

Nov. 29, 1938.

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2,138,075

LIGHTING UNIT MOUNTING

Filed Feb. 8, 1937

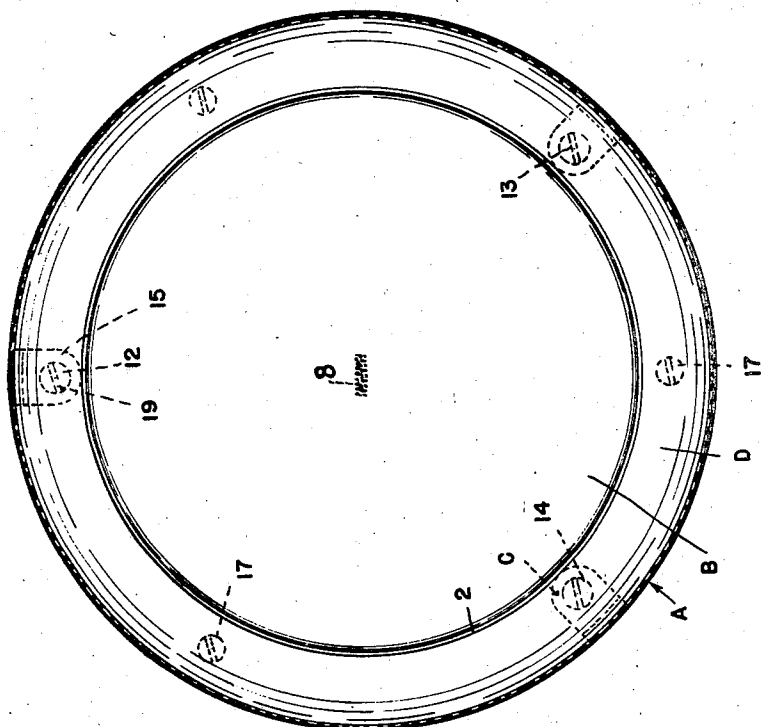
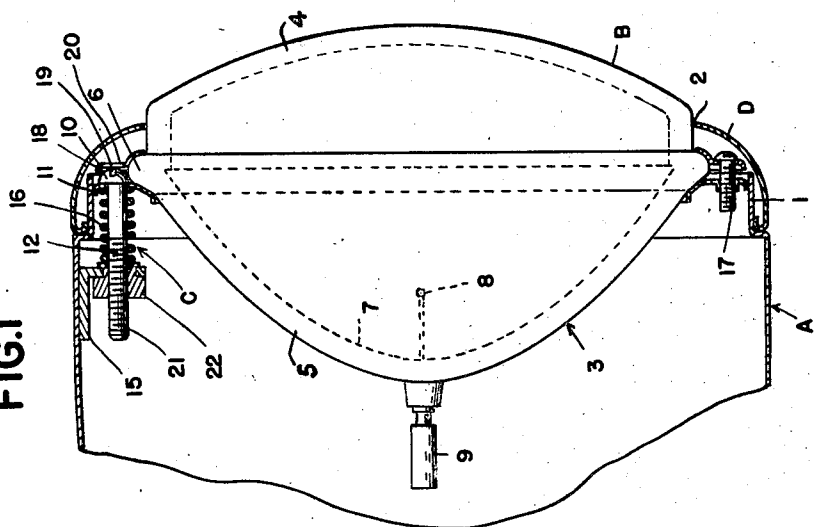


FIG. 1



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2,138,075

LIGHTING UNIT MOUNTING

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Application February 8, 1937, Serial No. 124,765

3 Claims. (Cl. 240—41.5)

This invention relates generally to lamps for motor vehicles and refers more particularly to that type designed for use as head lamps.

