

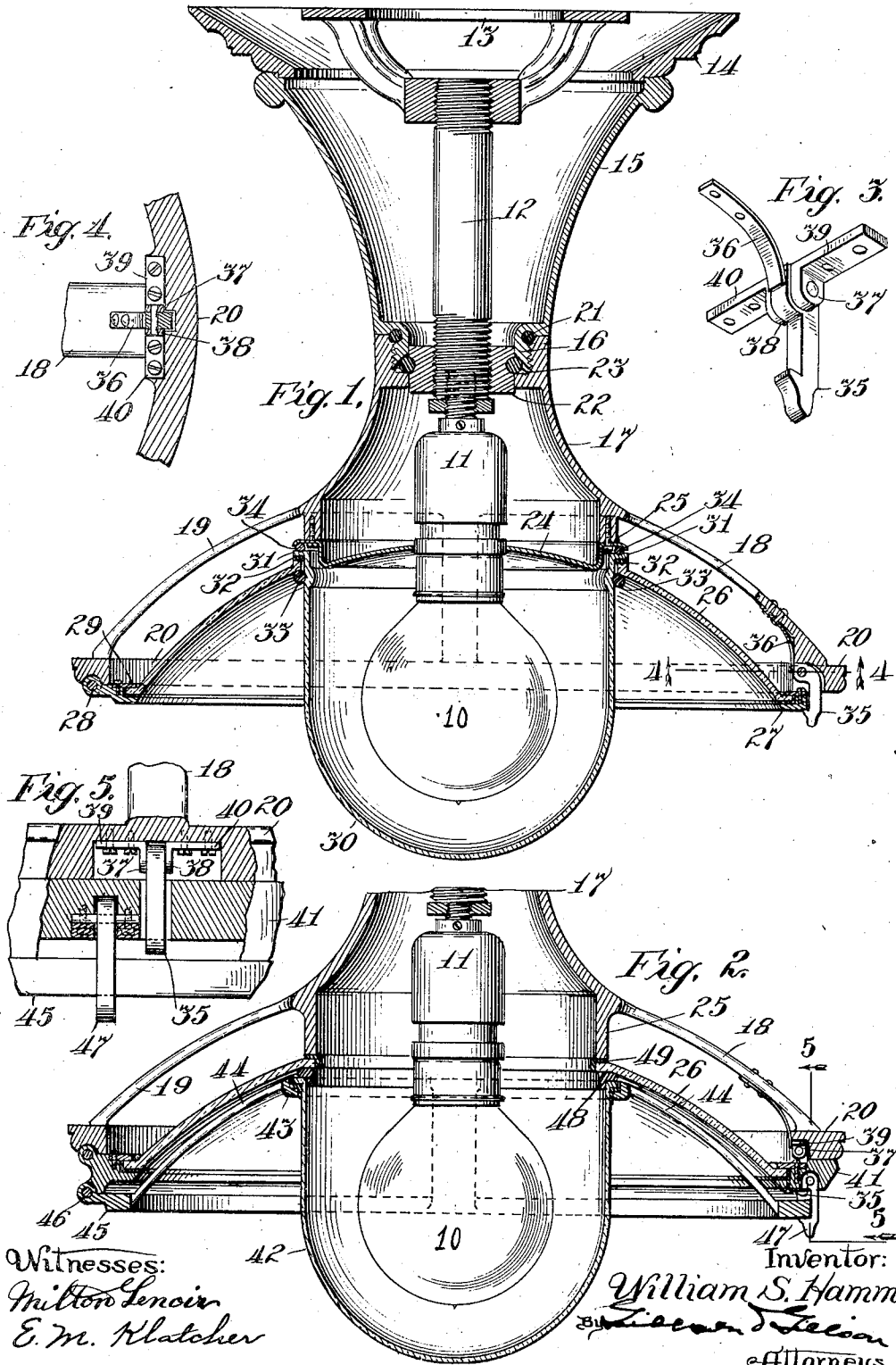
W. S. HAMM.

