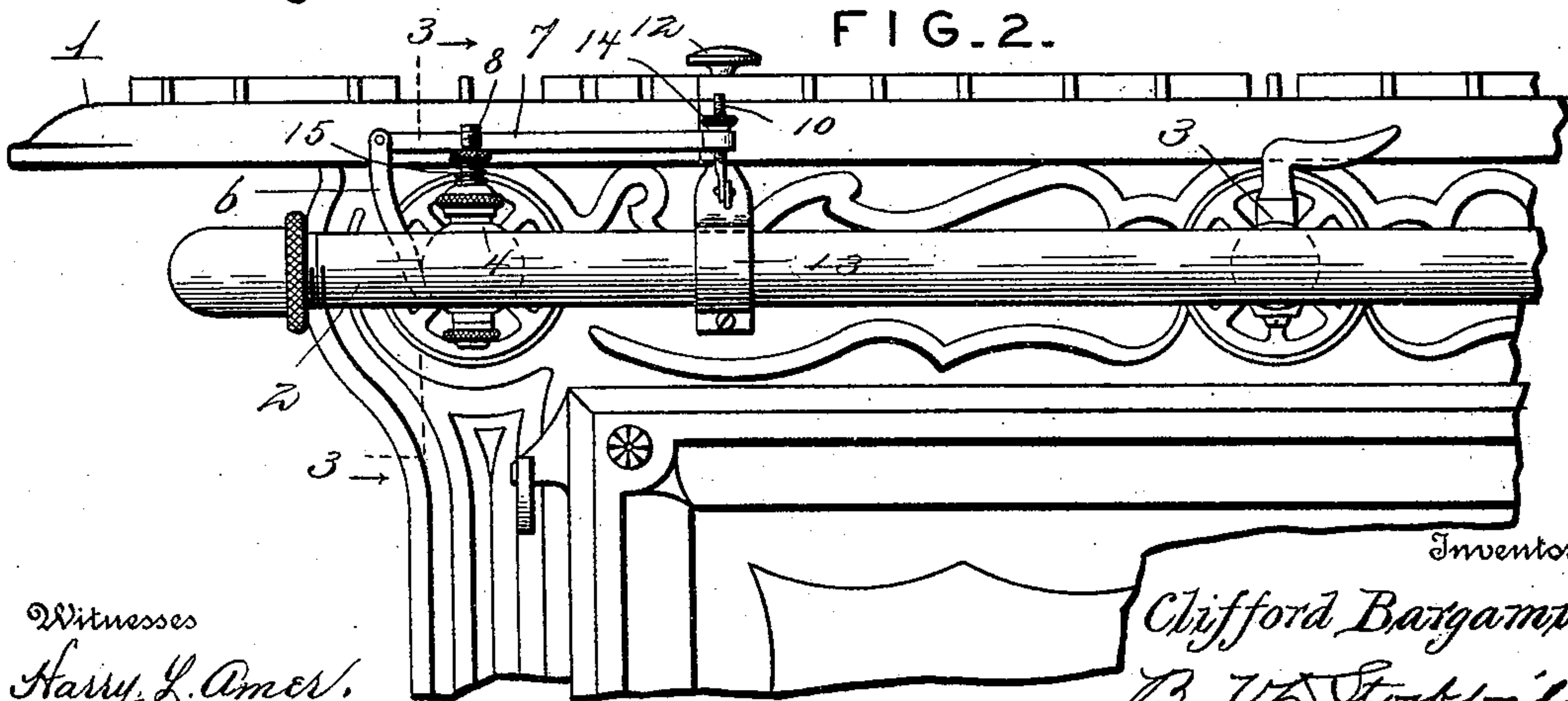


FIG. 2.



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FIG. 3.

