

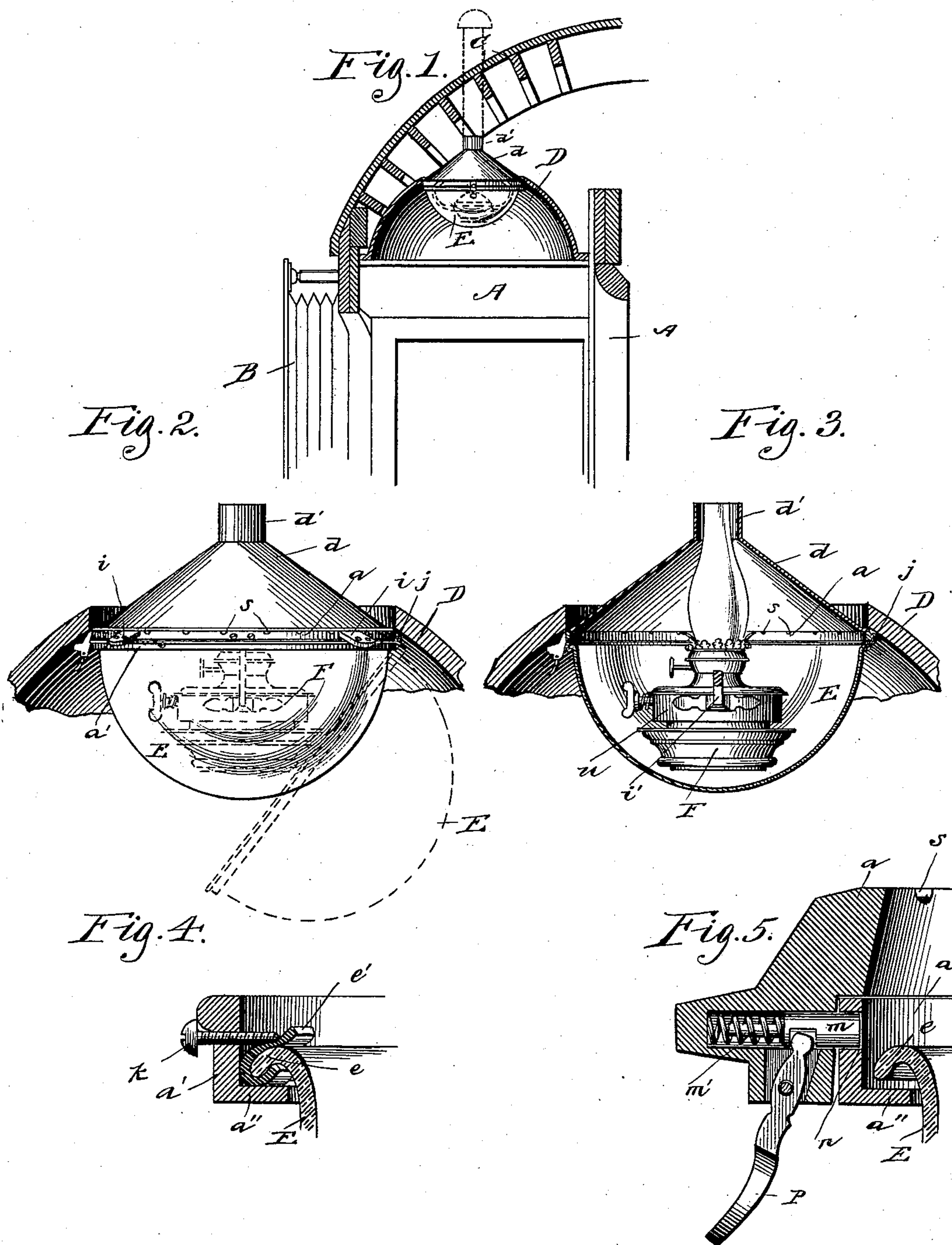
(No Model.)

2 Sheets—Sheet 1.

A. RAPP.
CAR VESTIBULE LAMP.

No. 407,611.

Patented July 23, 1889.



Witnesses,
J. J. Mann,
Frederick Goodwin.

Inventor,
August Rapp
By, Offield & Son, Attys.

(No Model.)

