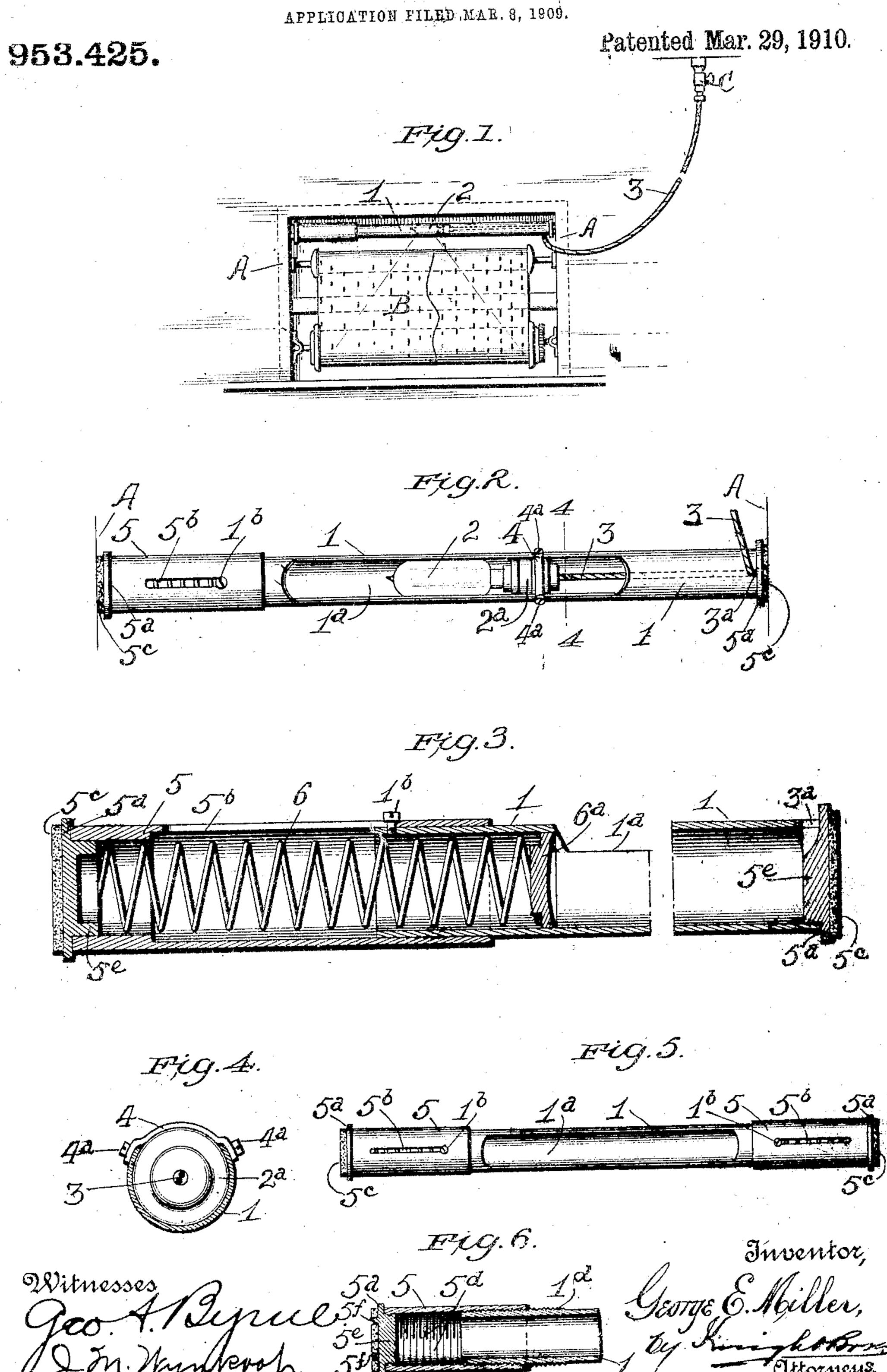
## G. E. MILLER.

HOODED ELECTRIC LAMP.



## UNITED STATES PATENT OFFICE.

GEORGE E. MILLER, OF TAKOMA PARK, DISTRICT OF COLUMBIA.

HOODED ELECTRIC LAMP.

953,425.

