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LUMINAIRE

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2 Sheets-Sheet 1

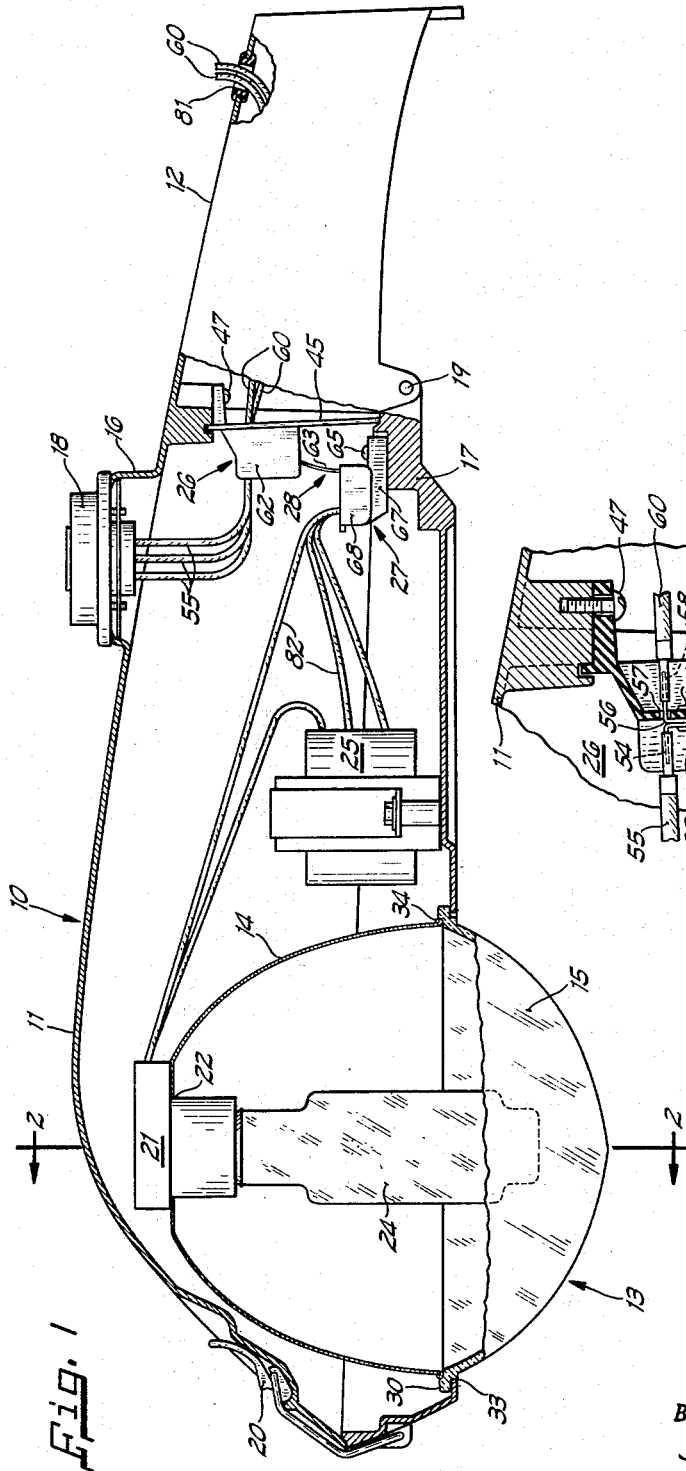


FIG. 1

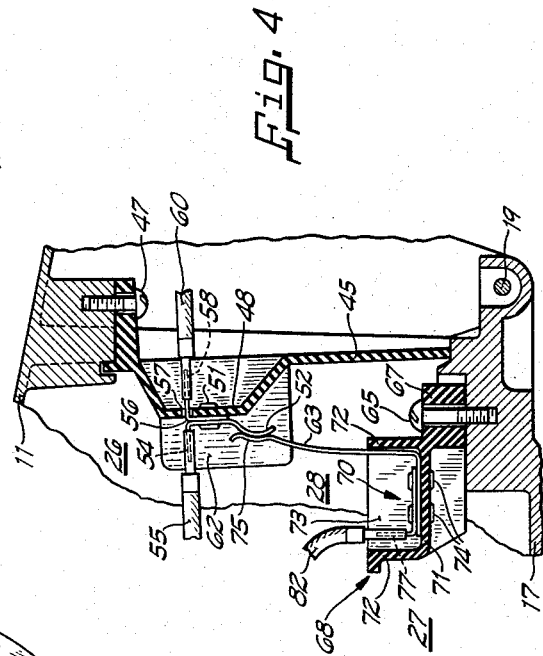


FIG. 4

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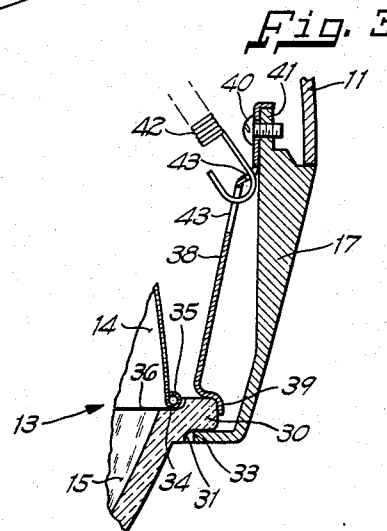
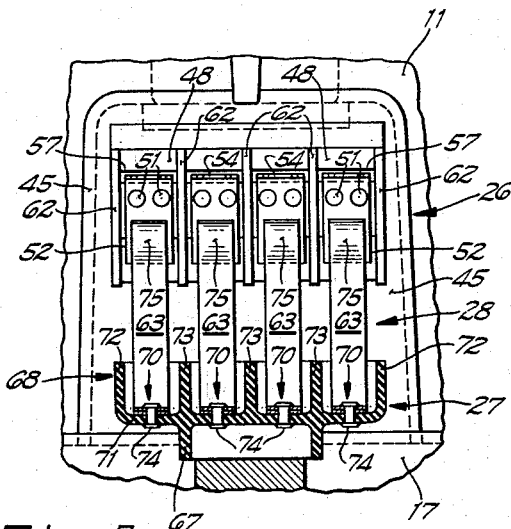
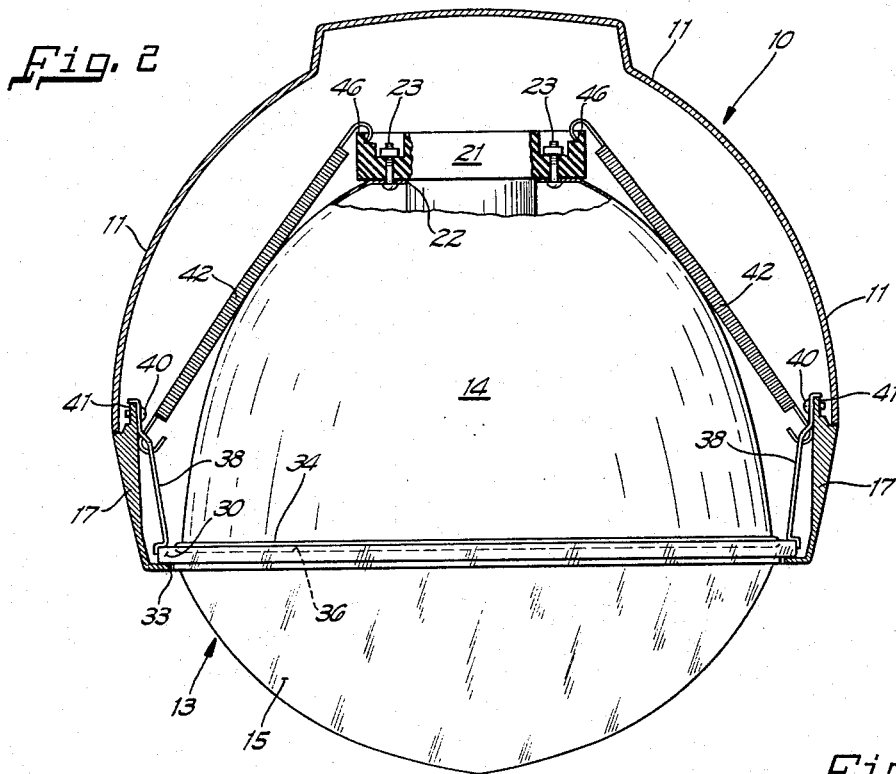
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LUMINAIRE

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2 Sheets-Sheet 2



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LUMINAIRE

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14 Claims. (Cl. 240-25)

This invention relates to luminaires and, more particularly, to a new and improved luminaire having a sealed optical assembly.

One type of luminaire employed for street or area lighting has a sealed optical assembly and an elongate housing which encloses electrical components such as ballasts and capacitors required for operating metallic vapor-type lamps. The optical assemblies of such prior art luminaires included a reflector which was mounted in the housing and a refractor mounted on a bottom closure member. When the bottom closure member was in a latched position, the peripheries of the reflector and refractor engaged to provide a sealed assembly. In order to achieve the proper mating of the reflector and refractor, it was necessary to have the reflector loosely and resiliently mounted within the housing. In addition, such prior art luminaires has a fixed lamp holder which extended through an opening in the reflector and provided a support therefor. Because of the requirement that the reflector be loosely mounted in the housing, sealing between the lamp holder and the reflector was relatively difficult.

