M. DOERR.

COLLAPSIBLE LAMP EXTENSION.

APPLICATION FILED APR. 14, 1919.

1,326,650. Patented Dec. 30, 1919.

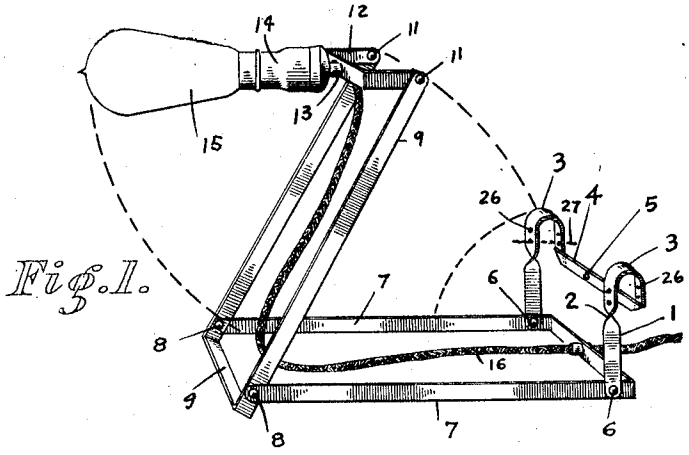


Fig. 1.

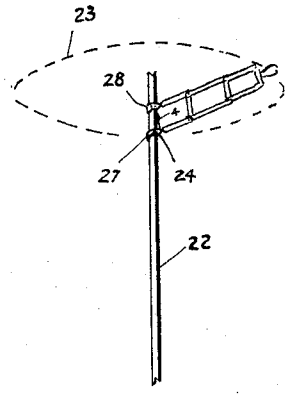


Fig. 4.

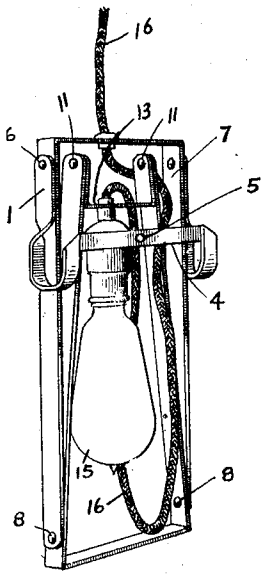


Fig. 2.

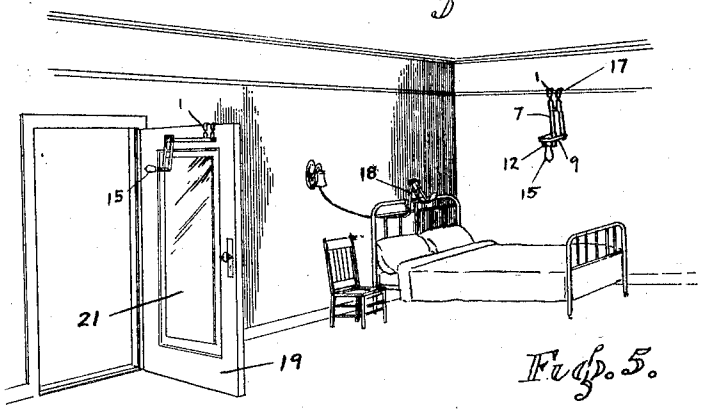


Fig. 5.

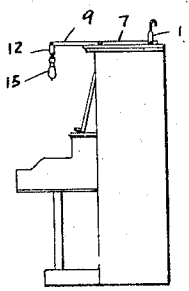


Fig. 6.

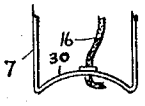


Fig. 7.

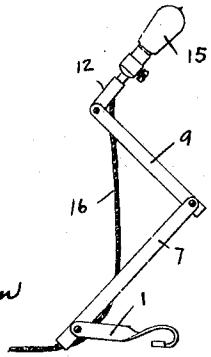


Fig. 3.

WITNESS
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UNITED STATES PATENT OFFICE.

MARTIN DOERR, OF SAN FRANCISCO, CALIFORNIA.

COLLAPSIBLE LAMP EXTENSION.

1,326,650. Specification of Letters Patent. Patented Dec. 30, 1919.

Application filed April 14, 1919. Serial No. 289,965.

To all whom it may concern:

Be it known that I, MARTIN DOERR, a citizen of the United States, and a resident of the city and county of San Francisco, State of California, have made a new and useful invention—to wit, Improvement in Collapsible Lamp Extensions; and I do hereby declare the following to be a full, clear, concise, and exact description of the same.

The present invention is an improved collapsible extension for incandescent lamp bulbs.

The object of the invention is to provide an extension with a wide range of utility, which may be simply and economically constructed of light stock material, and which when assembled will be easily and quickly extensible to many different useful positions, in which positions it will stand alone or depend from an overhang or ledge, such as a picture molding, the edge of a door, the back of a chair, or which may be secured to a rod or grille work, or removably attached to many articles at hand in the home or office.

Another object of the invention is to provide an extension containing these properties, which is collapsible in very small and compact form, rendering it a valuable accessory for travelers as well as for household, office or shop use.

In this specification and the annexed drawing, the invention is illustrated in the form considered to be the best, but it is to be understood that the invention is not limited to such form, because it may be embodied in other forms, and it is also to be understood that in and by the claims following the description, it is desired to cover the invention in whatsoever form it may be embodied.

