

No. 731,510.

PATENTED JUNE 23, 1903.

G. SCHULZ.  
GUARD FOR GAS BURNERS.  
APPLICATION FILED DEC. 2, 1902.

NO MODEL.

FIG. 1.

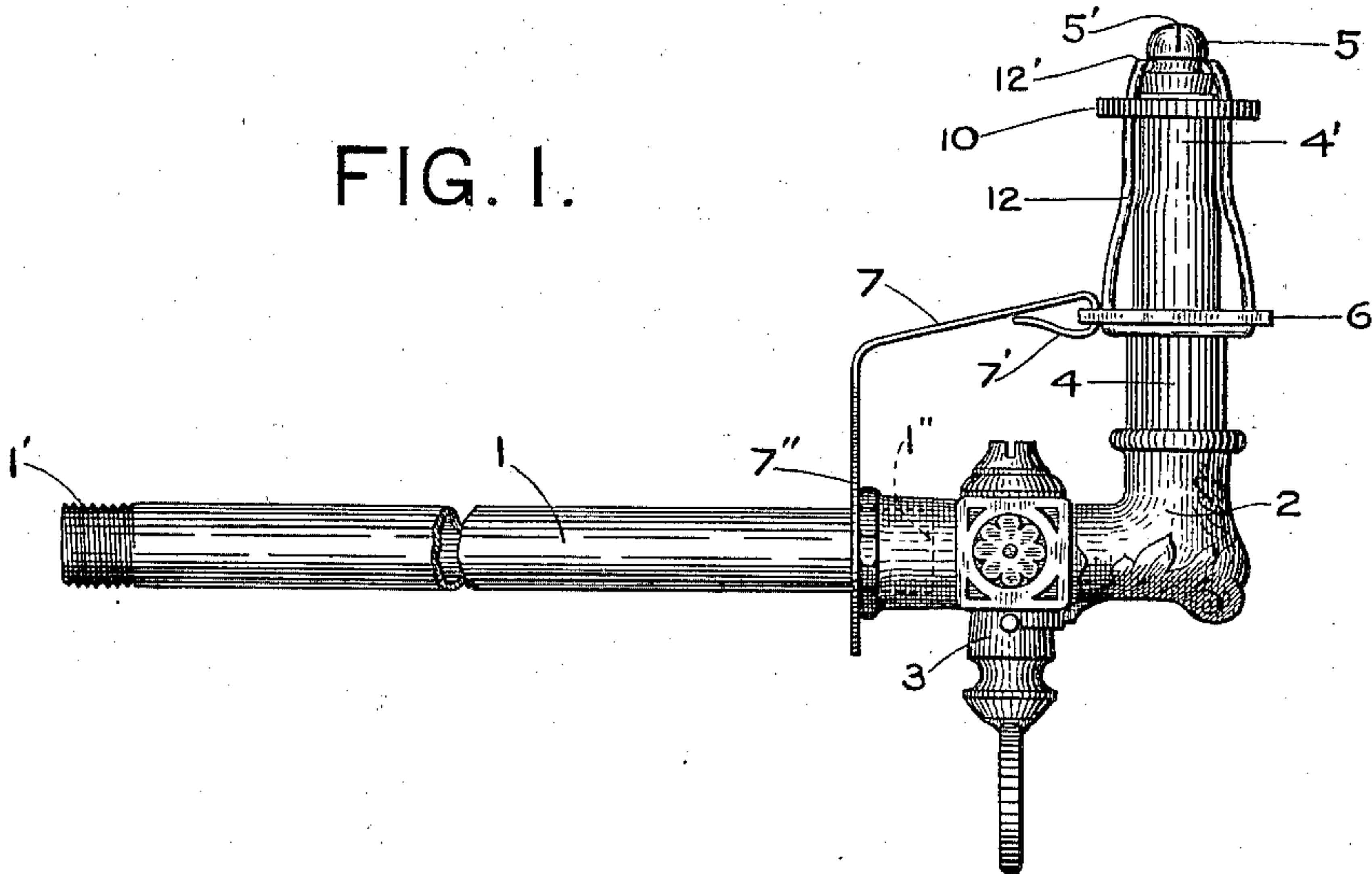


FIG. 2.

