

W. T. JONES.
FASTENING DEVICE FOR LAMP DOORS.
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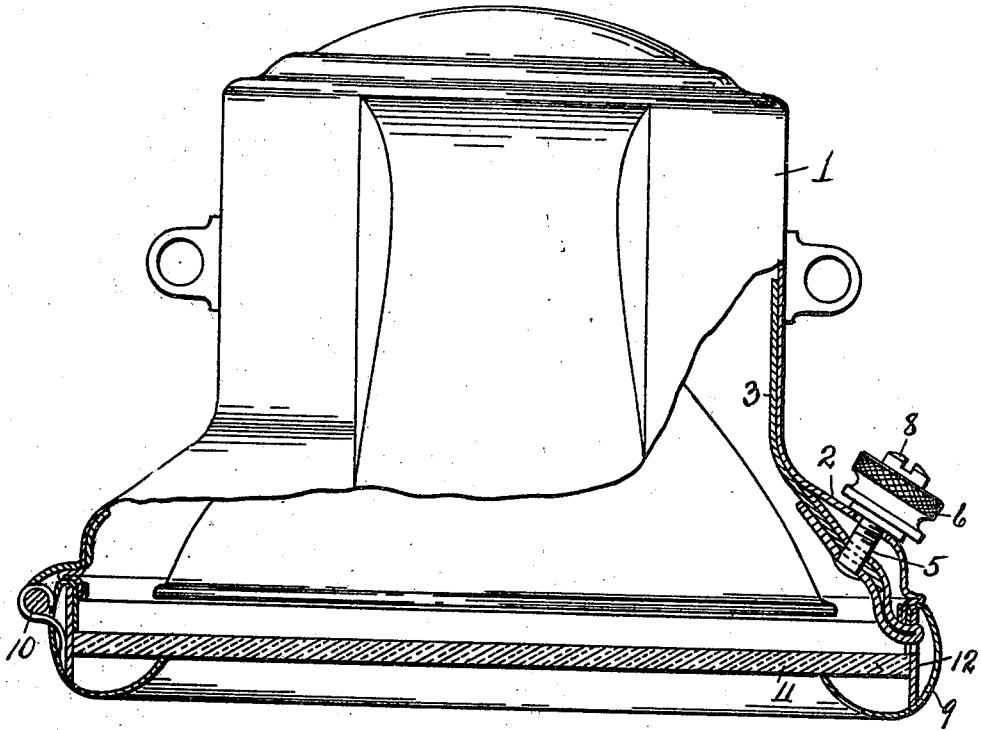
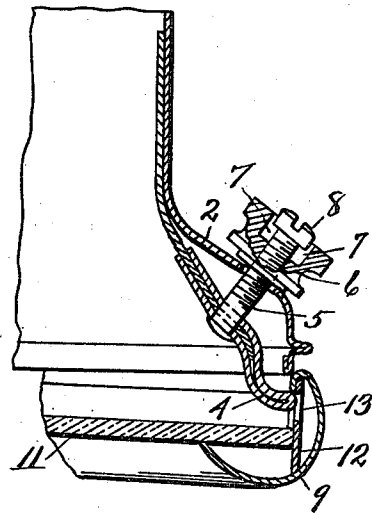
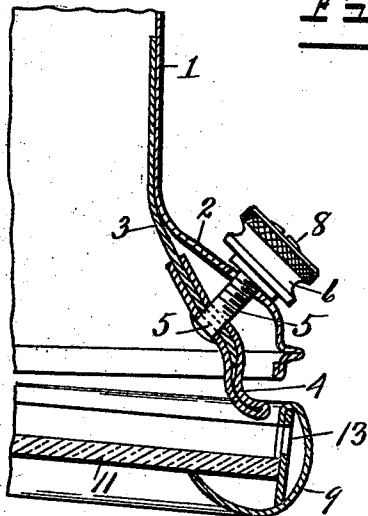


Fig. 1.



Witnesses
Fig. 2.
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Fig. 3.
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UNITED STATES PATENT OFFICE.

WILLIAM T. JONES, OF DETROIT, MICHIGAN, ASSIGNOR TO THE EDMUNDS & JONES MFG. CO., OF DETROIT, MICHIGAN, A CORPORATION OF MICHIGAN.

FASTENING DEVICE FOR LAMP-DOORS.

1,011,206.

Specification of Letters Patent.

Patented Dec. 12, 1911.

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To all whom it may concern:

Be it known that I, WILLIAM T. JONES, a citizen of the United States, residing at Detroit, in the county of Wayne, State of Michigan, have invented certain new and useful Improvements in Fastening Devices for Lamp-Doors; and I 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 characters of reference marked thereon, which form a part of this specification.

