

M. G. RAY.  
GAS BURNER ATTACHMENT.  
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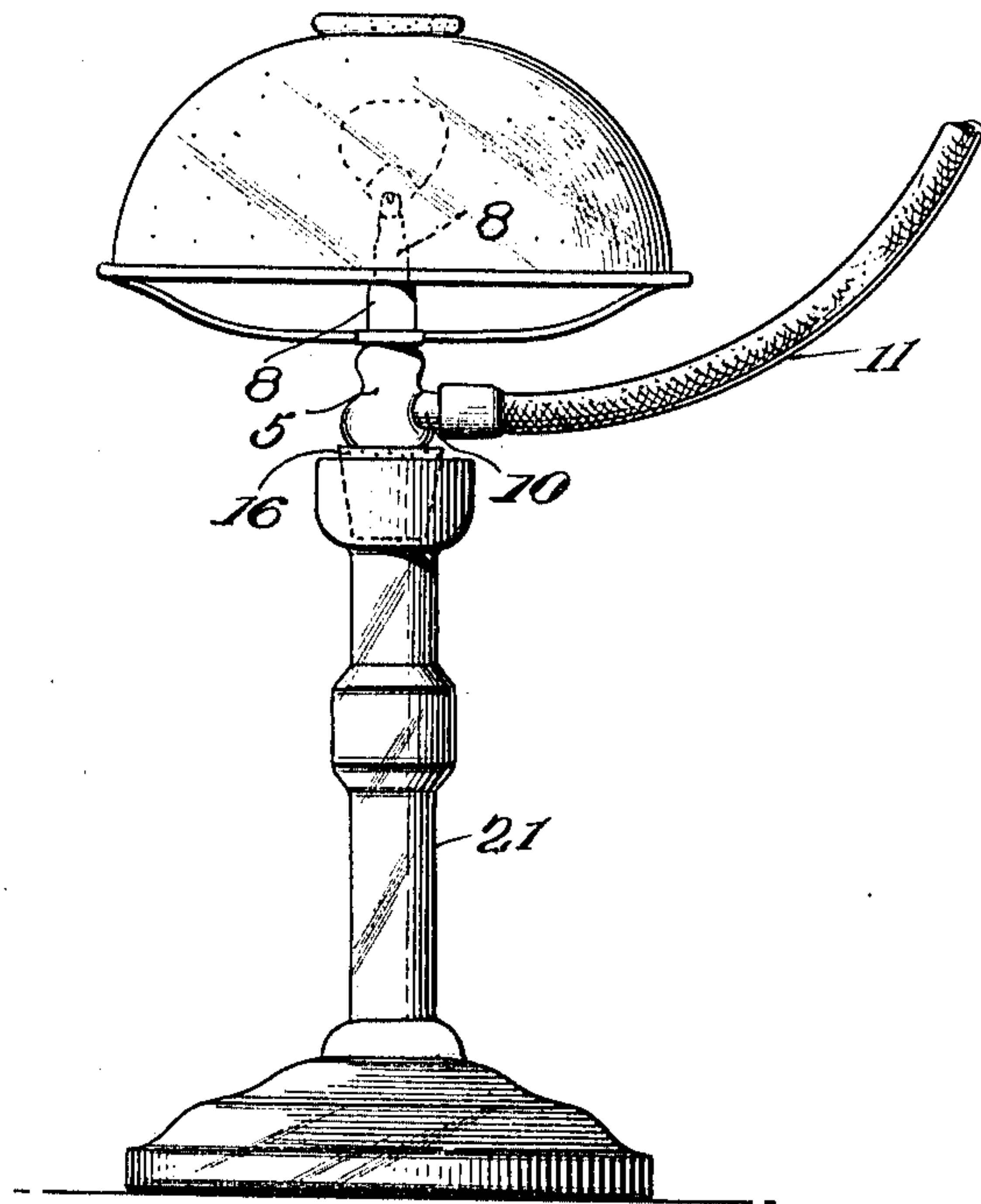


Fig. 1.