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To all whom it may concern:

Be it known that I, George E. MITLER, a citizen of the United States, and a resident of Takonia Park, in the District of Colum-5 bia, have invented a certain new and useful Hooded Electric Lamp, of which the

following is a specification.

that type which are designed to illuminate | cumference of the tubular structure cover- 35 10 a certain restricted area and which are hooded to prevent radiating light in other directions, as for instance toward the eyes of the observer or toward the surface from which it would be reflected in a manner to | The lamp 2, fed by the usual flexible cable 79 15 interfere with observation of the surface in- 3 leading from an external supply connection tended to be illuminated.

supporting means adapting it to be intro- | port and clamping it into position by a clip 75 20 duced between two opposed walls where it | 4 secured to the support 1 by screws 42, will support itself by friction with those

walls.

My invention will be fully understood upon reference to the accompanying draw-

25 ing in which.

Figure 1 is a view showing my lamp applied to one of the uses for which it is exposure opening while the impingement of adapted. Fig. 2 is a plan view of the lamp | the serews 4ª hold the lamp firmly in poseen from the side of its exposure opening. | sition. 30 Fig. 3 is an enlarged axial section of the combined hood and support, an intermediate portion of which is omitted. Fig. 4 is a transverse section on the line 4-4 of Fig. 2 being in a plane immediately in rear of 35 the lamp secket and looking toward the latter. Fig. 5 is a view corresponding to Fig. 2, but with the lamp omitted, showing a modification embodying a duplication of the sustaining means. Fig. 6 is a vertical axial 40 section of one end of the support showing a modified construction of sustaining means.

The lamp comprises a combined hood and support 1 preferably of clongated tubular construction of relatively small diameter, 45 constructed to receive and support an elec-Trie lamp 2, and having suitable means for increasing its length and developing sufficient end thrust or pressure to support it between two opposed walls or faces, such for 50 instance as the sides A of the tracker-bar opening of a player-piano where it will illuminate the perforated music sheet, or between any opposed faces which happen to be associated in location with an area to be 55 illuminated. By constructing the combined hood and support of proper length, the lamp

could obviously be located between the sides of the protecting easing around an oil painting, or be located over an archway or in the well of a desk, and in numerous other places. 37

The combined hood and support 1 is cut away to provide an exposure opening 1ª on one side through which the light of the lamp . My invention relates to electric lamps of | may be radiated, the remainder of the ciring such portion of the circumference as may be desired, being retained to hood or shield the light and prevent its radiation, in directions which would be objectionable. C may be seemed in the support I in any More specifically, my invention relates to | suitable manner. I prefer to secure it by a lamp of this type having self contained introducing it endwise into the tubular supwhich screws may impinge the lamp socket 2ª to bold it more firmly in position, the clip I serving to prevent spreading of the sides under the pressure of the screws thus im- 80 posed. Or the clip 4 may merely serve the purpose of tying together the walls of the

To make the lamp self supporting, the support 1 is provided with means, preferably in the form of an axially movable sleeve or sleeves 5 so combined with the support that outward thrust or pressure 90 may be imparted to it, sufficient to firmly bind the heads 5° of the support against two opposed walls and hold it there by friction. The preferred means for accomplishing this end is a spring 6 interposed between the 95 telescoping parts I and 5. To limit the movement of the parts 1 and 5, they are respectively provided with a limiting stop 1º and an engaging slot 5º. The heads 5a may be provided with any suitable means 100 for increasing friction which will be selected according to the size and weight of the lamp to be supported, but I prefer to face the heads 5° with a cushioning medium 5° which may be of such character as to pro- 105 duce necessary friction and at the same time prevent disfiguring the surfaces between which the device is to be supported. The heads 5° may be conveniently fitted in position by providing them with cylindrical 110 extensions 5° that fit the tabular members to which they are applied. The spring 6

abuts at its respective ends between a specially provided abutment 6a and one of the heads 5a. The sleeve 5 is preferably counter-bored for that portion of its length which telescopes with the support 1.

At that end of the support I at which the lamp is introduced, a recess 3ª is formed in the tube and in the head for the admission of the lamp cord, which recess extends to 10 the end of the tube so that when the head 5° is removed, the lamp with its cord can be wholly separated from the support.