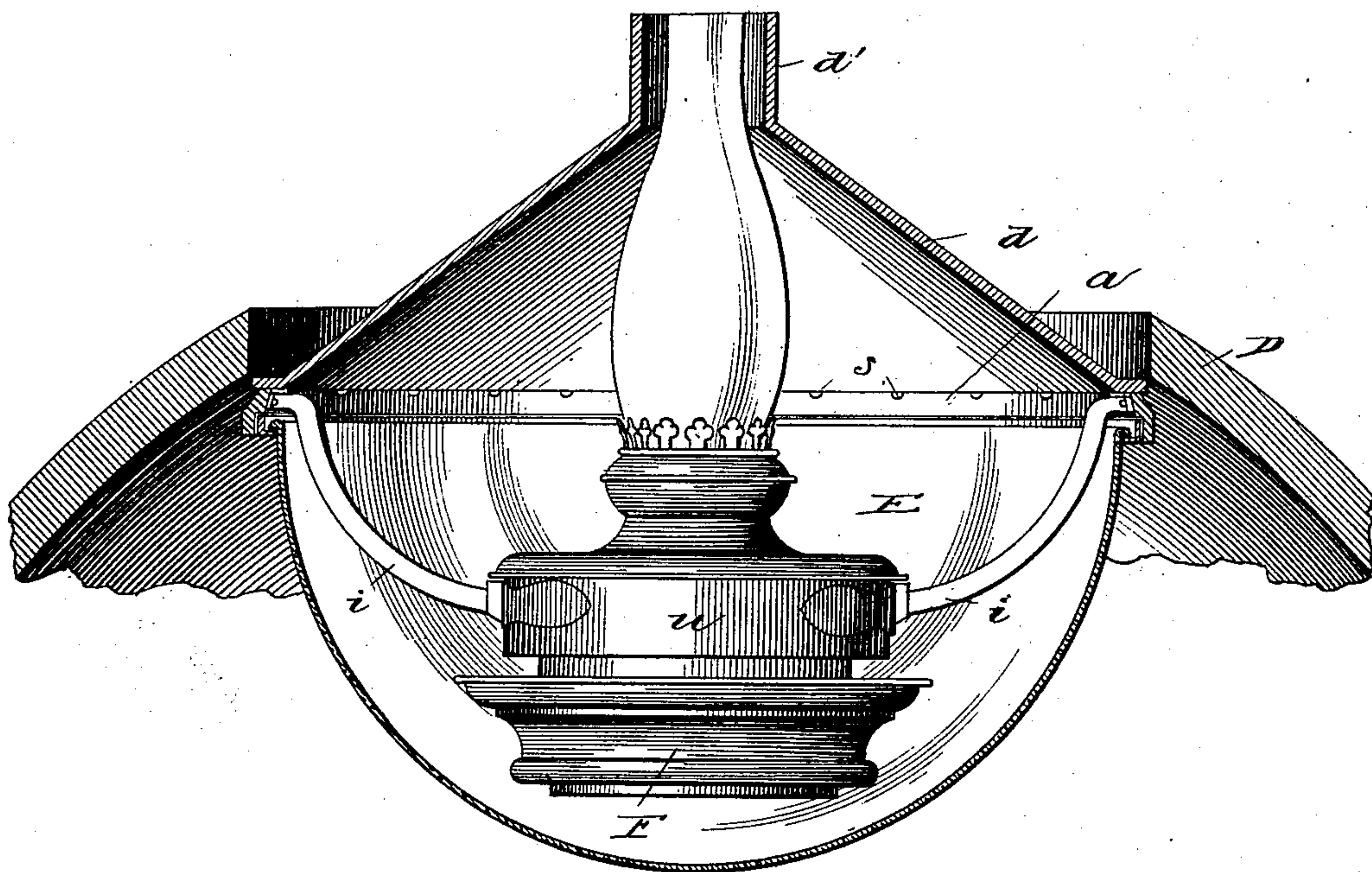
2 Sheets—Sheet 2

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Fig 3.^a



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UNITED STATES PATENT OFFICE.

AUGUST RAPP, OF PULLMAN, ASSIGNOR TO THE PULLMAN'S PALACE CAR COMPANY, OF CHICAGO, ILLINOIS.

CAR-VESTIBULE LAMP.

SPECIFICATION forming part of Letters Patent No. 407,611, dated July 23, 1889.

Application filed December 10, 1887. Serial No. 257,535. (No model.)

To all whom it may concern:

Be it known that I, AUGUST RAPP, a citizen of the United States, residing at Pullman, in the county of Cook and State of Illinois, have
5 invented a new and useful Improvement in Car-Vestibule Lamps, which I desire to protect by Letters Patent of the United States, and of which the following is a specification.

