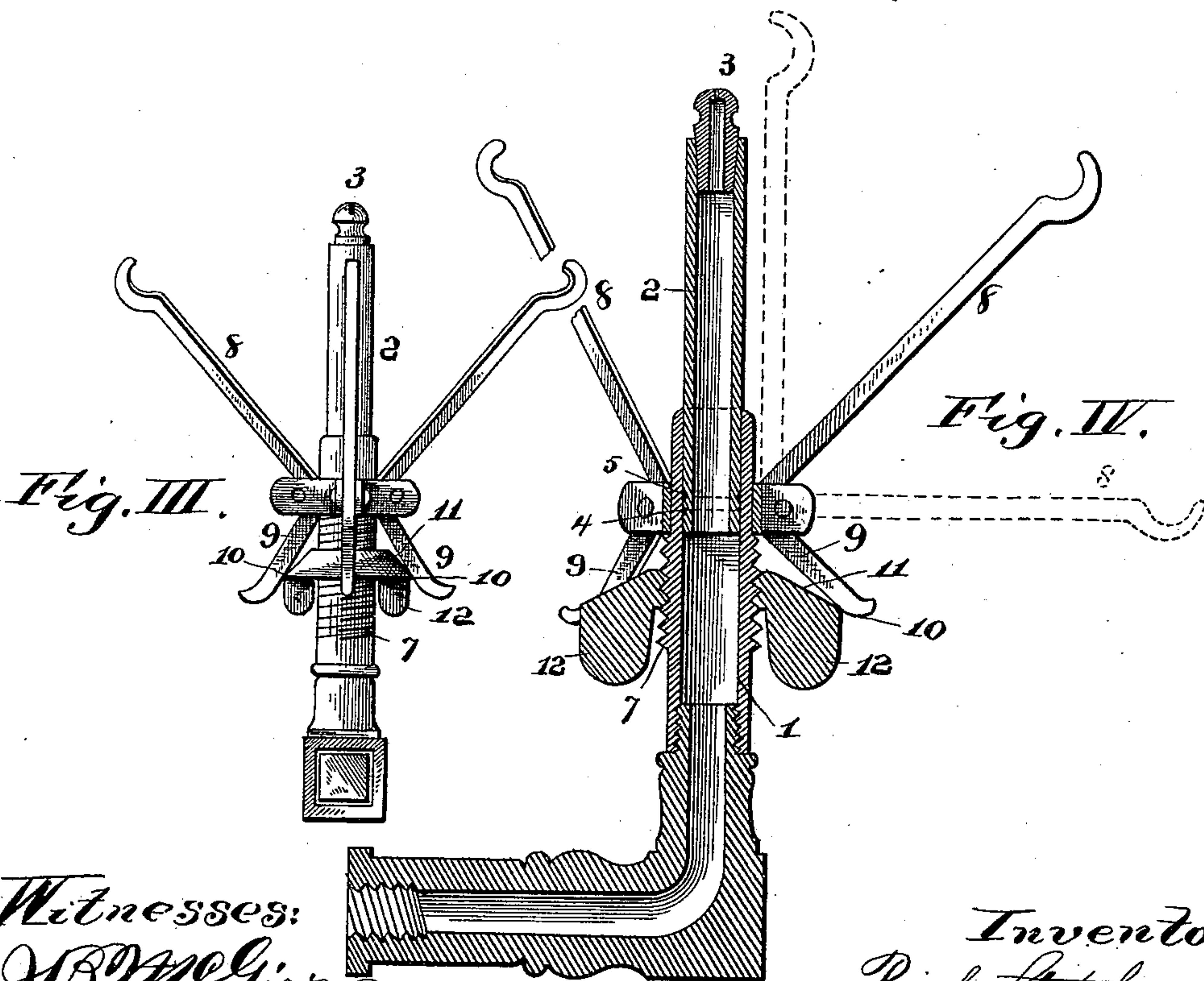