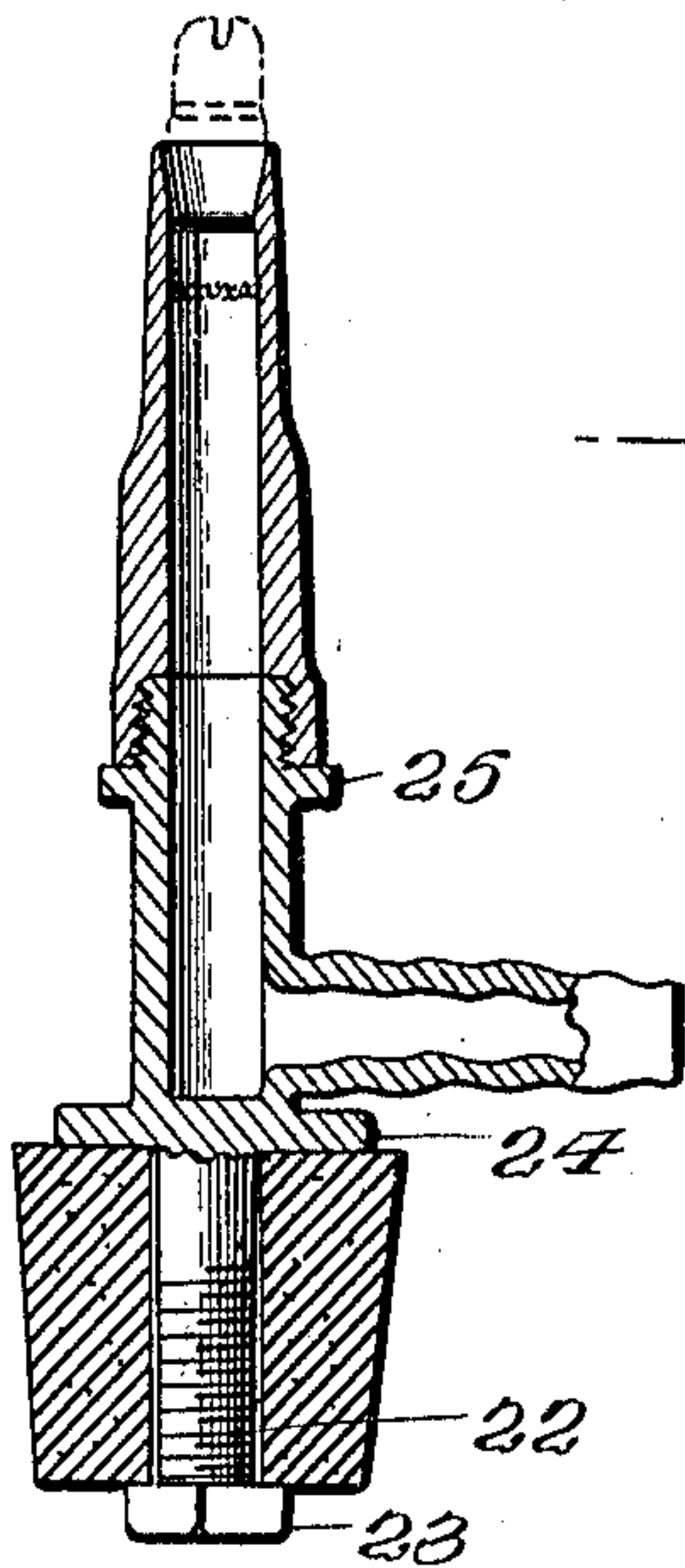


Fig. 4.

