(No Model.) .

C. P. JOHNSON.

LAMP FLUE HOLDER.

No. 564,286. Patented July 21, 1896.

Fig. 2.

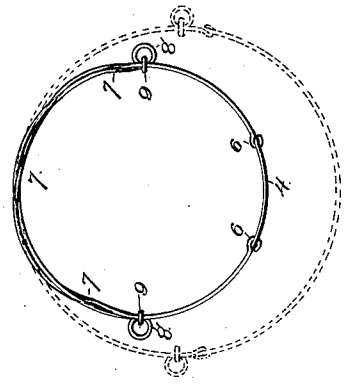


Fig. 3.

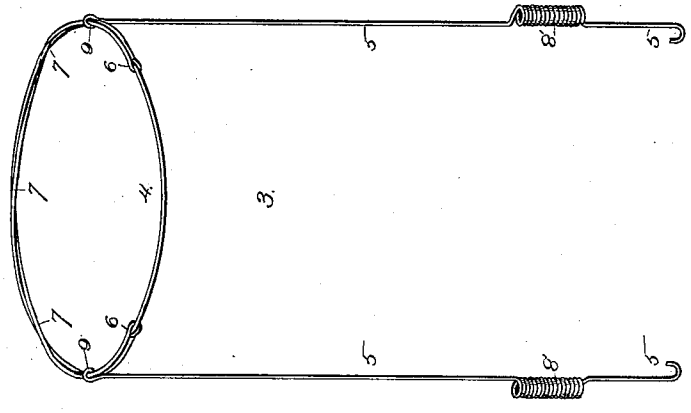
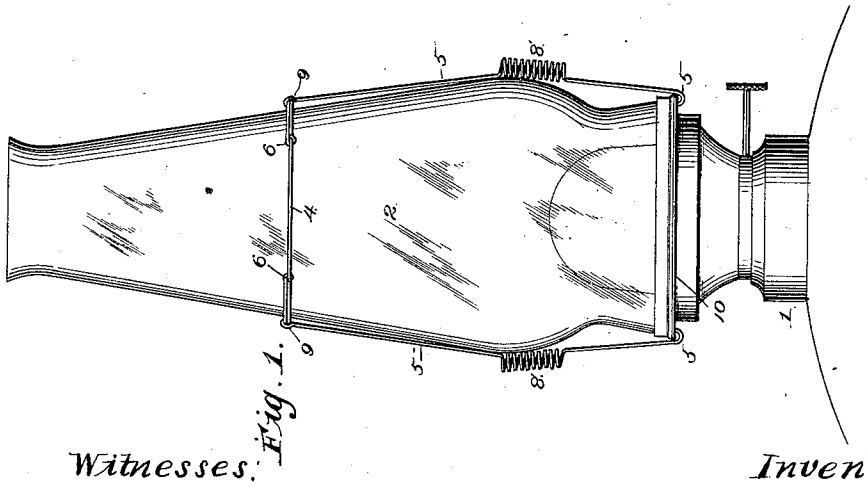


Fig. 1.



Witnesses.
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C. L. Thorpe.

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UNITED STATES PATENT OFFICE.

CHARLES P. JOHNSON, OF EUREKA, KANSAS, ASSIGNOR OF TWO-THIRDS TO ROBERT BRYDEN, OF SAME PLACE, AND J. D. MORLEY, OF EL DORADO, KANSAS.

LAMP-FLUE HOLDER.

SPECIFICATION forming part of Letters Patent No. 564,286, dated July 21, 1896.

Application filed February 24, 1896. Serial No. 580,608. (No model.)

To all whom it may concern:

Be it known that I, CHARLES P. JOHNSON, of Eureka, Greenwood county, Kansas, have invented certain new and useful Improvements in Lamp-Flue Holders, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming a part thereof.

My invention relates to lamp-flue holders; and my object is to provide a simple and inexpensive device of this character, which may be adjusted to fit lamp flues or chimneys of different sizes.