It is an object of the invention to provide a luminaire wherein optical assembly sealing is simplified.

A still further object of the invention is to provide new and improved means for mounting a luminaire optical assembly.

Another object of the invention is to provide a luminaire having an open bottomed housing and a hinged bottom closure member wherein a reflector and refractor are releasably mounted on the bottom closure member and lamp holding means is mounted on the reflector. A still further object is to provide disconnect contact means on the bottom closure member and on the housing for de-energizing the lamp holding means when the bottom closure member is in its open position.

These and other objects and advantages of the instant invention will become more apparent from the detailed description thereof taken with the accompanying drawings in which:

FIG. 1 is a side elevational view, partly in section, of the luminaire according to the instant invention;

FIG. 2 is a view taken along lines 2-2 of FIG. 1;

FIG. 3 is a fragmentary view showing the optical assembly latching means of the luminaire illustrated in FIG. 1; and

FIGS. 4 and 5 are fragmentary views showing the disconnecting means of the luminaire shown in FIG. 1.

Referring now to the drawings in greater detail, FIG. 1 shows a mercury vapor-type luminaire 10 which includes an inverted dished housing 11 having an elongate portion 12 integrally formed on one side for enclosing means (not shown) which permits attachment of the luminaire to a vertically extending pole (not shown). An apertured support 16 is integrally formed on the upper end of the housing 12 for supporting a photocontrol device 18.

A bottom closure member 17 is provided for the housing 11 and has an upper peripheral edge coextensive with the bottom opening of said housing. The closure member 17 is supported at one end beneath the housing 12 by a hinge 19 to permit counterclockwise pivotal movement as viewed in FIG. 1. A quick release latch assembly 20 is provided at the opposite end of the closure member 17

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for securing it in its unpivoted position. The luminaire also includes an optical assembly 13 having an inverted, generally ovate reflector 14 for reflecting light rays in a generally downward direction as viewed in FIG. 1 and a cooperating bowl-shaped refractor 15 for further modifying the downwardly directed light rays according to the desired light pattern. The optical assembly 13 is mounted on the latch end of the bottom closure member 17 in a manner to be more fully described hereinbelow. A lamp holder 21 is mounted on the reflector 14 by bolts 23 and extends through an opening 22 in the upper end thereof, for supporting a lamp 24 within the optical assembly 13.

In order to de-energize the electrical components of the luminaire 10 such as the lamp 24 and the ballast 25 when the bottom closure portion 17 is open, connection to these components is made through terminal supports 26 and 27 mounted on the housing 11 and the bottom closure member 17, respectively, and disconnect contacts 28 carried by said terminal supports. Thus, when the bottom closure member 17 is open, the movable portion of disconnect contacts 28 carried by the terminal support 27 disengage corresponding fixed contacts on the terminal support 26 so that there is no risk of exposure to electrically live parts when the luminaire is being serviced.

As seen in FIGS. 1, 2 and 3, the refractor 15 is an inverted bowl-shaped member having an outwardly extending flange 30 formed circumferentially around its outer peripheral edge. A shoulder 31 formed around the lower edge of the flange 30 engages the margin of a circular opening 33 formed in the bottom closure member 17. The lower peripheral rim 34 of the reflector 14 is substantially coextensive with the flange 30 on the refractor 15 and has a rolled edge 35 for cooperatively engaging an annular groove 36 formed adjacent the inner edge of said flange.

The flange 30 of the refractor 15 is resiliently held in engagement with the margin of the opening 33 in the bottom closure member 17 by a pair of elongate flat spring members 38 which are mounted on the opposite sides of the bottom closure member 17, as seen in FIG. 2. Each of the spring members 38 is anchored at its upper end by a screw 40 which engages a lug 41 integral with and extending upwardly from the upper edge of the bottom closure member 17. The spring members 38 each extend downwardly from their respective lugs 41 and terminate at their lower ends in a curved latch tip 39 which resiliently engages the refractor flange 30.

The reflector 14 is resiliently held in engagement with the refractor 15 by means of a pair of elongate coil springs 42 which are each anchored at their lower ends to one of the flat springs 38 by engaging a pair of openings 43 formed in each of said flat springs adjacent the anchor screws 40. The upper ends of each of the springs 42 engage the opposite sides of an upper peripheral rim 46 formed in the lamp holder 21 affixed to the upper end of the reflector 14. The springs 42 resiliently urge the reflector 14 downwardly so that its lower peripheral edge 34 is held in sealing engagement with the groove 36 formed in the refractor 15.