LAMP.

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1,093,619.

Patented Apr. 21, 1914.



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UNITED STATES PATENT OFFICE.

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LAMP.

1,093,619.

Specification of Letters Patent.

Patented Apr. 21, 1914.

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To all whom it may concern:

Be it known that I, WILLIAM S. HAMM, a citizen of the United States, and resident of Hubbard Woods, county of Cook, and State of Illinois, have invented certain new and useful Improvements in Lamps, of which the following is a specification, and which are illustrated in the accompanying drawings, forming a part thereof.

The invention relates to pendent lamps especially adapted for use in railway cars; its objects being to provide a construction by which there is secured sufficient ceiling illumination while the greater part of the light is well distributed downwardly and laterally; to provide a simple and convenient arrangement of parts whereby access to the interior of the lamp may be readily obtained while the various parts may be securely held in proper service relation; and furthermore, to provide for the exclusion of dust and dirt from the interior of the depending shade.

The lamp is illustrated in the accompanying drawings, in which—

Figure 1 is a central vertical section; Fig. 2 is a detail central vertical section showing a modified form of construction; Fig. 3 is a detail in perspective of the spring catch shown in Fig. 1; Fig. 4 is a detail section on the line 4—4 of Fig. 1; and Fig. 5 is a detail section on the line 5—5 of Fig. 2.

The lamp is especially adapted for using as an illuminant an incandescent bulb 10, there being provided a socket 11 for such bulb, of ordinary construction, which in turn may be carried by a stem 12 adapted to inclose the electric wires and which depends from a ceiling plate 13 which may be secured to a ceiling in any desired manner. These parts are inclosed within a casing, preferably sectional, which is shown as comprised of a ceiling plate 14, an upper section 15 fitting thereagainst and having at its lower end an externally threaded neck or nipple 16; and a lower section 17 in threaded engagement with the nipple 16 and which is provided at its lower end with a plurality of arms 18, 19, as many being employed as desired, which carry at their outer ends an annulus 20. A rubber gasket 21 may be introduced into the joint connecting the sections 15 and 17. A nut 22, running on the lower end of the stem 12, fits loosely within the nipple 16, and a rubber gasket 23 car-

ried thereby bears forwardly against the end of the nipple, forcing the casing upwardly against the ceiling.

An imperforate dust screen 24 is secured below the body portion of the section 17 of the casing, fitting snugly about the lower end of the socket 11. As a convenient means for attaching the screen 24 the section 17 of the casing is provided with a depending flange 25, to which the screen is secured by means of screws.

A reflector 26, which will ordinarily be made of translucent material, is carried by an annulus 27, hinged, as shown at 28, to the annulus 20; the annulus 27 being rabbeted along its inner and upper faces to provide a suitable seat for the reflector, the latter being held to the seat by means of a ring 29 secured to the annulus 27 by screws or other means. The reflector 26 is centrally apertured to receive the bulb-inclosing shade, which is provided at its upper end with an outstanding flange 31 for resting upon the reflector, a rubber gasket 32 being preferably interposed between these two members. A rubber annulus 33 is also shown as encircling the upper end of the shade and fitting snugly against the lower face of the reflector. These parts are so proportioned that when the lamp is in service the flange 31 of the shade bears against the outer margin of the screen 24, a rubber gasket 34 being preferably interposed for the purpose of more effectually excluding dust. The reflector and shade are held in service position by means of a spring catch 35, pivoted to the annulus 20 and latching upon the annulus 27, its controlling spring being shown at 36 as attached to one of the arms 18. For convenience in construction the pivot of the catch 35 may be set in depending ears 37, 38, carried by plates 39, 40, attached to the lower face of the annulus 20.

