(No Model.)

B. G. KRAPF.

SHADE HOLDER FOR LAMPS.

No. 404,203. Patented May 28, 1889.

Fig. 1.

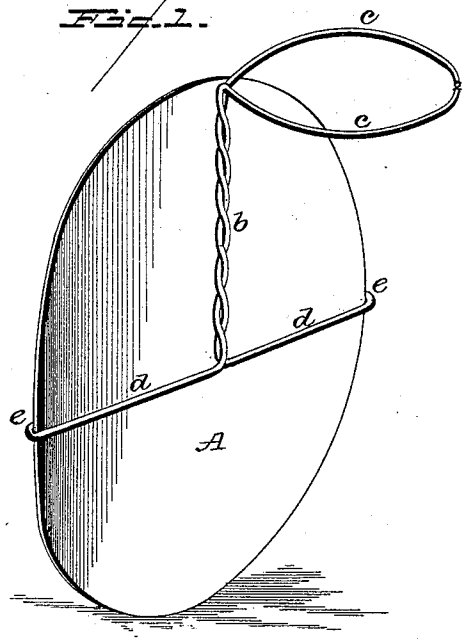


Fig. 3.

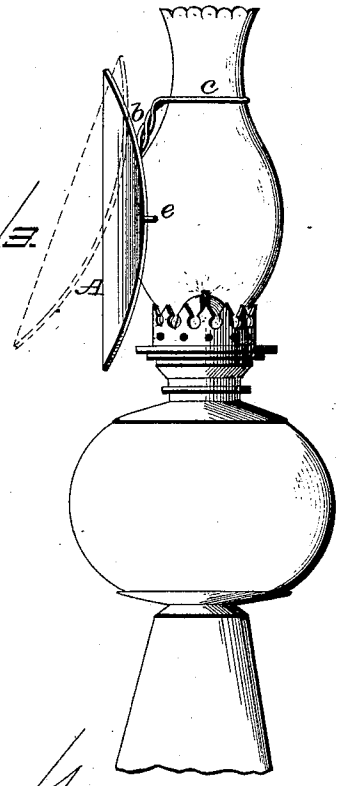


Fig. 2.

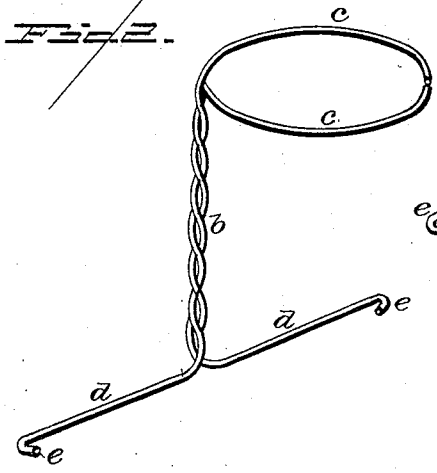
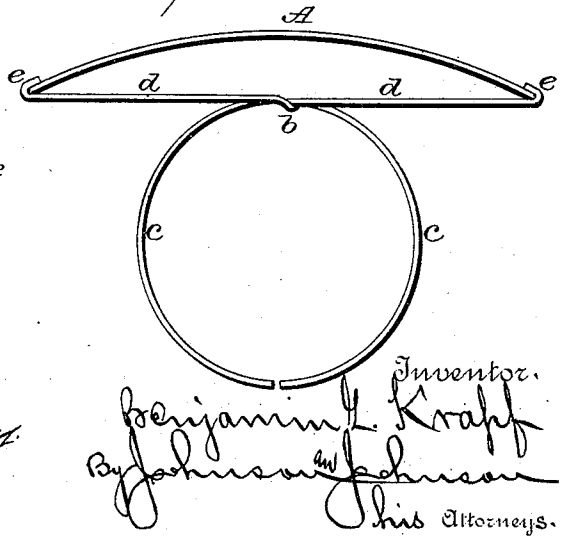


Fig. 4.



Witnesses.

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Howell Battle.

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UNITED STATES PATENT OFFICE.

BENJAMIN G. KRAPF, OF LEAVENWORTH, KANSAS.

SHADE-HOLDER FOR LAMPS.

SPECIFICATION forming part of Letters Patent No. 404,203, dated May 28, 1889.

Application filed October 15, 1888. Serial No. 288,157. (No model.)

To all whom it may concern:

Be it known that I, BENJAMIN GOTTLIEB KRAPF, a citizen of the United States, residing at Leavenworth, in the county of Leavenworth and State of Kansas, have invented a new and useful Improvement in Shade-Holders for Lamps, of which the following is a specification.

My improvement is a shade or screen holder for lamp-chimneys made of wire twisted or united together, and forming at one end of said twisted part two curved arms standing at right angles to the twisted part, to form a loop to hang the holder upon the chimney, while at the other end of said twisted part the strands form grasping-hook arms for the shade, which is sprung into said hooks, so that the shade may be raised or lowered in the hooks or tilted upon the hooks to set its lower end toward or from the chimney, as may be required, to protect the eyes from the glare of the light. In this construction the shade is bent or flexed to form a spring to hold in the grasping-hooks.

Referring to the accompanying drawings, Figure 1 represents my improved shade-holding device as applied to a spring-forming paper shade. Fig. 2 is the wire shade-holder. Fig. 3 shows the application of the shade and its holding device to the chimney, and Fig. 4 is a top view of the same.

The shade A may be of any suitable flexible material, preferably paper or tin, because it can be cheaply formed and ornamented and easily bent or flexed to give it spring, whereby it is sprung into the hooks, for it will be understood that the shade itself forms the means of securing it to the holder.

The holder is preferably formed of two pieces of wire of equal length twisted or united together at about mid-length, *b*, from one end whereof the strands form covered arms *c*, standing out at right angles and to one side of the twisted part to form the supporting-loop upon the chimney or gas-burner. At the other end of the twisted part the strands stand out at equal length at right angles in straight lines, so as to form the inverted letter T, each strand *d* terminating in a hook, *e*, turned in a direction opposite to that in which the curved hanger-loop stands, so as to grasp the edges of the shade when flexed and sprung into them and hold it secure by the spring function of the flexed shade, which is bent into curved form to give it such spring function. For this purpose the shade must be of greater width than the distance between the grasping-hooks, so as to spring the shade into and between the latter.

The shade can be set higher or lower in the hooks, and its lower end can be tilted nearer to or farther from the chimney or burner, as occasion may require, to shield the eyes from the light. When used upon a gas-burner, its curved looped end is adapted to be secured to the burner at its connection with the bracket. In tilting the shade toward or from the light the grasping-hooks serve as pivots, and the force of the spring of the shade binds the latter in between the hooks and holds it to the adjustment. The holder may be made of a single piece of wire.

Various forms of wire shade-holders for lamps and gas-burners have been proposed, and such a holder of twisted wire has been formed with a loop at one end and at the other end with arms terminating in pivots, upon which a rigid plate-reflector is hung; but the novel feature of my improvement is directed to a construction of such holder whereby a shade of flexible spring material may be sprung between arms which terminate in return-hook laps, to hold the shade and obtain the advantages stated.

I claim as my improvement—

A lamp-shade holder consisting of the wire twisted and formed at one end into a hanger-loop, the other end of the twisted part formed with the straight arms *d*, terminating in hooks bent over in return-laps *e*, in combination with a shade or screen of flexible spring material sprung into said return-hook laps, as shown and described.

In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.

BENJAMIN G. KRAPF.

Witnesses:

W. D. KELLY,

F. G. WINNEK.