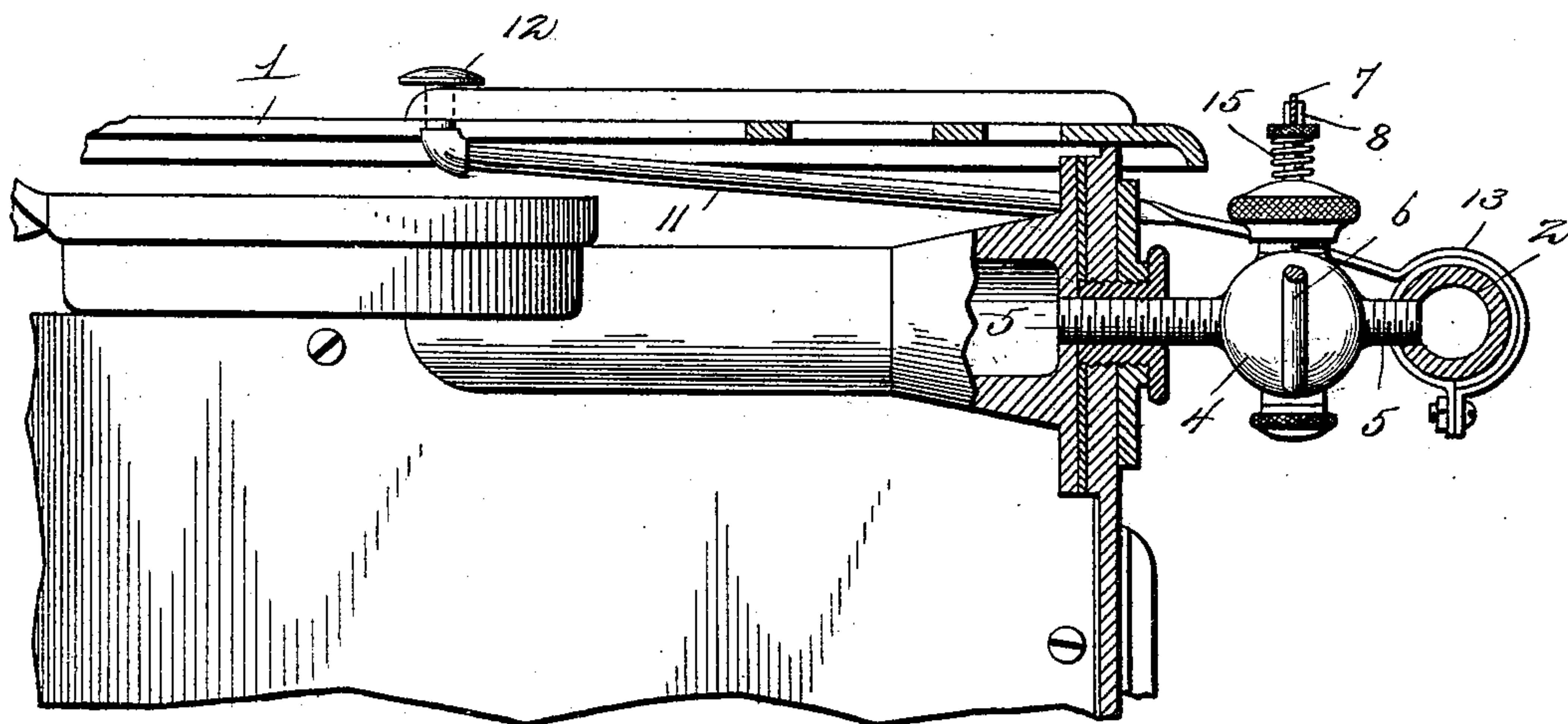


FIG. 4.