In the construction illustrated in Figs. 2 and 5, the reflector 26 is carried by an annulus 41 independently of the shade, and which is substantially identical in construction with the annulus 20. The shade 42 is seated in a rabbeted ring 43 carried by a plurality of arms 44 projecting upwardly and inwardly from an annulus 45, hinged, as shown at 46, to the annulus 41, and held in service position by means of a spring latch 47 carried by the latter annulus. A gasket

48 is interposed between the upper edge of the shade 42 and the lower face of the reflector 26. As shown in Fig. 2, the dust screen 24 may be dispensed with, a gasket 5 49 being interposed between the reflector 26 and the lower edge of the depending flange 25.

The reflector will in practice ordinarily be made of translucent material, as, for example, opal glass, and will permit the passage therethrough and between the arms 18, 19, of sufficient light to adequately illuminate the space above the lamp; and the shade will be preferably transparent, permitting the unobstructed radiation therethrough of 5 light rays, while much of the light will also be deflected downwardly by the reflector. The joints between the sections of the casing and between the shade, reflector, and lower end of the casing being sealed, dust will be 20 effectually excluded from the interior of the shade, thereby insuring free passage of the light rays.

When the screen 24 is used it will be preferably provided with a polished surface, and 25 hence will serve as a reflector for increasing the illumination below the lamp.

I claim as my invention—

1. In a lamp, in combination, a depending stem, an illuminator carried by the stem, a 30 casing inclosing the stem and having radiating downwardly-inclined arms at its lower end, a diaphanous reflector carried by and within the arms, and a diaphanous shade inclosing the illuminator and extending downwardly from the central portion of the reflector and being supported by the arms. 35

2. In a lamp, in combination, a depending stem, an illuminator carried by the stem, a casing inclosing the stem and having radiating downwardly-inclined arms at its lower 40 end, a diaphanous reflector carried by and within the arms, and a diaphanous shade inclosing the illuminator and extending downwardly from the central portion of the reflector and being supported by the arms, the 45 joints between the shade, reflector and lower end of the casing being dustproof.

3. In a lamp, in combination, a depending stem, an illuminator carried by the stem, a 50 casing inclosing the stem and having radiating downwardly-inclined arms at its lower end and united at their outer ends to form an annulus, an annulus hinged to the first-named annulus, an annular dome-shaped 55 diaphanous reflector carried by the second-named annulus, and a diaphanous shade

seated within and carried by the reflector and inclosing the illuminator.

4. In a lamp, in combination, a depending stem, an illuminator carried by the stem, a 60 casing inclosing the stem and having radiating downwardly-inclined arms at its lower end and united at their outer ends to form an annulus, an annulus hinged to the first-named annulus, an annular dome-shaped 65 diaphanous reflector carried by the second-named annulus, and a diaphanous shade seated within and carried by the reflector and inclosing the illuminator, the upper end of the shade making a closed joint with the 70 lower end of the casing.

5. In a lamp, in combination, a depending stem, an illuminator carried by the stem, a casing inclosing the stem and having radiating downwardly-inclined arms at its lower 75 end and united at their outer ends to form an annulus, an annulus hinged to the first-named annulus, an annular dome-shaped diaphanous reflector carried by the second-named annulus, a diaphanous shade seated 80 within and carried by the reflector and inclosing the illuminator, and an imperforate screen inclosing the upper end of the illuminator and closing the lower end of the casing. 85

6. In combination, a supporting member, an illuminator carried thereby, a reflector carrier hinged to the support, a reflector 90 mounted in the carrier and being apertured to surround the illuminator, and a cup-shaped shade depending from the reflector and inclosing the illuminator.

7. In combination, a frame, a support for the frame, an illuminator carried by the support, a second frame hinged to the first-named frame, an apertured reflector carried 95 by the second-named frame and covering the illuminator, and a cup-shaped shade inclosing the illuminator and depending from the reflector. 100

8. An annular frame, a support for the frame, an illuminator carried by the support, a ring hinged to the frame, an annular reflector supported by the ring and covering the illuminator, a cup-shaped shade carried 105 by the reflector and depending from the central portion thereof.

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