A further object of the invention is to provide a device of this character which may be easily and quickly placed in or removed from position relative to the lamp-flue, and which will positively and reliably hold the same from accidental displacement.

With these objects in view the invention consists in certain novel and peculiar features of construction and combinations of parts, as will be hereinafter described and claimed.

In order that the invention may be fully understood, I will proceed to describe it with reference to the accompanying drawings, in which—

Figure 1 shows in side elevation a flue or chimney secured in position upon a lamp by a holder constructed in accordance with my invention. Fig. 2 represents, on an enlarged scale, a perspective view of the holder detached from the flue or chimney. Fig. 3 represents a plan view of the holder detached from the flue, and shows it also, in dotted lines, adjusted to engage a flue of greater diameter than that illustrated in the drawings.

In the said drawings, 1 designates a lamp, which is provided with the usual flue 2, of the form shown or of any other suitable or preferred upwardly-tapering configuration. 3 designates a holder, which consists of the circular ring 4, and the pendent hooks 5. The ring 4 consists simply of a piece of spring-wire, bent to circular form, and in such manner that its ends overlap for a considerable distance. These ends are formed with eyes 6, which embrace loosely the body portion of the wire, so that by slipping said eyes toward or from each other the circle formed by the wire may be diametrically diminished or enlarged to fit globes of different sizes. Said overlapping portions of wire are preferably twisted one or more times around each other, as shown at 7, so as to stiffen and form a more substantial holder, but principally so that said portions shall frictionally engage each other, that said circular body portion may not be accidentally enlarged or diminished, but will yield easily and quickly to pressure applied in the proper manner upon or against said eyes, so as to slip them in one direction or the other. The hooks 5 are inwardly disposed and are formed at a suitable point in their length with the spring-coils 8, which will permit the said hooks to be slightly lengthened, as hereinafter to be explained. Said hooks at their outer ends are formed with eyes 9, which embrace loosely or slidingly the overlapping portions of the circular body portion, as shown most clearly in Fig. 2.

After a flue is placed in position upon a lamp and the circular body portion of the holder adjusted to the proper diameter to fit said flue, said holder is slipped down over the said flue until it engages the flue at a point where its external diameter corresponds to the internal diameter of the ring of the holder. This point is supposed to be a distance above the disk portion 12 of the burner slightly greater than the length of the pendent hooks 5. Said hooks are now grasped and lengthened by expanding slightly the springs 8, as shown clearly in Fig. 1, and are engaged under the said disk portion 10 of the burner. In this position the hooks are now tightly clamped because of the tendency of the coils to contract, and the flue is also clamped firmly upon the burner, and cannot be accidentally displaced. The employment of this holder obviates the necessity of the comparatively expensive spring guide-arms with which all burners are provided, though it is to be understood that it may be used in connection with a burner provided with such arms as well as one without them.

From the above description it will be apparent that I have produced a flue-holder

which is positive and reliable in operation and is simple, durable, and inexpensive of construction.

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

1. A lamp-flue holder, comprising a ring, which is formed by bending spring-wire to circular form so that its ends shall overlap, and by providing it with eyes which embrace slidingly the body portion of said ring so that it may be diametrically enlarged or diminished, and a pair of hooks which loosely embrace the overlapping portions of said ring, and are formed also with a spring coiled at a suitable point, so that they may be extended and may contract to hold the flue securely upon the lamp, substantially as set forth.

2. The combination with a lamp and a flue thereon, of an adjustable ring externally embracing said flue, and formed by bending a spring-wire to circular form so that its ends shall overlap and shall twist around each other, and by providing it with eyes which embrace slidingly the body portion of said ring, and pendent hooks engaging the burner, which are extensible and contractible, and are loosely and slidingly mounted upon said overlapping portions of said ring, substantially as set forth.

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

CHARLES P. JOHNSON.

Witnesses:
T. C. WILLIAMS,
JOSEPH WELSH.