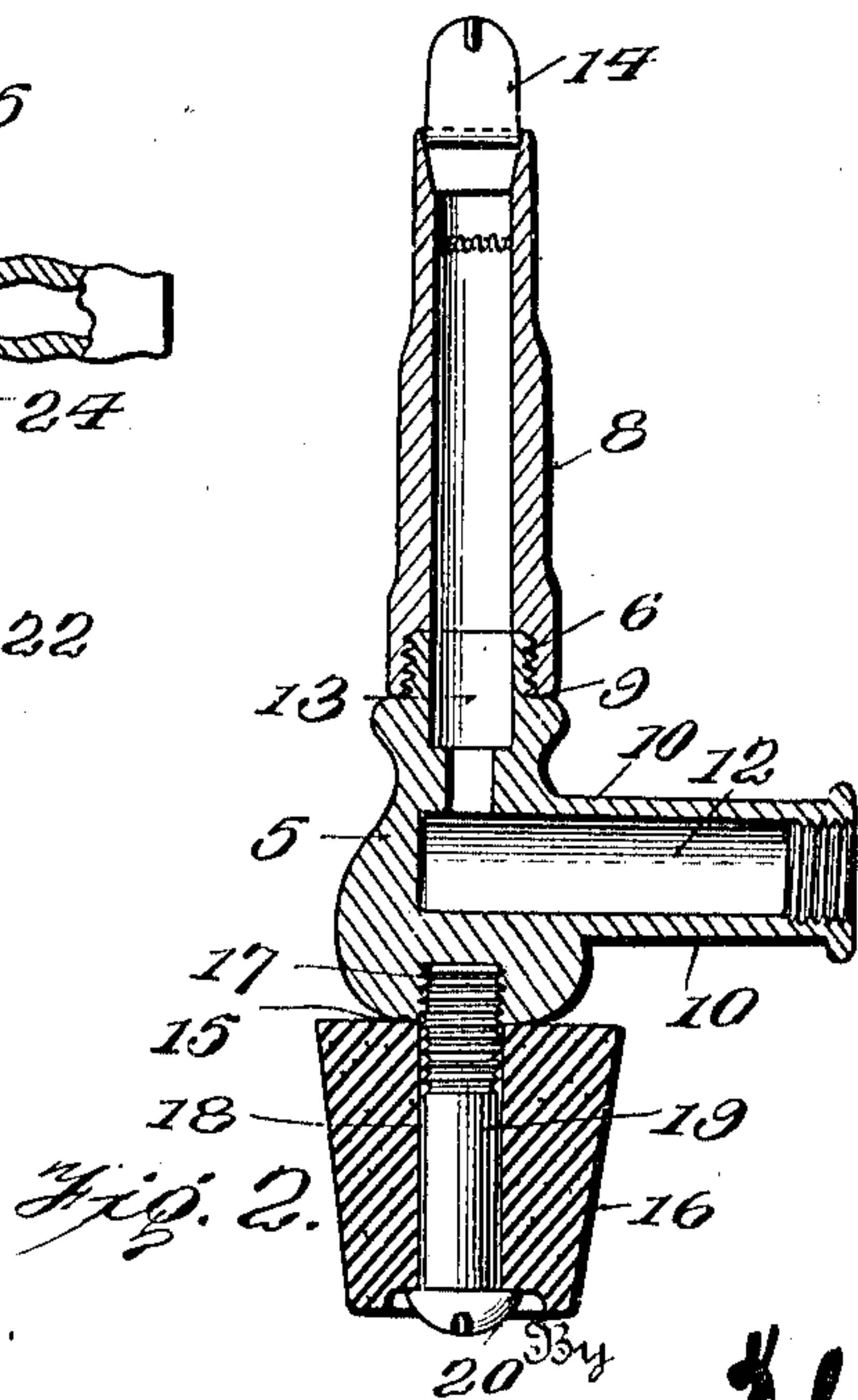


Fig. 2.