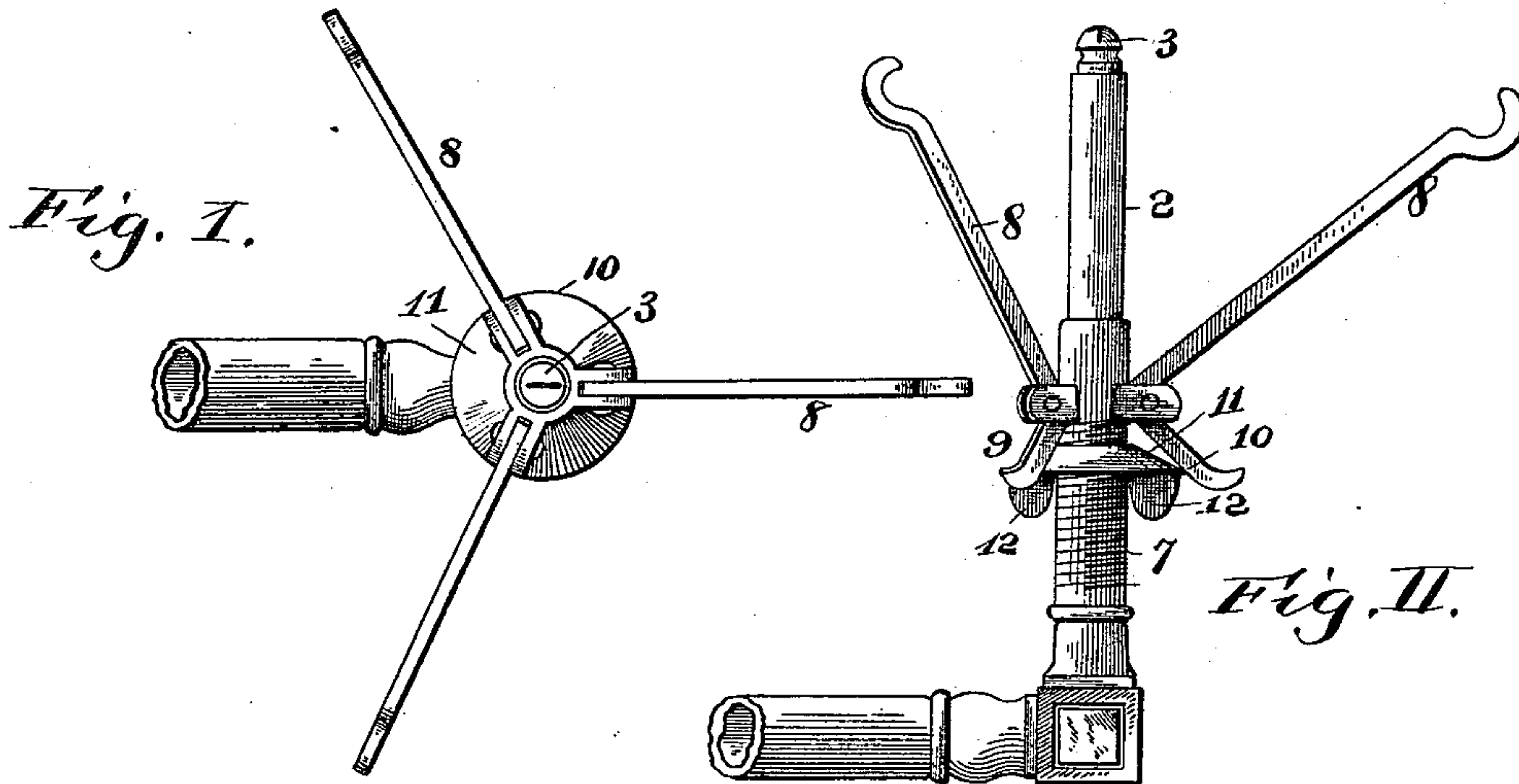