It will be understood that the longitudinal extension of the support serves not only 15 the purpose of developing end thrust which holds the lamp in position, but it adapts the device for use between walls of varying distances apart. In order to increase the range of application thus secured, the device may, 20 if preferred, be provided with two exten-

sible ends 5, as shown in Fig. 5.

I do not limit myself to the use of a resilient thrust-developing means as it will be understood upon reference to Fig. 6 that 25 this result may be measurably realized (especially where special means are provided for increasing friction). by employing a screw threaded connection 1d, 5d between the sleeve 5 and the tube 1 as shown. 30 In using the screw thread however. I would prefer to construct the head 5a with spurs 5<sup>t</sup> and to have the head 5<sup>a</sup> rotatable in the sleeve 5 so that the spurs could be embodied in the sustaining wall by rotating 35 the sleeve 5.

Having thus described my invention, what | I claim as new therein and desire to secure

by Letters Patent is:-

40 illuminating a restricted area comprising a tubular lamp inclosing and supporting member having a restricted exposure opening, and having means by which to develop endwise thrust adapting it to sustain itself in 45 angularly adjustable position between two opposed faces.

2. An adjustably self-supporting lamp for

illuminating a restricted area comprising a tubular lamp inclosing and supporting mem-50 ber having a restricted exposure opening, a lamp supported therein in position to emit its light through the exposure opening, a tubular member extensively mounted in telescoping relation to the lamp containing and 55 supporting member, means for developing an endwise thrust of the extension member relatively to the lamp inclosing and supporting member, and abutting ends provided on the structure to adapt it to sustain itself in 60 angularly adjustable position between two opposed faces.

3. In a lamp of the character described, the combination of a tubular support having an exposure opening, a lamp fitted in said support in position to emit its light through

the exposure opening, and means for frictionally supporting said lamp between opposed walls and permitting of its angular adjustment therein whereby to direct the rays of light emitted through the opening. 70

4. An adjustably self-supporting lamp comprising a main tubular lamp inclosing and supporting section having an exposure opening in one side thereof, a lamp supported in said section in position to emit its 75 light through said opening, an extension member telescoping with said main tubular section, and means contained within the main tubular section and the telescoping

extension, for developing end thrust.
5. An adjustably self-supporting lamp comprising a main tubular lamp inclosing and supporting section having an exposure opening in one side thereof, a lamp supported in said section in position to emit its 85 light through said opening, an extension member telescoping with said main tubular section, and means contained within the main tubular section and the telescoping extension, for developing end thrust; said main tubu- 90 lar member being provided with a transverse wall separating the lamp containing portion from the portion which contains the thrust developing means and forming an abutment for the latter.

6. In a lamp of the character described, the combination of a main tubular section having an exposure opening in one side thereof, a lamp supported in said section in position to emit its light through said open- 100 ing, and a spring pressed sleeve fitted on one end of said tubular section and coöperating with the other end thereof to hold the de-1. An adjustably self-supporting lamp for | vice in frictional engagement between opposed walls and permit of its angular ad- 105 justment, whereby to regulate the direction of the rays of light emitted through said opening.

> 7. A lamp support comprising a tubular body, a sleeve telescoping upon the end there- 110 of, a spring abutment secured in the tubular body, a head secured in the sleeve, and a spring introduced between said abutment and head and forcing the sleeve outward relatively to the tubular body; said tubular 115 body and sleeve being constructed with interengaging slot and pin limiting means.

8. In a lamp of the character described, the combination of a tubular support, a lamp carried by said support and adapted 120 to enter the same from one end, and an end closure for the end of the support through which the lamp is introduced; said tubular support and end closure being provided with a recess to receive an electric conductor lead- 125 ing to the lamp.

9. A lamp of the character described comprising a tubular support having a circumferential exposure opening, a lamp fitted in the tubular support in position to emit its 130

light through the exposure opening, and ineans binding the lamp against displacement in the support, said means comprising a clip tying together the walls of the tube, 5 and set screws introduced through the walls of the tube over a portion of the lamp. The foregoing specification signed at

Washington D. C. this 19th day of February, 1909.

GEORGE E. MILLER.

Witnesses: HERVEY S. KNIGHT, HUGH M. STERLING.

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