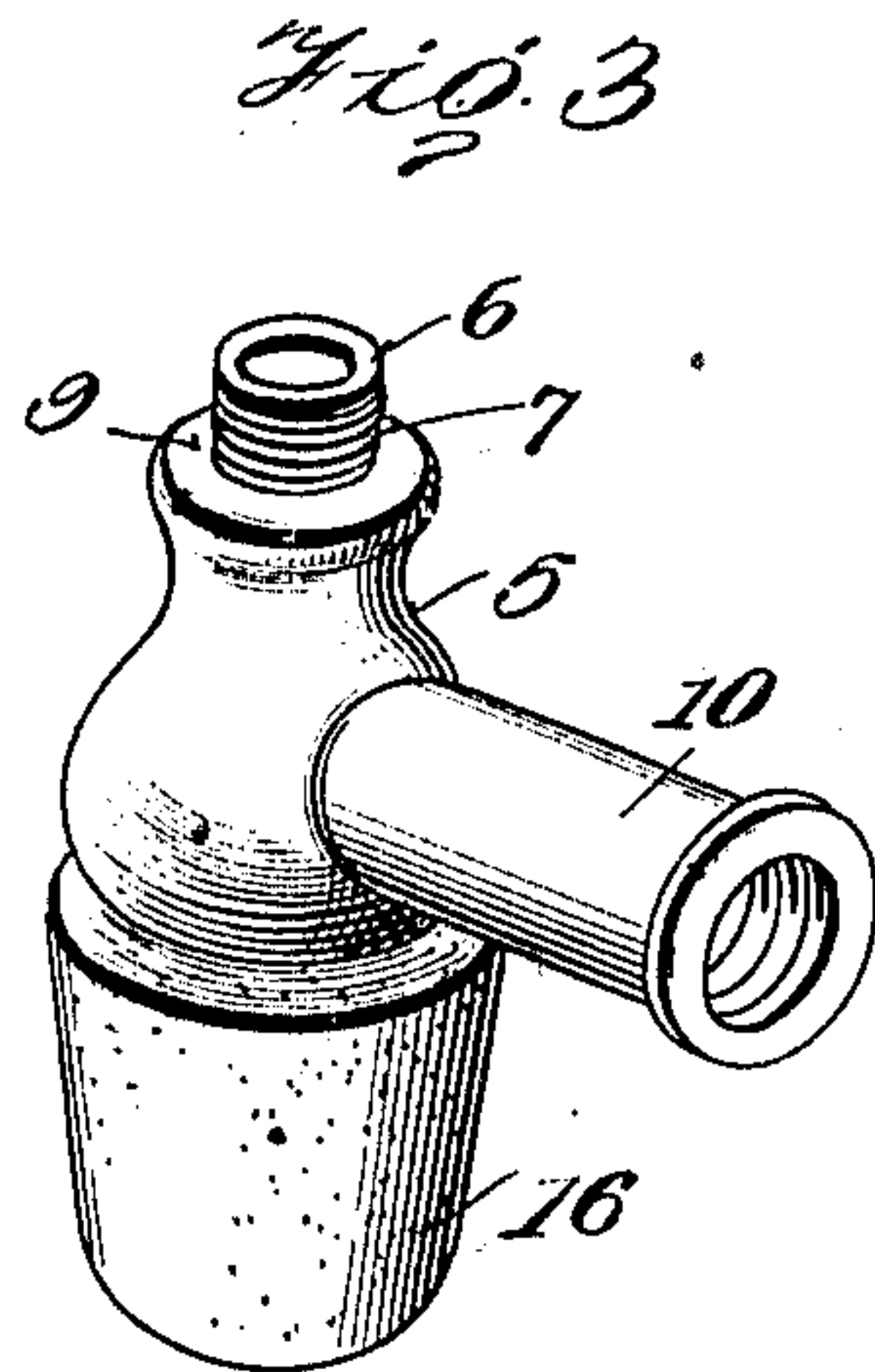


Fig. 3.

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# UNITED STATES PATENT OFFICE.

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## GAS-BURNER ATTACHMENT.

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Specification of Letters Patent.

Patented Dec. 13, 1910.

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*To all whom it may concern:*

Be it known that I, MARK G. RAY, citizen of the United States, residing at Richmond, in the county of Henrico and State of Virginia, have invented certain new and useful Improvements in Gas-Burner Attachments, of which the following is a specification.

This invention relates to gas burner attachments and has for its object the provision of a comparatively simple and thoroughly efficient device of this character, capable of being readily attached to a candle-stick or other support, thereby to form a drop light.

A further object is to provide a gas fitting including a casing having a threaded terminal for engagement with a burner and provided with an angularly disposed nipple for connection with a gas tube or conductor.

A further object is to provide the casing with a tapered plug adapted to frictionally engage the walls of a candle-stick or other suitable support, thereby to prevent accidental displacement of said casing.

A still further object of the invention is generally to improve this class of devices so as to increase their utility, durability and efficiency, as well as to reduce the cost of manufacture.