(No Model.)

P. STEPHANSKY.  
ATTACHMENT FOR GAS BURNERS.

No. 449,712.

Patented Apr. 7, 1891.



Witnesses:  
J. B. McGiv.  
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Inventor:  
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By his Attorneys,  
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# UNITED STATES PATENT OFFICE.

PAUL STEPHANSKY, OF BOSTON, MASSACHUSETTS.

## ATTACHMENT FOR GAS-BURNERS.

SPECIFICATION forming part of Letters Patent No. 449,712, dated April 7, 1891.

Application filed June 4, 1890. Serial No. 354,254. (No model.)

*To all whom it may concern:*

Be it known that I, PAUL STEPHANSKY, a citizen of the United States, residing at Boston, in the county of Suffolk and State of Massachusetts, have invented certain new and useful Improvements in Attachments for Gas-Burners; 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.

My invention relates to improvements in a holder or gallery for globes or shades of gas and other lights; and the object of my invention is, first, to simplify the construction of the holder, reduce the cost of manufacturing the same, promote efficiency and certainty of operation, and adapt the device for holding globes or shades of different sizes; and, secondly, to provide means for connecting the burner adjustably to the device in such a manner as to maintain a gas-tight joint between the parts.

With these ends in view my invention consists of the combination of devices and peculiar construction and arrangement of parts, as will be hereinafter fully described, and particularly pointed out in the claims.

To enable others to understand my invention, I will now proceed to a detailed description thereof in connection with the accompanying drawings, in which—

Figure I is a plan view of a shade-holder embodying my invention. Figs. II and III are side elevations thereof, showing the clasp-arms in their expanded and contracted positions. Fig. IV is a vertical sectional view on an enlarged scale.

Like numerals of reference denote corresponding parts in all the figures of the drawings, referring to which—

1 designates the single upright tube of my improved holder for globes or shades for gas and other lights, which tube is adapted to be applied or secured in any suitable manner to a gas pipe or fixture. This tube is preferably of uniform diameter, with a smooth interior surface, and in the upper open end of said tube is fitted tightly a burner-tube 2, which carries an ordinary burner-tip 3 at its outer exposed end. The burner-tube 2 is movable lengthwise in the holder-tube 1, and in order

to maintain a tight joint between said tubes to prevent the leakage of gas I provide the burner-tube with an annular groove 4, in which is placed an elastic packing 5, preferably a rubber or leather washer, by which the escape of gas between the tubes is effectually prevented. This holder-tube 1 is further provided near its upper end with a series of three or more equidistant ears 6, made integral with said tube, and below these ears the tube is screw-threaded externally for a suitable distance, as at 7.

To the spaced ears of the holder-tube are pivoted the clasp-arms 8, which constitute the gallery or holder proper for the support of the globe or shade. The clasp-arms are each bent at an intermediate point of its length to provide the straight smooth-edged prongs 9 at the lower end of the clasp-arm, and said clasp-arms are pivoted at the bends therein to the spaced lugs on the holder-tube, the pivots being horizontal or at right angles to the holder-tube to adapt said arms to be moved inward toward each other and contracted to fit a globe, or to be moved outward from each other and expanded to fit upon a larger globe or release the globe between said arms, such expansion and contraction of the series of arms 8 being effected simultaneously by a rotary nut 10. This nut 10 is fitted on the screw-threaded portion of the holder-tube to work freely thereon, and the upper surface of said nut is inclined at an angle to the axis of the holder-tube, so as to provide a cam-surface 11, against which cam-surface impinges the inclined prongs 9 on the clasp-arms, the inclination of the cam-surface and the series of prongs being about the same, so that all the prongs bear or press uniformly on the cam-surface of the nut, and are adapted to be simultaneously and uniformly adjusted or moved by said nut.

From the foregoing it is obvious that the clasp-arms can be simultaneously contracted to clasp a globe by elevating the rotary thumb-nut on the holder-tube, or they can be expanded to release a globe or shade by lowering said nut, which nut is provided with depending ears or lugs 12 to enable the operator to conveniently grasp and manipulate the nut.

In an attachment for gas-fixtures in which



the shade-holding arms are adjustable at different heights or elevations and to grasp shades of different sizes it is important and desirable that the burner should be adjustable vertically to insure the proper location of the burner and the gas-jet issuing therefrom within the shade, and I therefore make such burner-tube adjustable vertically and longitudinally within the holder-tube and at the same time provide a gas-tight packing between said tubes to effectively avoid leakage of the gas.

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

1. The combination of a holder-tube having the smooth bore of uniform diameter, a grooved burner-tube fitted tightly in said holder-tube, an elastic packing for the groove of the burner-tube and movable with the latter, and the vertically-adjustable shade-holding arms, substantially as described.

2. The combination of the holder-tube, a burner-tube fitted tightly within said hold-

er-tube and adjustable vertically therein, the shade-holding arms pivoted on the holder-tube, and means for moving said arms vertically for the purpose described, substantially as set forth.

3. The combination of the fixed externally-threaded holder-tube having an internal smooth bore, the vertically-adjustable burner-tube fitted tightly within the holder-tube and provided with the burner-tip at its upper end and the groove at the lower end thereof, the packing fitted in the groove of the burner-tube and movable therewith, the adjustable shade-holding arms pivoted on said fixed holder-tube, and the nut operating on the threaded portion of the holder-tube and impinging on the shade-holding arms, substantially as described.

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

PAUL STEPHANSKY.

Witnesses:

JAMES GREEN,  
JAMES GIBSON.