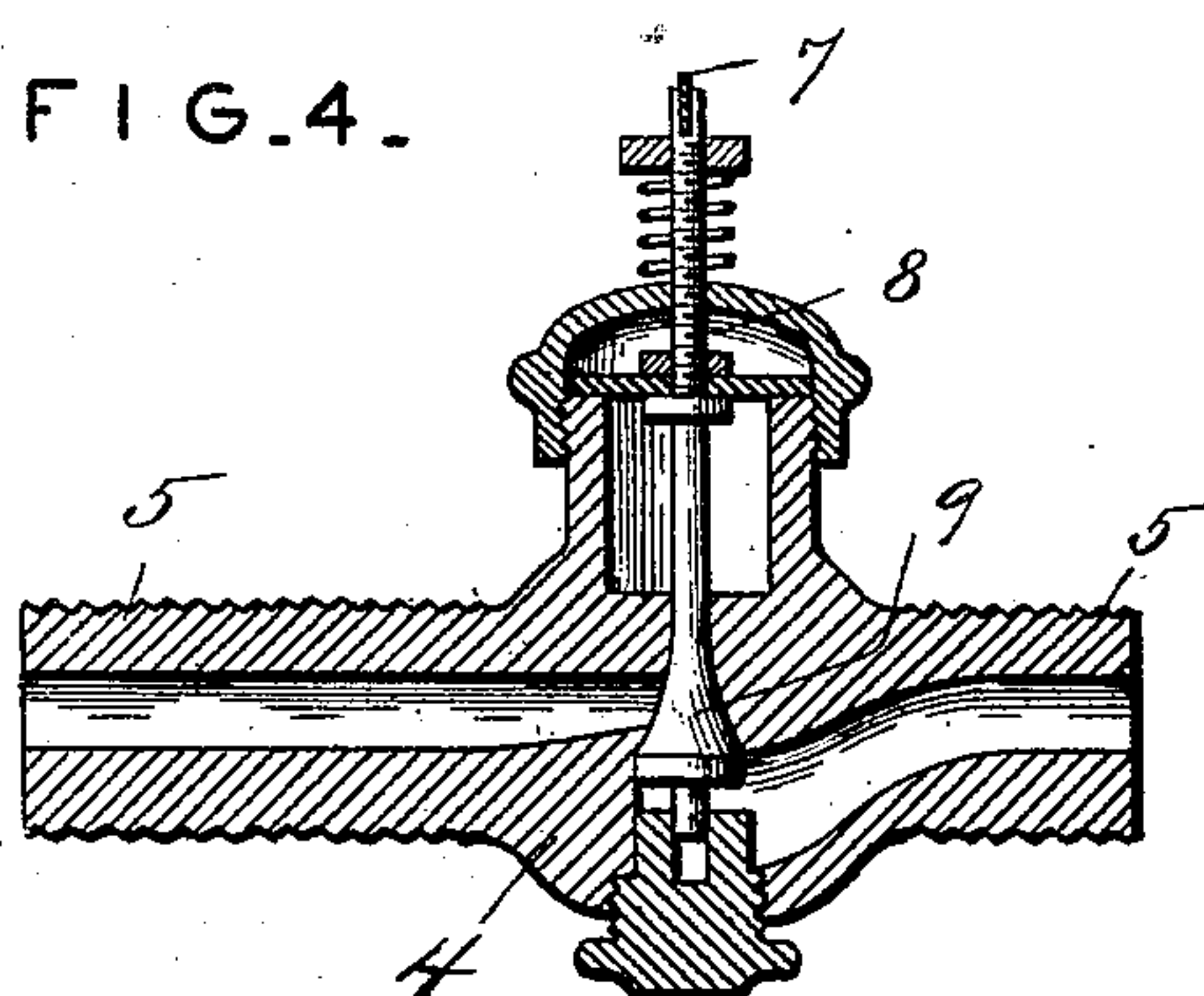
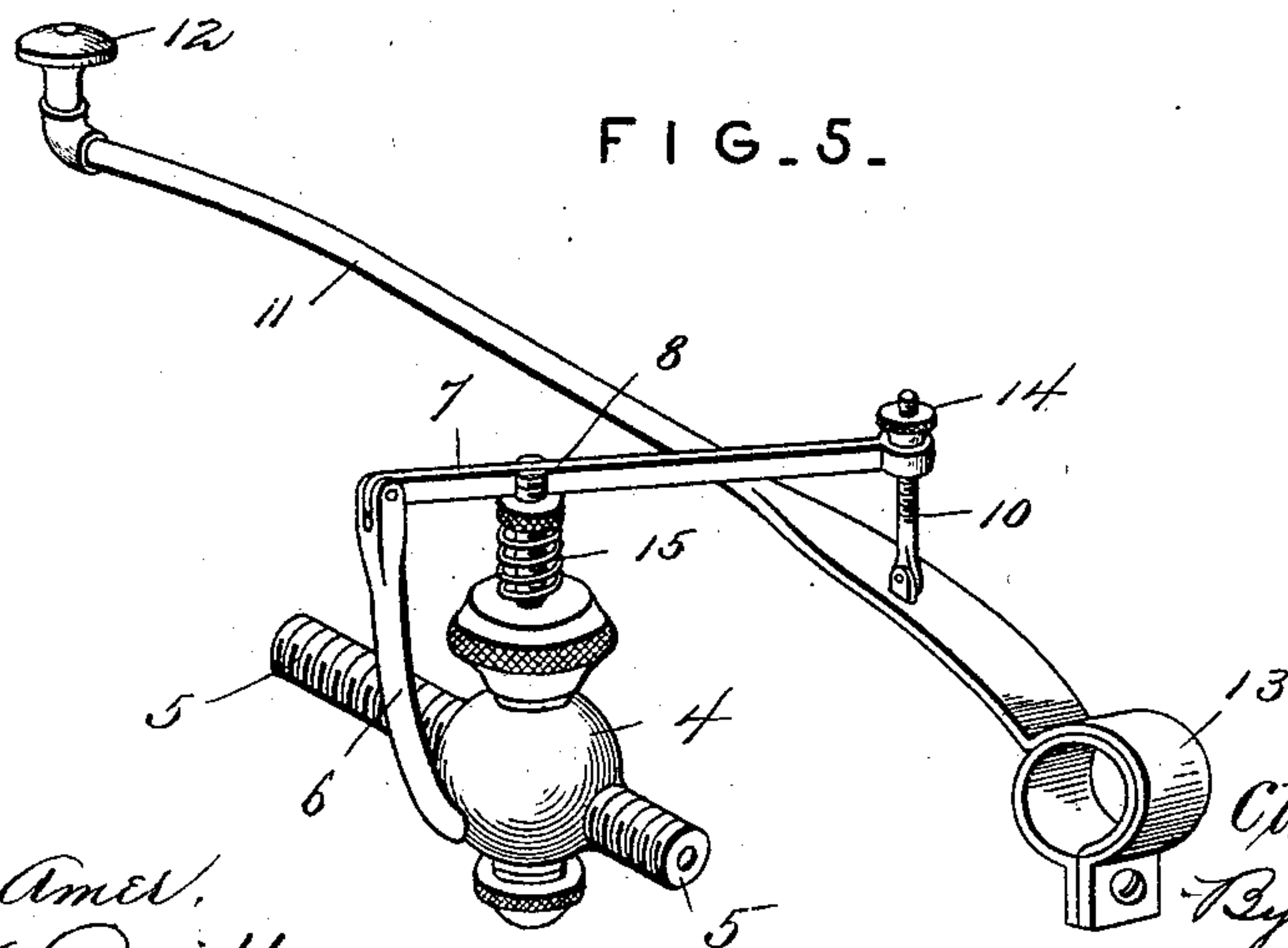