Further objects and advantages will appear in the following description, it being understood that various changes in form, proportions and minor details of construction may be resorted to within the scope of the appended claims.

For a full understanding of the invention and the merits thereof, reference is to be had to the following description and accompanying drawings, in which:

Figure 1 is a side elevation of a gas burner constructed in accordance with my invention, showing the same in position on a candle-stick; Fig. 2 is a vertical sectional view of the gas fitting detached; Fig. 3 is a perspective view; Fig. 4 is a vertical sectional view illustrating a modified form of the invention.

Corresponding and like parts are referred to in the following description and indicated in all the views of the drawings by the same reference characters.

The improved gas fitting forming the subject matter of the present invention comprises a casing 5 having a reduced extension 6, the exterior walls of which are threaded

for detachable engagement with a gas burner 8, there being a circumferential shoulder 9 formed on the casing at the base of the extension 6 and adapted to bear against the lower end of the burner 8, as shown.

Secured to or formed integral with the casing 5 is an angularly disposed nipple 10 for connection with a tube or conductor 11 leading to a suitable source of gas supply, said casing being provided with intersecting passages 12 and 13 through which the gas flows from the conductor 11 to the burner tip 14.

The base of the casing 5 is provided with a flat bearing surface 15 which forms an abutment for a tapered plug 16, there being a threaded socket 17 formed in the base 15 and preferably disposed in vertical alignment with the extension 6, as shown. The plug 16 may be formed of rubber, cork, asbestos or other yieldable material and is provided with a vertically disposed bore 18 adapted to receive a bolt or similar fastening device 19, which latter engages the threaded socket 17 and serves to clamp the plug in position on the base 15. The lower or small end of the plug is preferably countersunk at 20 to receive the head of the screw or fastening device 19. The plug 16 is adapted to be inserted in the mouth of a candle-stick or other suitable support, indicated at 21, the tapered walls of the plug, by frictional engagement with the interior walls of the candle-stick, serving to retain the fitting in position thereon and thus permit the candle-stick to be used as an ordinary drop light. If desired however, the plug 16 may be inserted in the mouth of a bottle, jar or the like, or in the bowl of an oil lamp, without departing from the spirit of the invention.

It will here be noted that by making the plug 16 of yieldable material, said plug may be inserted in the threaded burner receiving opening of a lamp or the like without injury to the threads.

In Fig. 4 of the drawings, there is illustrated a modified form of the invention in which the base of the casing is provided with a depending stem 22 having its lower end threaded for engagement with a clamping nut 23, said casing being provided with spaced laterally extending flanges 24 and 25 for engagement with the tapered plug and burner, respectively.



The device is extremely simple in construction and may be manufactured and placed on the market at a comparatively small cost.

Having thus described the invention,  
5 what is claimed as new is:

1. A device of the class described including a casing having angularly disposed passages for connection with a burner and gas tube, respectively, and a tapered plug  
10 formed of yieldable material depending from the casing for frictional engagement with the walls of a supporting socket.

2. A device of the class described including a casing having angularly disposed passages for connection with a burner and gas  
15 tube, respectively, a plug formed of yieldable material engaging the base of the casing and adapted to frictionally engage the walls of a supporting socket, and means for  
20 clamping the plug in position on the casing.

3. A device of the class described including a casing having angularly disposed passages for connection with a burner and gas tube, respectively, and provided with a flat  
25 base having a threaded socket formed therein, a tapered plug formed of yieldable material bearing against the flat base of the

casing, and a clamping screw extending through the plug and engaging the threaded walls of the socket for clamping the plug  
30 in position on the casing.

4. A device of the class described including a casing having a tubular extension, the end of which is reduced and threaded for engagement with a burner and provided with  
35 an angularly disposed nipple for connection with a gas tube, there being a threaded socket formed in the base of the casing, a tapered plug formed of yieldable material bearing against the base of the casing and  
40 provided with a central bore registering with said socket, the small end of the plug being countersunk, and a clamping screw extending through the bore of the plug and having its head seated in the countersunk  
45 portion of the plug and its threaded end engaging the socket.

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

MARK G. RAY. [L. s.]

Witnesses:

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