This invention relates to a fastening device for lamp doors especially designed for use upon vehicle lamps, and consists in the construction and arrangement of parts hereinafter more fully set forth and claimed.

The object of the invention is to provide simple and efficient means for fastening a lamp door closed in such manner as to enable the door to be held with tension against rattling, and wherein the arrangement is such as to enable the fastening device to be readily manipulated, either to release the door when it is desired to open it, or to fasten the door closed, provision being made for removing from the face of the door and from the front portion of the lamp body all projecting parts. The above object is attained by the structure illustrated in the accompanying drawings, in which:—

Figure 1 is a view of a lamp partly in horizontal section showing my fastening means holding the lamp door closed. Fig. 2 is a fragmentary view in section showing the position of parts when the door is released and partly swung open. Fig. 3 is a similar view showing the initial engagement of the spring fastener with the door in the operation of drawing the door to the closed position.

Referring to the characters of reference, 1 designates the shell or body of the lamp which may be of any desired shape, and which is herein shown provided with a flaring front portion 2. Secured to the inner wall of the lamp and projecting forwardly beyond the juncture of the flaring portion 2 with the main body of the lamp is a strip 3 of flexible material, preferably spring metal. The shape of the flexible

strip 3 is such that its free end stands away from the curved wall of the flaring front portion 2 of the lamp, and mounted upon the free end of said flexible strip is a hook shaped catch 4 which is of such length as to project beyond the door opening. As shown herein said catch is formed of a piece of metal folded upon itself and bent to the proper shape, the sides thereof embracing the free end of the flexible strip 3. Passing through said catch and said flexible strip and securely riveted therein is a threaded bolt 5, the outer end of which passes freely through an opening in the flaring wall 2 of the lamp body. Threaded on the projecting outer end of said bolt is a knurled nut 6 having a socket 7 therein which freely receives the enlarged head 8 of said bolt. The depth of said socket is sufficient to fully receive the head of said bolt and allow the spring catch 4, carried by the bolt, to spring inwardly such distance as to release the door when the nut is screwed outwardly on the bolt to the position shown in Fig. 2. Said head, however, arrests farther outward movement of the nut, thereby preventing the nut being removed from the bolt.

The door 9 is hinged at 10 to the front of the lamp and carries the usual glass or lens 11. Formed in the inner facing strip 12 of the door frame is an opening 13 which serves as a keeper into which the curved or hooked outer end of the catch 4 may engage, when, by the manipulation of the nut 6 the bolt 5 is drawn outwardly so as to carry said catch into said opening, and hold the door closed as shown in Fig. 1. During this operation the flexible character of the strip 3 carrying the catch will yield sufficiently to allow said catch to be drawn into the keeper of the door frame, the resistance offered by said resilient or flexible spring being sufficient to place a strain upon the bolt 5, which after the nut has been screwed onto the bolt to fasten the door closed will prevent the accidental turning of the nut on the bolt and obviate the fastening becoming sufficiently loose to allow the door to rattle. The flexible or spring strip 3 in its normal position stands away from the wall of the flaring portion of the lamp body, whereby, when the nut 6 is unscrewed upon the bolt 5 the tension of said strip will draw the bolt inwardly and allow the catch to swing out of

the keeper or recess 13 in the door frame as shown in Fig. 2, thereby releasing the door and allowing it to swing open. After the free end of the catch 4 has been engaged in the recess or keeper 13 in the door frame, the drawing outwardly of the bolt 5 by the turning of the nut 6 will cause said catch to gradually enter said keeper and force the door to the closed position, in which position the door is tightly held by the nut 6 which exerts a strong outward strain upon the bolt 5.

It will now be apparent that by means of this fastening device a lamp door may be firmly held in the closed position against the possibility of rattling and quickly released when desired, the arrangement removing all projecting parts from the door and from the rim of the front portion of the lamp body, the nut 6 being disposed

behind the wall of the flaring portion 2 so that it is neither unsightly nor in the way.

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

A lamp door fastener, comprising a flexible member mounted on the wall of the lamp body, a catch upon the projecting free end of said member, a door frame having a keeper adapted to receive said catch, a bolt connected with said flexible member passing through the wall of the lamp, and means for actuating said bolt to draw said catch into the keeper of the door frame.

In testimony whereof, I sign this specification in the presence of two witnesses.

WILLIAM T. JONES.

Witnesses:

J. S. CRANDELL,
MARIE BROESAMLE.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."