Vestibules inclosing the space between adjacent car ends of passenger-trains having become an important feature in the construction of cars, it becomes also important to provide for lighting the same, and in so doing to obviate the liability of the flame being unfavorably acted upon or extinguished by the
15 currents of air to which lights located in such positions must necessarily be subjected in consequence of frequent opening and closing of doors while the train is in motion.

With the foregoing purpose in view I have in the present exemplification illustrated and described lamps as the light-giving mediums, which, though of themselves of well-known construction, are so protected as to insure the
25 flames against the influence of air-currents, and the lamps are at the same time convenient of access and protected against ordinary danger of breakage.

In the accompanying drawings, making a part of this specification, Figure 1 is a vertical section of a vestibule longitudinally of a car, showing a lamp and a dome in which it is secured, the latter being in vertical section. Fig. 2 shows in elevation the lamp-protection
35 appliances, including an outline of the lamp and a portion of the dome. Fig. 3 is a vertical section through Fig. 2. Fig. 3^a is a similar view, but taken at right angles to the view of same figure. Fig. 4 is a section of a globe and its rim, and Fig. 5 is a detail illustrating fastening devices.

In Fig. 1, the part A represents a permanent or fixed side of a vestibule, and B a flexible portion of a vestibule designed, in connection with like provision on an adjacent car, to inclose the space between roof and platform
45 ends.

C represents timbers of a roof-extension. As an appropriate supporting structure for
50 the lamps and parts appertaining thereto, I

provide a dome or canopy D, of hollow hemispherical shape. This I preferably make in horizontal dimensions nearly equal to the area of the vestibule-extension and supported upon the timbers of the car front and vestibule, as
55 indicated in Fig. 1. At the summit of the dome an aperture is provided suited to the application of the lamp and its immediate supports, as apparent in Figs. 2 and 3. The part which serves as the direct support of the
60 lamp, and also of the parts covering and protecting it, consists of a metallic rim *a*, corresponding in diameter to the aperture in dome D. This rim is secured to the dome by the means of flanges *i*, adapted to be secured by
65 screws to the under surface of said dome. The lamp F is secured to rim *a* by bracket-arms *i'* on the interior and pendent from said rim. The arms are connected with a ring *u*, in which latter the lamp is seated. Resting
70 upon rim *a* is a shade or cap *d*, having a neck portion *d'*, adapted to be inserted in a flue in the roof. Beneath rim *a* is a second rim *a'*, which is hinged to the upper rim at *j*, and is provided with catch devices, as illustrated in
75 enlarged detail, Fig. 5. In this figure a recess *n* is shown in rim *a'*, with which a bolt *m*, backed by a spring *m'*, engages. A thumb-lever P serves in retracting the bolt, the latter and parts actuating it being supported in
80 an enlargement of rim *a*. To rim *a'* is secured a hemispherical transparent globe E, adapted to completely inclose the lamp beneath the rim. Rim *a'* is provided with an inward flange *a''*. To adapt the globe for connection with the
85 rim, it has formed at the top a flange *e*, suited to rest upon flange *a''* of the rim.

To obviate the liability to breakage that exists by a solid or unprotected connection of the globe with the rim, strips *e'*, of rubber or
90 other yielding material, are inserted between the flanges of the two parts. Screws *k*, inserted through the rim *a'*, are made to engage the flange of the globe with the strips intervening, whereby the said globe is firmly se-
95 cured without danger of breakage arising from direct contact of the screws therewith.

As a provision for the admission of air to support combustion, a series of notches or recesses *s* are formed on the upper surface of
100

rim *a*, by which air is admitted between cap
d and said rim. Access to the lamp is con-
veniently afforded, to gain which the bolt *m*
is disengaged and the globe allowed to drop
5 in the position shown in dotted lines, Fig. 2.

The immediate support of the lamp is, as
before stated, of well-known construction, in
which spring-catches in the supporting-ring *u*
permit the lamp to be inserted or withdrawn
10 from beneath.

Having thus fully described my said inven-
tion, what I claim, and desire to secure by
Letters Patent, is—

1. In a car-vestibule lamp, the combination,
15 with a dome located at or near the roof of the
vestibule-extension, a metallic rim attached

to said dome centrally and provided with ap-
ertures for the admission of air to support
combustion, and a supplementary rim beneath
and hinged thereto, of a transparent globe sup- 20
ported by the supplementary rim and a cap
mounted on the upper rim, substantially as
described.

2. In a car-vestibule lamp, the combination,
with rims *a* and *a'*, the latter being provided 25
with a flange *a''*, of a globe *E*, provided with
flange *e*, strips *e'*, and screws *k*, substantially
as presented.

AUGUST RAPP.

Witnesses:

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