In the past it has been customary to form such lamps with an outer casing of the desired configuration and to mount within the casing as a sub-assembly the essential elements of the lamp such as the reflector, bulb socket and the electrical terminals or connections. The front of the lamp was either a plain glass panel or a lens which was usually secured separately to the lamp casing. However, the development of lamps has progressed to such a point that it is now desirable to use a filament instead of a bulb as the lighting element and to mount within the lamp casing as a hermetically-sealed lighting unit a reflector, filament, lens and electrical terminals or connections. Thus, it has been necessary to redesign the mountings for such elements.

In view of the foregoing, it is an object of the present invention to provide the hermetically-sealed units with mountings that permit the units to be adjusted so that the beams of light projected therefrom may be properly directed.

Other objects, advantages and novel details of construction of this invention will be made more apparent as this description proceeds, especially when considered in connection with the accompanying drawing, wherein:

Figure 1 is a fragmentary vertical sectional view through a lamp structure embodying our invention;

Figure 2 is a front elevation thereof.

Referring now to the drawing, A is the lamp casing, B is the hermetically-sealed unit, and C is the mounting embodying our invention for said unit.

In the present instance, the casing A may have any desired contour and may be mounted in any suitable manner upon the motor vehicle. Preferably the casing A is open at its forward end and is provided with a door D. As shown, this door D is sleeved upon an inwardly offset annular flange 1 of the casing A and is provided with an opening 2 that receives the unit B.

The hermetically-sealed lighting unit B may be made in any suitable manner and preferably has a shell 3 of heat-resisting glass, known in the trade as Pyrex, provided with front and rear walls 4 and 5, respectively, and an annular bead 6 at the juncture of said walls. The front wall 4 comprises the lens, while the front face of the rear wall 5 has a coating of suitable material forming a reflector 7. A suitable filament 8 is carried by the rear wall 5 at the center thereof and is provided with suitable electrical terminals 9 for connection with electrical conductors (not shown).

The mounting C for the unit B preferably comprises

a pair of cooperating rings 10 and 11, respectively, adjusting screws 12, 13 and 14, supporting lugs 15 for said screws, one for each screw, and coil springs 16 sleeved upon the screws, one on each screw between the lugs 15 and the ring 11. As shown, the rings 10 and 11 embrace the bead 6 of the unit B and are connected together at spaced points thereof by suitable screws 17. Preferably the inner ring 11 constitutes the supporting member for the unit B and is adjustably mounted within the offset annular flange 1 of the casing. The adjusting screws 12, 13 and 14 are located between the spaced screws 17 and cooperate with the springs 16 to adjust the unit B relative to the casing. Preferably the heads 18 of the adjusting screws are between the rings 10 and 11 and are provided with conventional slots 19 that are accessible through openings 20 in the outer ring 10. The shanks 21 of the screws threadedly engage nuts 22 carried by the lugs 15 and the latter are rigidly secured to the casing A. Thus, by adjusting the screw 12, the beam of light projected from the unit B may be raised and lowered in a vertical plane; by adjusting the screw 13, the beam of light may be tilted to the left; and by adjusting the screw 14, the beam of light may be tilted to the right.

What we claim as our invention is:

1. A lamp having a casing provided with an opening, a light unit for projecting light rays through said opening, and an adjustable connection between said unit and the side walls of said casing, including lugs fixed to said side walls, cooperating clamping rings gripping said unit, nuts fixed to said lugs, and screws threadedly engaging said nuts and having their heads between and accessible through one of said clamping rings.

2. A lamp having a casing provided with an opening, a light unit for projecting light rays through said opening, and a connection between said unit and casing including a lug fixed to said casing, cooperating members gripping said unit, a nut fixed to said lug, and a screw threadedly engaging said nut and having its head between and accessible through one of said gripping members.

3. A lamp having a casing, a light unit within said casing, and a mounting for said unit including a part fixed to said casing, cooperating members clamping said unit, said members having aligned holes therein, and a connection between said unit and casing including means adjustable in said part and engaging the hole in one of said members, said means being accessible for adjustment purposes through the hole in the other of said members.

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