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FOG FILTER FOR HEADLIGHTS

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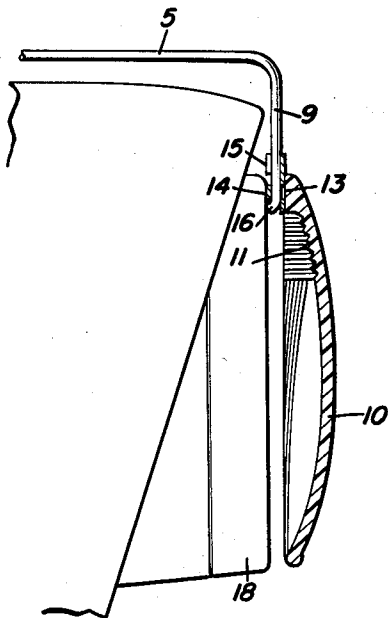
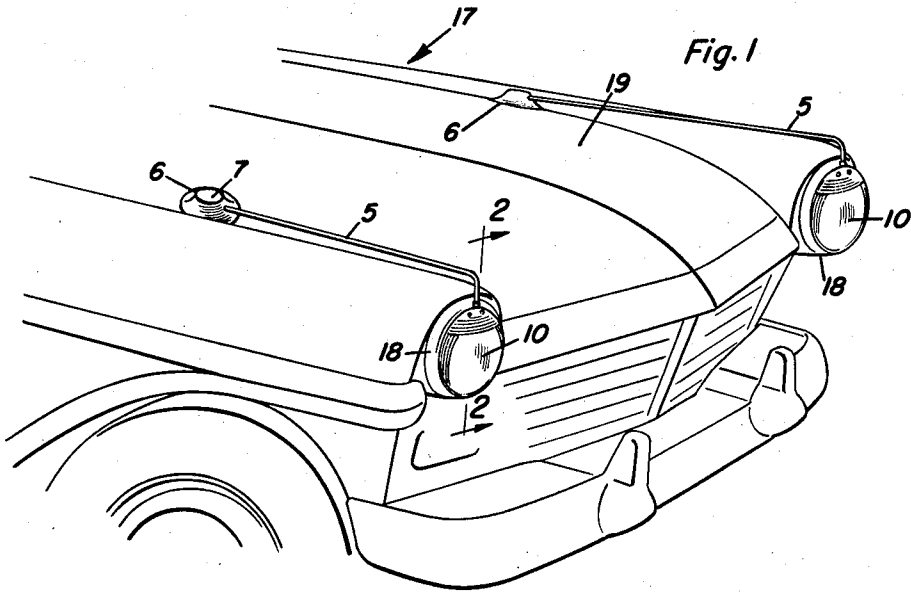


Fig. 2

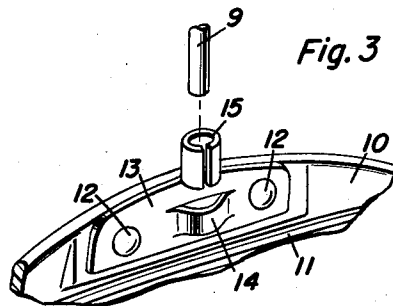


Fig. 3

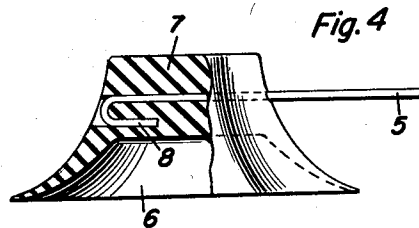


Fig. 4

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FOG FILTER FOR HEADLIGHTS

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2 Claims. (Cl. 240—46.59)

The present invention relates to new and useful improvements in fog filters for motor vehicle headlights and has for its primary object to provide, in a manner as hereinafter set forth, a device of this character comprising novel means for firmly but removably securing said device in position for use on the vehicle.

Another important object of the invention is to provide a filter of the aforementioned character which will eliminate or substantially reduce road glare in rainy weather.

Other objects of the invention are to provide a fog filter and road glare eliminator which will be comparatively simple in construction, strong, durable, compact, of light weight, attractive in appearance and which may be manufactured at low cost.

