

(No Model.)

A. HOENINGHAUSEN & C. R. MUELLER, Jr.
LAMP ATTACHMENT.

No. 487,482.

Patented Dec. 6, 1892.

Fig. 1.

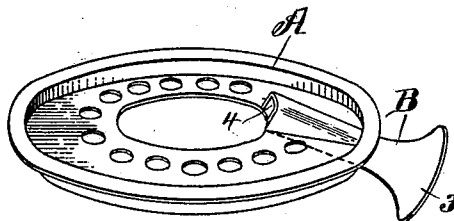
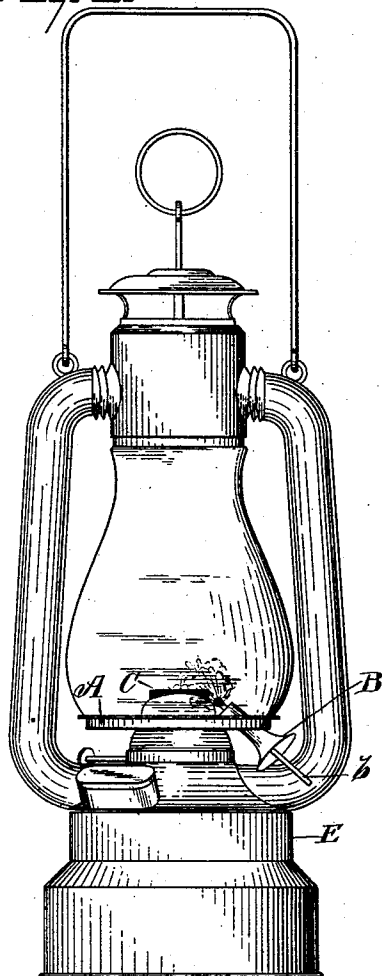


Fig. 2.

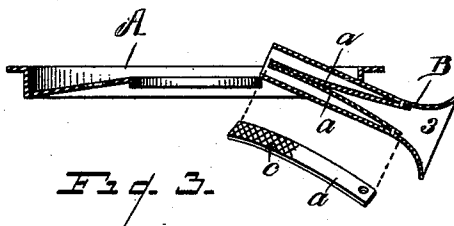


Fig. 3.

Attest.

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ADOLPH HOENINGHAUSEN AND CHARLES R. MUELLER, JR., OF DETROIT,
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LAMP ATTACHMENT.

SPECIFICATION forming part of Letters Patent No. 487,482, dated December 6, 1892.

Application filed July 20, 1891. Serial No. 400,071. (No model.)

To all whom it may concern:

Be it known that we, ADOLPH HOENINGHAUSEN and CHARLES R. MUELLER, JR., citizens of the United States, residing at Detroit, in the county of Wayne and State of Michigan, have invented certain new and useful Improvements in Lamp Attachments; and we do 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, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

This invention relates to an improved lighting attachment for lanterns and lamps, especially designed to be employed on lanterns used by firemen and railway employes; and it consists in a certain construction and arrangement of parts, as hereinafter fully set forth, the essential features of which being pointed out particularly in the claim.

The object of the invention is to provide means whereby a lantern or lamp may be readily lighted in the wind, rain, or in a wet place. This object is attained by the construction illustrated in the accompanying drawings, in which—

Figure 1 is a side elevation of a lantern provided with our improved attachment. Fig. 2 is a perspective view of the base-ring or gallery of the burner, that supports the globe or chimney, showing the match-lighting device secured therein. Fig. 3 is a central transverse section through Fig. 2, showing also in perspective one of the serrated spring-tongues removed from the igniting-tube.

Referring to the letters and figures of reference, A designates the base-ring or gallery of the burner, upon which the globe or chimney rests and through which the inclined tube B passes and is secured therein. The outer end of said tube is flaring or bell-shaped, and the inner end thereof communicates or registers with the wick of the burner and is rectangular in cross-section, as shown in Fig. 2.

Located in the tube B are the spring-tongues a, the outer ends of which are se-

cured to the opposite inner walls of said tube near its outer end. The inner or free ends of said tongues converge and their adjacent or meeting faces are serrated, as shown at c in Fig. 3, the tension of said spring being sufficient to hold their serrated faces forcibly together and their width being sufficient to closely fill the diameter of the tube B, whereby when a match b is inserted in said tube the free ends of the springs a separate, permitting the head of the match to pass between the serrated faces thereof, the friction of which ignites the match, and, the inner end of said tube communicating with the wick C, the burning end of the match is brought in contact with said wick, lighting the lantern or lamp, as clearly shown in Fig. 1. As the match is withdrawn from the tube B the pressure of the springs a thereon extinguishes it, obviating the danger of fire from a burning match carelessly thrown down. The inner end of said tube B, extending into the globe or chimney of the lantern, is protected from the wind, thereby enabling the lantern to be lighted in a gale as readily as in a closed room. The springs a cross the chamber of the tube B and when pressing each other close the passage therethrough, thus preventing the light from being extinguished by air passing through said tube.

Having thus fully set forth our invention, what we claim as new, and desire to secure by Letters Patent, is—

The combination, with the burner, of the gallery mounted thereon, the tube passing through the gallery, and the set of converging serrated springs of such width as to fill the diameter of the tube and attached to opposite walls thereof, the inner serrated ends of said springs meeting in the center of the tube and normally closing the aperture there-through, substantially as set forth.

In testimony whereof we affix our signatures in presence of two witnesses.

ADOLPH HOENINGHAUSEN.
CHARLES R. MUELLER, JR.

Witnesses:

E. S. WHEELER,
R. B. WHEELER.