FIG. 5.



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UNITED STATES PATENT OFFICE.

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AUTOMATIC CUT-OFF ATTACHMENT FOR GAS-STOVES.

SPECIFICATION forming part of Letters Patent No. 636,102, dated October 31, 1899.

Application filed April 1, 1899. Serial No. 711,434. (No model.)

To all whom it may concern:

Be it known that I, CLIFFORD BARGAMIN, a citizen of the United States, residing at Newport News, in the county of Warwick and State of Virginia, have invented a certain new and useful Automatic Cut-Off Attachment for Gas-Stoves; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to automatic cut-off attachments for gas-stoves.

The object of the invention is to provide a cut-off attachment adapted for connection with stoves as already constructed and on the market.

To this end my invention consists in the combinations hereinafter described and claimed, the complete attachment involving a valve-casing having screw-nipples extending in opposite directions from the casing proper and a bracket extending laterally and substantially at right angles with the nipples, a valve suitably seated in the casing, a valve-operating arm pivotally connected with the bracket and suitably coupled with the valve-stem, a spring-arm carrying a knob or plate at one end and provided with a socket for clamping or coupling the same with the gas-supply pipe of a stove, and means for coupling, as a link, the spring-arm and the valve-operating arm.

In the drawings, Figure 1 is a broken plan of a well-known form of gas-stove, showing my invention applied thereto. Fig. 2 is a front elevation of the same. Fig. 3 is a section on the line 3 3 of Fig. 2. Fig. 4 is a section through the valve-casing of my attachment, showing the valve and its stem in elevation. Fig. 5 is a perspective of the entire attachment detached from the stove.

