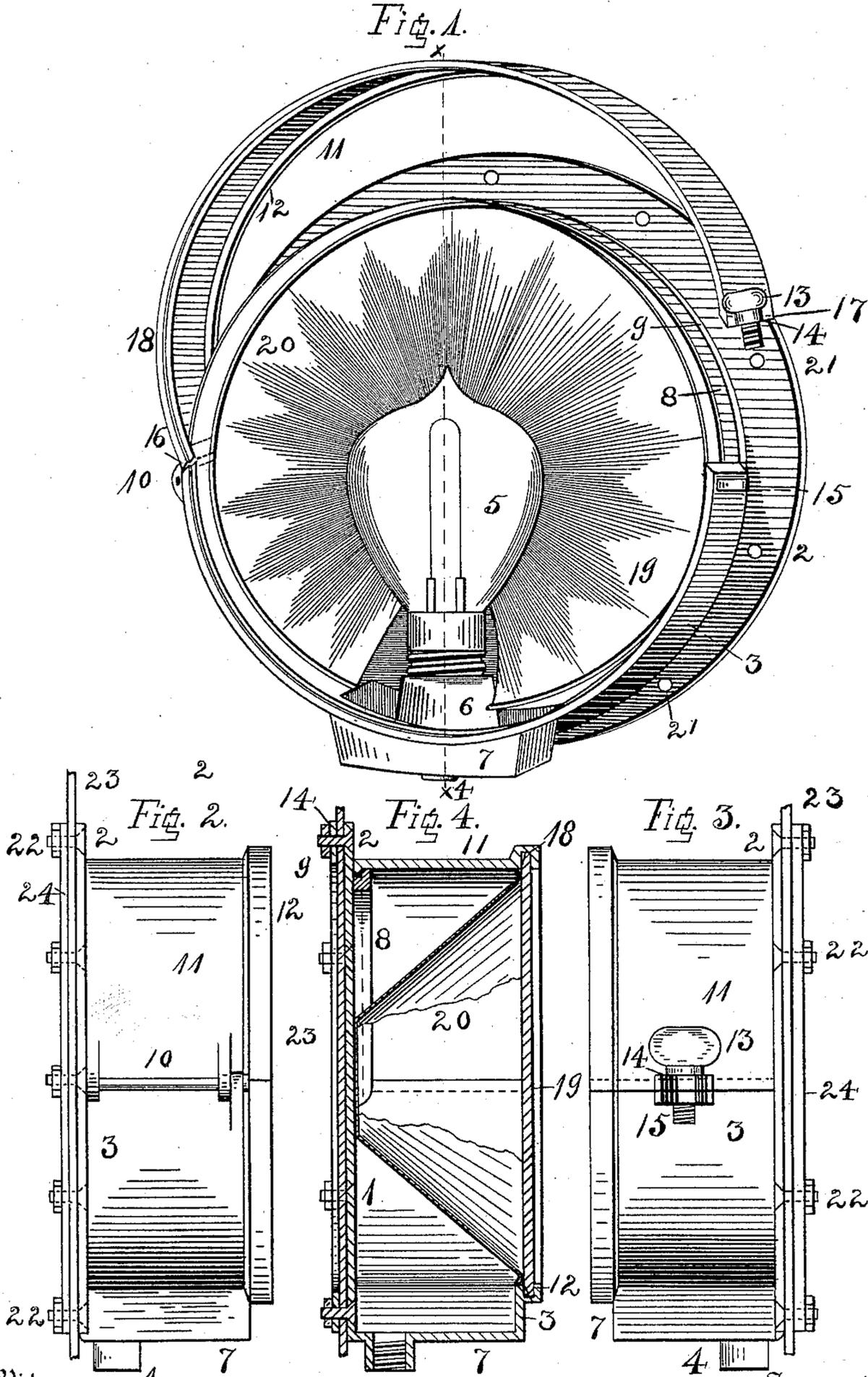


(No Model.)

F. W. DRESSEL.
ELECTRIC HEADLIGHT.

No. 584,496.

Patented June 15, 1897.



Witnesses
Louis Berger.
Louise Gilmore.

F. W. Dressel Inventor
By his Attorney
A. M. Pierce.

UNITED STATES PATENT OFFICE.

FREDERICK W. DRESSEL, OF NEW YORK, N. Y.

ELECTRIC HEADLIGHT.

SPECIFICATION forming part of Letters Patent No. 584,493, dated June 15, 1897.

Application filed May 12, 1896. Serial No. 591,205. (No model.)