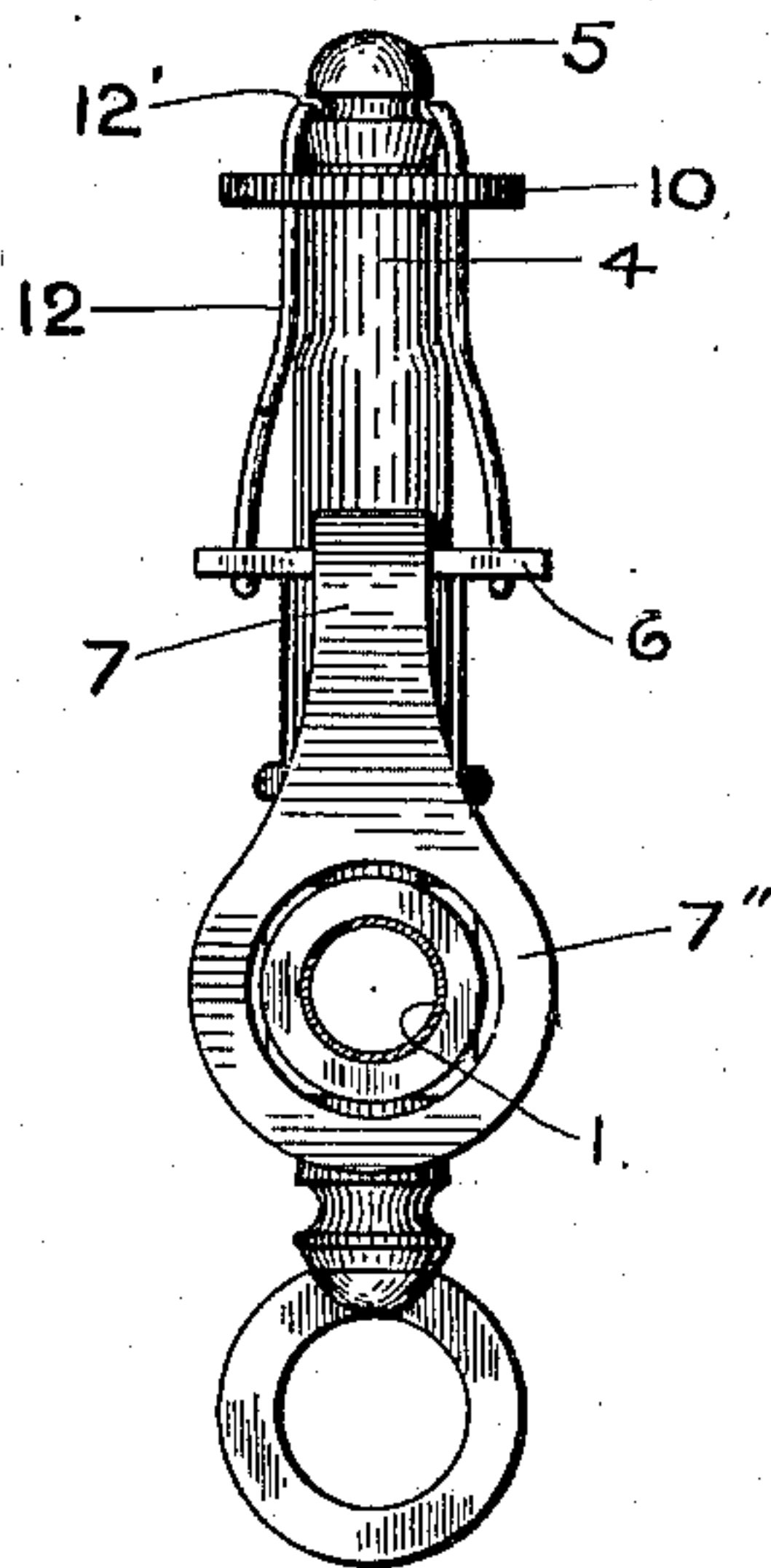


FIG. 3.

