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LIGHTING FIXTURE WITH CONVOLUTED SPRING LOUVERE
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Fig. 1

Fig. 2

Fig. 3

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This invention relates to a convoluted spring louvre for lighting fixtures.

Both recessed fixtures and lamps have finish rings or plates of circular, square or other contour at the mouth of the lamp housing or reflector. In the past, louveres have been hinged, screwed, riveted, or otherwise fastened in place to baffles the light issuing from the lamp or fixture so as to confine the illumination to an area reasonably beneath the fixture, while protecting from glare any observer outside of that area.

The present invention provides a convoluted spring louvre which can be made in one piece in a form which, under compression, will fit the opening in the lamp housing to be retained frictionally therein, the normal size and form of the louvre spring being greater than the cross section of the mouth of the housing, so as to require the spring to be compressed for insertion or removal.

Such a louvre can be inserted or removed instantly and without tools to perform every function of a conventional louvre so far as baffling is concerned and, at the same time, to present an appearance more ornamental than that of conventional louvers.

In the drawings:

Fig. 1 is a view in perspective of a lamp housing in course of being equipped with a louvre of my invention.

Fig. 2 is a plan view of the expanded louvre.

Fig. 3 is a bottom plan view of the assembled housing and the louvre.

The particular lamp housing shown constitutes no part of the present invention and is illustrated merely by way of exemplification of one of the numerous types of such housings with which the use of my spring louvre is appropriate. It will be understood that the mouth 4 of the housing may be of any form in outline, the circular form illustrated being selected for exemplification because it is so commonly used. If mouth 4 has a non-circular outline, it is well within the skill of the art to modify the form of the spring louvre 5 to fit, in the light of the teachings of this disclosure.

In accordance with the present invention, a band 6 of spring material of any desired width is convoluted in a desired manner intermediate its ends to provide a spring louvre 5 which has an over-all dimension which substantially exceeds that of the interior opening 4 of the lamp housing in which the louvre is to be used.

For a housing with a circular opening 4, I preferably provide the convoluted spring strip 6 with arcuate ends at 7 and 8 of a radius substantially conforming to that of the mouth of the lamp housing so that the terminal sections 7 and 8 may fit the lamp housing, in pressure contact therewith, as shown in Fig. 3. In the embodiment illustrated, the louvre spring is symmetrical. At corresponding ends of the arcuate terminal ends 7 and 8 thereof, the spring strap is curved back upon itself at 9, 10, leading to relatively straight sections 11, 12 connected by curves 13, 14 with straight sections 15, 16 which are somewhat longer than the straight sections 11, 12.

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