In the accompanying one sheet of drawings,

Figure 1 is a perspective view of my improved extension in one position showing an electric light service wire and incandescent bulb installed thereon.

Fig. 2 is a view of the same in collapsed position.

Fig. 3 is a side elevation of my extension in one possible position.

Fig. 4 is a perspective view showing my extension attached to a vertical pipe.

Fig. 5 is a perspective view of an interior of a room showing various adaptations of my invention.

Fig. 6 is a side elevation of a piano showing my extension in use as a piano lamp.

Fig. 7 is a modified form of one member.

Referring to the drawing, Fig. 1, it will be seen that the structure herein described comprises a plurality of U shaped metal strips pivotally connected together in end to end relation, the said U shaped members being progressively smaller as they approach the lamp socket in order that the entire structure may fold within itself as shown in Fig. 2. The larger U shaped member, represented by the numeral 1, is bent as shown at 2 and then curved over as indicated at 3—3 to form a hook having a depending lip 4 adapted to enter a crevice such as a picture-molding, and also the lip 4 serves to unite the two hooks 3 giving greater solidity to the structure and providing a more rigid attachment than a single hook or than two single hooks. The lip 4 is provided with a hole 5 to engage a nail or similar article from which the support may be hung. The U shaped member 1 is pivotally connected as shown at 6 to a U shaped member 7 which in turn is pivoted as shown at 8 to a similar U shaped member 9 which is pivoted at the opposite ends in a similar manner as shown at 11 to a U shaped member 12.

Obviously the number of U shaped members may be increased to suit the need of the user, but I have shown a suitable number here to illustrate the principle of my invention. The U shaped member 12 has a suitable socket connected as shown at 13 for securing an incandescent lamp socket 14 carrying the bulb 15 which is served by the electric service wire 16 leading to any suitable conductor of electric current. The pivotal connection of the U shaped members shown at 6, 8 and 11, may be of various forms of conception, the purpose being to rivet or otherwise pivotally engage the said members in such a manner that frictional engagement will cause the structure to maintain any position into which it is bent to such a degree that it will support the weight of the socket 13 and bulb 15 and yet be releasably secured and easily altered to a new position to suit the needs of the occasion under which it is used. Obviously a split washer or fiber washer might be used to advantage without departing from the spirit of my invention. In Fig. 3 I have shown the structure herein described in a self-sup-

porting position, such as on a reading table or bed, or in the center of a dining table. In Fig. 5 I have shown at 17 a picture-molding from which depends my improved light extension. In the same figure, at 18, I have shown a metal bedstead with my fixture attached thereto for the use of a reader or a patient. I have also shown in Fig. 5 another adaptation of my extension on a door 19 from the uppermost edge of which is suspended my extension before a mirror 21 illustrating a possible use for a person shaving.

In Fig. 6 I have shown one adaptation of my extension to light the music on the piano. Obviously my invention is capable of many and various uses not shown here, but I have shown a number to illustrate the application thereof. In Fig. 4 I have shown a pipe or vertical rod 22 which might be a steam pipe or water service pipe or a vertical member of any grille work, the purpose here being to illustrate another method of attachment that makes my extension more adaptable. It will be seen that the extension is here shown fully extended from said pipe and obviously it might be collapsed and still be movable, as indicated by the dotted line 23. The structure is here supported by the weight of the U shaped members and the socket being fulcrumed on the rod 22 as shown at 24. The U shaped member 1 is provided with a plurality of holes 26. When it is desired to suspend my extension from a vertical rod such as 22, a nail or pin is inserted through two of the holes 26 as indicated at 27, on the lower portion of the hook member of the U shaped member 1. It will be seen that the leverage of the weight of the extension will cause an outward pull on the upper portion of the hook member as indicated at 28 and a pull in the opposite direction on the lower portion of said hook member which is held by the pin 27. This method secures the fixture from any tendency to slide downward on the rod 22 and yet permits its rotation as indicated by the dotted lines 23. This enables a workman for instance in a shop, to get a wide range of light for his work from such an adjustment.

In Fig. 7 I have shown a modification adaptable to all the U shaped members to prevent fouling or chafing the wire 16. The central transverse portion 30 of each member may be arcuate as shown in Fig. 7.

Having thus described this invention, what I claim as new and desire to secure by Letters Patent of the United States is:—

1. An extensible incandescent lamp support comprising a plurality of U-shape members pivotally connected in end to end relation, one of said members provided with a hook integral therewith at one end of the support and another of said U-shape members at the opposite end provided with means for engaging a lamp socket.

2. An extensible collapsible lamp support comprising a plurality of U-shape members of progressively decreasing width pivotally connected in end to end relation, one end member provided with means for engaging a lamp socket, the other end member provided with a hook integral therewith.

3. An extensible lamp socket comprising a plurality of U-shape members of progressively decreasing width pivotally connected in end to end relation, one of said end members provided with means for engaging a lamp socket, and the other end member provided with a hook integral therewith and having a plurality of registering holes in said hook as and for the purposes described.

In testimony whereof I have hereunto set my hand at San Francisco, California, this 1st day of April, 1919.

MARTIN DOERR.

In presence of—
A. J. HENRY.