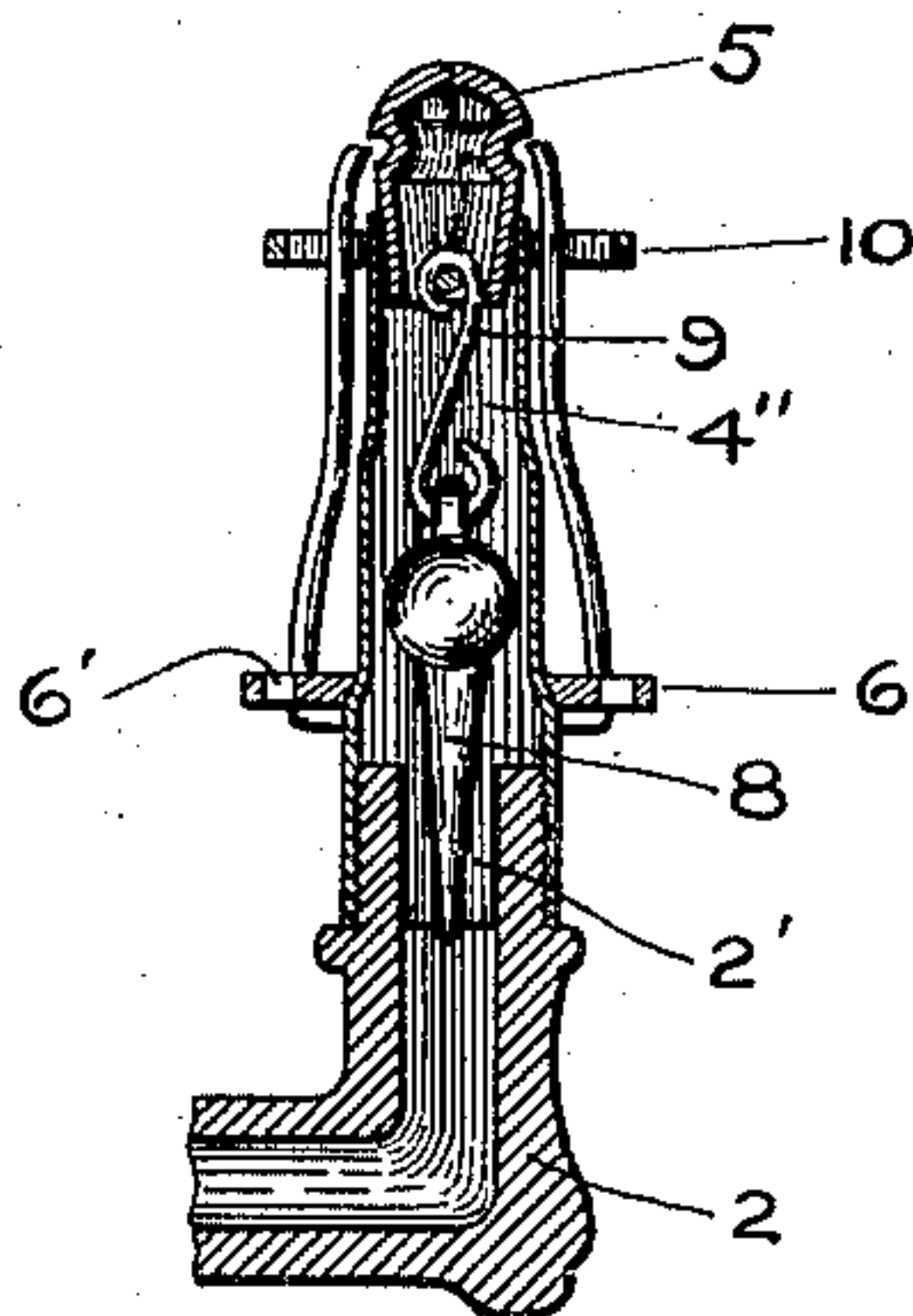
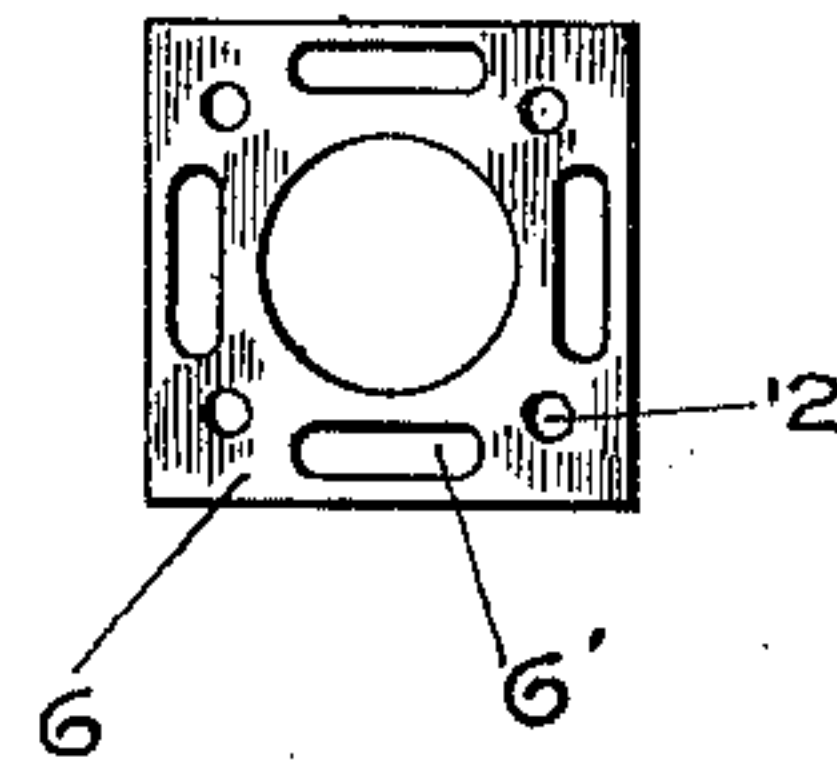


FIG. 4.



Witnesses  
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## UNITED STATES PATENT OFFICE.

GEORGE SCHULZ, OF NEW YORK, N. Y.