1 is the top of a gas-stove of well-known construction, 2 being the gas-supply pipe or connection for supplying gas to the burners, and 3 represents the old or conventional style of cock or valve for opening and closing the passage from the supply-pipe to the burners.

My attachment, which is intended to take the place of the old form of valve as shown at 3, consists of a valve-casing 4, having nip-

ples 5 5 extending in opposite directions for connection between the gas-supply pipe and the burner-passage in the stove in the same manner that the old-style valve-casing is applied. In other words, my valve-casing is interchangeable with that of the old form of valve-casing. Connected with my valve-casing is a bracket 6, extending outward and upward, and to the upper end of this bracket is pivoted a valve-operating arm 7, suitably connected with the endwise-reciprocating valve-stem 8 of the valve 9. The other extremity of valve-operating arm 7 is connected, through the medium of a link 10, with a spring-arm 11, carrying at its extremity a knob or plate 12 and connected at the other end with a clamping eye or socket 13, the socket 13 being of suitable dimensions for grasping and clamping the gas-supply pipe 2 of the stove. As shown in Figs. 1 and 3 of the drawings, the spring-arm 11 extends from the gas-supply pipe inward through the stove to a position adjacent to or within the burner of the stove, the part 12 projecting one-fourth of an inch, more or less, above the plane of the top of the stove, so that when a vessel or article to be heated is placed upon the stove the knob 12, together with arm 11, is depressed, and through link 10 and arm 7 the valve 9 is opened to permit a full flow of gas, and when the vessel or article is removed from the stove the spring-arm, through link 10 and valve-operating arm 7, closes or throttles the valve, as the case may be, in this way ordinarily cutting off the gas or cutting down the consumption of gas upon the removal of the vessel or article from the stove. The link 10 is threaded at its upper end and is provided with a thumb-nut 14 for adjusting the valve-operating arm 7, so that the valve will be held open slightly to not entirely extinguish the flame in case the stove is to be continued in use. It should be noted that through this thumb-nut the adjustment can be made so as to partially cut off the gas, thereby maintaining a slow fire or low heat for keeping articles warm or for other purposes as may be desired. In other words, the adjustment is such that when the arm 11 is depressed a full head or partial head of gas may be admitted to the burner and that the valve may be nearly or

entirely closed upon the removal of the vessel and release of the spring-arm.

I have shown in connection with my attachment a spring 15 for normally holding the valve closed, notwithstanding the valve would be held closed through the medium of spring-arm 11.

The knob or plate 12 should be made conical or convex on its upper surface, so that in moving a vessel or article laterally over the top of the stove it will operate to depress the arm and not interfere with the sliding movement of the vessel.

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

1. As an article of manufacture, an automatic cut-off attachment for gas-stoves, comprising a valve-casing having oppositely-disposed nipples, and a bracket; a valve; a valve-operating arm; a spring-arm carrying a knob or plate, and a socket for grasping the gas-supply pipe of a stove; and means for coupling the spring-arm and the valve-operating arm, substantially as described.

2. As an article of manufacture, an automatic cut-off attachment for gas-stoves, comprising a valve-seat having oppositely-dis-

posed nipples for convenient connection between the gas-supply pipe and the burner-passage of a stove, and having a bracket projecting upwardly, a valve, a valve-operating arm, a spring-arm carrying at one extremity a knob and having at the other extremity a clamping-socket for embracing the supply-pipe of a stove, and means for adjustably coupling the spring-arm and the valve-operating arm.

3. In automatic cut-offs for gas-stoves, the combination of a reciprocating valve and means for automatically partially opening and partially closing said valve, consisting of a spring-arm carrying an upwardly-projecting knob, a valve-operating arm pivoted at one end to a bracket on the valve-casing, a link threaded at its upper end for coupling the other end of the valve-operating arm and the spring-arm, and a thumb-nut connected with the link for adjusting the arms with relation to each other, substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

CLIFFORD BARGAMIN.

Witnesses:

WM. L. LORD,
REXFORD M. SMITH.