To all whom it may concern:

Be it known that I, FREDERICK W. DRESSEL, a citizen of the United States, residing in the city, county, and State of New York, have invented a new and useful Improvement in Electric Headlights, of which the following is a specification.

My invention relates especially to devices employed upon cars propelled by electricity, and has for its object the provision of a neat, simple, and compact headlight which may be used at the front of the dashboard without cutting a hole in the same, projecting but slightly, and which may be as readily used upon the top of car or in any other desired situation. The construction of the headlight is of such a character as to permit the ready removal or change of the interior parts, while at the same time the case closes in such a manner as to effectually prevent the admission of water, &c.

To attain the desired end, my invention consists in certain novel and useful combinations or arrangements of parts and peculiarities of construction and operation, all of which will be hereinafter first fully described, and then pointed out in the claims.

In the accompanying drawings, forming a part hereof, Figure 1 is a perspective view of my improved headlight, showing the upper portion as slightly raised from its seat. Fig. 2 is a side elevation of the headlight, with the parts secured in position, looking from the left; and Fig. 3 is a like view looking from the right. Fig. 4 is a vertical sectional view at line $x x$ of Fig. 1.

Like numerals of reference wherever they occur indicate corresponding parts in all the figures.

The body of the headlight is preferably made of cast metal, the entire back 1, flange 2, and one-half 3 of the rim being formed in one piece.

4 is a screw-threaded thimble at the bottom of the body for the reception of the conducting-wires to a lamp 5, the socket 6 whereof rests in an enlargement 7.

The back 1 is provided with a semicircular rib 8, and a groove 9 is formed in this rib, extending down each side of the body of the device to the fixed portion 3 of the rim. Hinged

to the portion 3 at 10 is the movable portion 11 of the rim, having at its rear a lip 12, arranged to enter the groove 9 when the parts are all in place.

13 is a thumb-screw or the equivalent passing through an eye 14, projecting from the movable piece 11, said screw being arranged to engage with a screw-threaded eye 15, fixed to the part 3 of the rim. The edges of the portion 11 of the rim at 16 and 17 are beveled, so as to pass over corresponding edges of the part 3.

18 is an annular groove formed in the front of the two parts 3 and 11 of the rim, and 19 is a glass held in place in said groove.

20 is a reflector surrounding the lamp 5.

The flange 2 is perforated, as at 21, for the passage of bolts or screws 22, which may pass through perforations in a dashboard 23 and through a holding-ring 24.

In assembling the parts any kind or style of reflector may be used and a plain glass or lens placed in the front of the headlight, the movable portion 11 of the rim permitting the easy insertion and removal of these parts, and when said portion 11 is closed down and the thumb-screw turned home the parts are firmly locked in place, the arrangement of the fixed and movable portions of the rim carrying off any water that may strike the headlight, keeping the interior dry.

Having now fully described my invention, what I claim as new therein, and desire to secure by Letters Patent, is—

1. An electric headlight in which are comprised a body having a back and one portion of the rim formed integral, as set forth; a movable portion of the rim hinged to the fixed portion at one side, and having a holding device at the other side; a reflector, and a front plate or lens, the whole combined and arranged, substantially as shown and described.

2. In a device of the character herein specified, the combination with the back and one portion of the rim formed integral, of a semicircular grooved rib mounted upon the back, and a movable portion of the rim provided with a lip arranged to enter said groove, substantially as shown and described.

3. In a device of the character herein speci-

fied, the combination with the back and lower portion of the rim, said back being provided with a grooved, semicircular rib, of a movable portion of the rim, hinged to the fixed
5 portion at one side, provided with a securing device, at the other side, and having a lip arranged to enter the groove in the semicircular rib, substantially as shown and described.

10 4. In a device of the character herein specified, the combination with the fixed portion of the rim having a groove at its front, of a movable portion hinged thereto, provided with a groove at its front and a lip at its
15 back, the groove in the two portions being arranged to receive and hold in place a lens or plate of glass, the movable portion of the rim projecting over the edges of the fixed portion, and a grooved rib upon the back of the body

of the device, substantially as shown and de- 20 scribed.

5. An electric headlight in which are comprised a back, provided with a holding-flange, a grooved semicircular rib, a fixed semicircular rim, grooved at its front, a receptacle 25 for the socket of an electric lamp, and a perforated thimble for the passage of the conducting-wires, all of said parts being formed integral; a movable, hinged portion of the rim having a securing device at one side, a 30 groove at its front, and a lip at the rear; a reflector, and a glass plate or lens, the whole combined and arranged to operate, substantially as shown and described.

FREDERICK W. DRESSEL.

Witnesses:

A. M. PIERCE,

A. L. GILMORE.