These together with other objects and advantages which will become subsequently apparent reside in the details of construction and operation as more fully hereinafter described and claimed, reference being had to the accompanying drawings forming a part hereof, wherein like numerals refer to like parts throughout, and in which:

Figure 1 is a perspective view, showing a pair of filters embodying the present invention in use on a motor vehicle;

Figure 2 is a vertical sectional view through the device, taken substantially on the line 2—2 of Figure 1;

Figure 3 is a perspective view showing, with the parts separated, the means for mounting the lens on the supporting rod or arm; and

Figure 4 is a view principally in vertical section through the rear end portion of the device.

Referring now to the drawing in detail, it will be seen that the embodiment of the invention which has been illustrated comprises an arm or rod 5 of suitable material, preferably extruded aluminum. Fixed on the rear end portion of the arm 5 is a suction cup 6 of a substantial size. In the embodiment shown, the arm 5 passes through the top portion 7 of the suction cup 6 and terminates in a reversely bent rear end portion 8 which is embedded in said cup for firmly anchoring the arm therein and preventing rotation of said arm.

The arm 5 terminates in a downturned forward end portion 9 having suspended therefrom a substantially concavo-convex lens 10 of a suitable rigid, die-molded amber plastic. The upper back portion of the lens 10 is transversely ribbed or grooved, as at 11.

Rigidly secured at 12 on the upper marginal portion of the back of the lens 10 is a plate 13 having struck therefrom at an intermediate point a loop 14. Fixed on the upper edge of the plate 13 and rising therefrom is a split sleeve 15. The depending portion 9 of the arm 5 is inserted through the sleeve 15 and the loop 14

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and the lower extremity thereof is clinched, as at 16, for anchoring the lens 10 to said arm.

It is thought that the use of the device will be readily apparent from a consideration of the foregoing. Of course, two of the filters are mounted on the vehicle, as indicated at 17, one for each of the headlights 18. In the mounting shown, the suction cup 6 is secured on the hood 19 of the vehicle 7 at a point well to the rear of the respective headlight 18. The construction and arrangement is such that the lens 10 is firmly supported closely adjacent to but independently of the headlight 18.

The substantially concavo-convex lens 10 conforms substantially to the shape of the headlight lens in front of which it is supported. The amber lens 10 filters the light beams from the headlight 18 in an obvious manner. The device also materially reduces road glare in rainy weather thus further promoting safety and comfort. The rubber suction cups 6, being remote from the headlights 18, are not subjected to the heat generated by said headlights. This constitutes an important and highly desirable feature of the invention.

The foregoing is considered as illustrative only of the principles of the invention. Further, since numerous modifications and changes will readily occur to those skilled in the art, it is not desired to limit the invention to the exact construction and operation shown and described, and accordingly all suitable modifications and equivalents may be resorted to, falling within the scope of the invention as claimed.

What is claimed as new is as follows:

1. A filter for motor vehicle headlights comprising: a substantially concavo-convex lens, a plate mounted on the upper portion of said lens, a loop struck from said plate, a split tubular sleeve rising from the plate and vertically aligned with the loop, a substantially horizontal arm including a downturned end portion anchored in the sleeve and in the loop for suspending the lens from said arm, and a suction cup on the other end portion of the arm engageable with the vehicle at a point remote from the headlight for mounting said arm on said vehicle.

2. A filter for motor vehicle headlights, comprising a substantially horizontal support arm, a hook-shaped portion provided at one end of said arm, a suction cup having said hook-shaped portion embedded therein and having its suction edge disposed in a plane parallel with and spaced downwardly from said arm, a downturned extension provided integrally at the other end of said arm, a headlight covering lens, a mounting plate secured to the upper portion of said lens, a loop struck from said plate, and a split tubular sleeve rising from the plate in vertical alignment with said loop, said downturned extension of said arm being anchored in said sleeve and in said loop, whereby said lens may be supported in front of a headlight by attachment of said suction cup to the front end portion of a vehicle body.

References Cited in the file of this patent

UNITED STATES PATENTS

725,678	Cullum	Apr. 21, 1903
1,276,924	Hunt	Aug. 27, 1918
2,177,217	Howard et al.	Oct. 24, 1939
2,530,685	Davis et al.	Nov. 21, 1950
2,673,926	Siringo	Mar. 30, 1954