## GUARD FOR GAS-BURNERS.

SPECIFICATION forming part of Letters Patent No. 731,510, dated June 23, 1903.

Application filed December 2, 1902. Serial No. 133,625. (No model.)

*To all whom it may concern:*

Be it known that I, GEORGE SCHULZ, a citizen of the United States, residing at New York, in the county and State of New York, have invented certain new and useful Improvements in Guards for Gas-Burners, of which the following is a specification.

My invention relates to improvements in guards for gas-burners; and the object thereof is to prevent the removal of the tips from said burners or the insertion of the latter into the couplings of tubing. It sometimes occurs that tenants renting rooms and entitled to use gas for illuminating purposes only remove the tips from gas-burners and attach tubes to the latter and to gas-stoves, using the latter for warming, cooking, or laundry purposes. Where my devices are attached to gas-burners, such unauthorized use of the gas would be quite impossible. Furthermore, suicidal intentions would thereby be rendered more difficult of accomplishment, as the tips could be raised but a short distance from their sockets, and therefore the flow of gas from the burner would at the most be limited and probably stopped entirely. Moreover, by my invention means are provided for stopping said flow of gas entirely should a tip be removed from its burner by first severing a metallic link which connects said members.

In the drawings, Figure 1 is a side elevation of a gas-bracket embodying my invention. Fig. 2 is a rear elevation thereof. Fig. 3 is a vertical longitudinal section of a burner, showing the tip and a valve in place therein and a connection from the tip to the valve. Fig. 4 is a bottom plan view of a detail.

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

Referring to the drawings, 1 designates a gas-pipe having screw-threaded ends 1' 1'', adapted, respectively, to be attached to a supply-pipe and to an elbow 2, which may contain an ordinary valve 3. A burner 4, having a taper bore 4'', is attached to the elbow 2 by a screw-thread in the usual manner, and a tip 5, which may be of any suitable form, may be inserted in a socket 4', of common form, in the free end of said burner. A plate 6, preferably having a polygonal perimeter, (herein shown as square,) has slots 6' formed therein. A guard 7, preferably made of sheet

metal, has a loop 7' at one end, which is connected with the plate 6 at one of the slots 6', and another loop 7'' at the other end, which surrounds the gas-pipe 1 or the elbow 2, as may be desired.

A valve 8 is adapted to be seated in and close the outlet-orifice 2' of the elbow 2 and is so connected to the tip 5 by a metallic link 9 as to be retained in a suspended position by said tip. The valve 8 is of greater transverse dimensions than the smaller part of the taper bore of the burner 4, but less than those of the larger part of said bore. A ring 10 surrounds the upper portion of the burner 4, being held in place by metallic posts 12, which are secured to the plate 6, the ends 12' of the posts projecting nearly to the outlet of the tip 5.

The operation and advantages of my invention will be readily understood by those skilled in the art to which it appertains. All the members of the device being normally positioned, as shown and described, a tube or coupling cannot be fitted upon the burner 4 either inside or outside of the ring 10 and the ends 12' of the posts 12. The tip 5 cannot be removed from the burner 4 unless the link 9 be severed, and in the latter event the valve 8 drops upon and closes the outlet-orifice 2' of the elbow 2. Moreover, the burner 4 cannot be removed from the elbow 2, being retained thereon by means of the guard 6. Thus also it will be seen the gas which is permitted to pass through the burner cannot be burned, except at the orifice of the tip 5, for although the latter may be raised slightly above its seat in the burner it would be impossible to fix it in such a raised position that it would not impede or stop the flow of gas through the burner, and even in the event of accomplishing this end it will be seen that the increased outflow of gas could not be utilized. The slots 6' provide a plurality of points for the proper engagement of the guard-loop 7' when the burner 4 is screwed tightly upon the elbow 2, and the latter may be soldered or otherwise so secured upon the pipe 1 that it cannot be unscrewed therefrom.

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  
5 scope of my invention and improvements. I therefore reserve the right to all such variations and modifications as properly fall within the scope of my invention and the terms of the following claims.

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

1. A device of the class described, comprising a burner having a separable tip; a link  
15 connected to said tip; a valve suspended by said link; and an outlet communicating with the burner and in form adapted to be closed by the valve.

2. A device of the class described, comprising

a burner; a slotted member fixed upon  
20 and surrounding said burner radially; a pipe arranged to supply gas to the burner; and a guard connecting the pipe and the slotted member.

3. A device of the class described, comprising a burner; a member having a plurality  
25 of slots formed near to its edge and fixed upon and surrounding said burner radially; a pipe arranged to supply gas to the burner; and a guard connecting the pipe and the slot-  
30 ted member.

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

GEORGE SCHULZ.

Witnesses:

CHAS. H. DAVIDS,  
J. CLARK PYBAS.