It can thus be seen that the reflector 14 and the refractor 15 are both mounted on the lower closure portion 17 so that when the latter is unlatched and pivoted to its open position, both the reflector 14 and refractor 15 will pivot downwardly with the bottom closure member 17. As a result of the fact that the reflector rim 34 and the refractor groove 36 do not disengage when the bottom closure member 17 is opened and re-engage when it is closed, it is not necessary for the reflector 14 to be resiliently or loosely mounted within the upper housing 11. In addition, because the reflector 14 and the re-

refractor 15 remain in engagement, it is not necessary to have a large resilient gasket disposed between their peripheral edges in order to re-establish a seal when the bottom closure member 17 is closed.

When it is desired to remove the reflector 14 from the bottom closure member 17, the upper ends of the elongate coil springs 42 are unhooked from the lamp holder 21. The reflector 14 is then easily removable for cleaning or the changing of the lamp 24. Removal of the refractor 15 is accomplished by moving the lower ends of each of the springs 38 outwardly to disengage their latch tips 39 from the refractor flange 30. The refractor 15 can easily be remounted within the bottom closure member 17 by depressing it downwardly against the springs 38 which flex outwardly until the refractor flange 30 engages the adjacent margin of the opening 31 whereupon the springs 38 snap into position to reestablish holding engagement with the flange 30. It will thus be appreciated that the reflector 14 and the refractor 15 may be quickly and easily removed from the closure member 17 without the need for tools.

With reference to FIGS. 1, 4 and 5, the terminal block 26 is composed of molded insulating material and includes a generally rectangular base portion 45 secured at its upper end to the luminaire housing 11 by screws 47, and four integral molded contact pads 48 extend forwardly from the base portion 45. A pair of conductive eyelets 51 secure the stationary portion 52 of the disconnect contact 28 to the front face of the contact pad 48. The upper ends of each of the stationary disconnect contacts 52 extend forwardly and terminate in a terminal tab 54 for connection to photocontrol conductors 55. Also secured to the front face of each terminal pad 48 by the eyelet 51 and in good electrical contact with the stationary disconnect contact 52 is one leg of a generally L-shaped conductive member 56, whose other leg extends backwardly through an aperture 57 in the terminal pad 48 and terminates in a terminal tab 58 for connection to one of the power supply conductors 60.

Vertically extending insulating wall portions 62 extend forwardly from the terminal pads 48 for electrically insulating the disconnect contacts 52 and terminal tabs 54 at the front of the terminal support 26. In addition, the insulating wall portions 62 extend across the rear of the terminal pads 48 and to the base 45 so as to also electrically insulate the terminal tabs 58.

The movable portion 63 of the disconnect contacts 28 is mounted on the molded insulating terminal support 27 which is secured to the bottom closure member 17 by screws 65. The terminal support 27 includes a mounting portion 67 which is engaged by the screws 65 and which supports a body portion 68 in spaced relation above the bottom closure member 17. The body portion 68 of the terminal support 27 is divided into four contact receiving recesses 70 by a flat planar base 71, a peripheral outer wall 72 and a plurality of cross panels 73.

Each of the movable disconnect contacts 63 consists of a resilient conductive generally L-shaped spring member whose base is affixed in one of the recesses 70 by a pair of conductive eyelets 74. A contact tip 75 is formed at the upper end of each contact 63 for resiliently engaging its corresponding stationary disconnect contact 52. In addition, terminal tabs 77 are held in electrical engagement with the base of the contacts 28 by the eyelets 74.

The manner of connecting the lamp 24, the ballast 25 and the photocontrol 18 to the power supply conductors 60 is well-known in the art and will not be discussed in detail. It is sufficient to point out that the power supply conductors 60 extend downward through a suitable opening 81 in the upper end of the mounting portion 12 and to a pair of the terminal tabs 58 extending toward the rear of a terminal support 45. In addition, the conductors 55 extending from the photocontrol 18 are connected to certain of the tabs 54 on the front of the terminal support 45. The conductors 82 which extend to the lamp

holder 21 and the ballast 25 are connected to certain of the terminal tabs 77 coupled to the movable disconnect contacts 28.

It will be appreciated, therefore, that when the latch 20 is released and the bottom closure member 17 pivoted on the hinge 19 and away from the housing 11, the movable disconnect contact tips 75 will be disengaged from the stationary contact members 52 so that the ballast 25 of the lamp 24 will be disconnected from the power supply conductors 60. This permits maintenance of these electrical components without the danger of accidental contact with electrically line conductors. When the bottom closure member 17 is returned to its latched position, the movable disconnect contacts 63 will again engage the stationary contacts 52 and the lamp 24 and the ballast 25 will be re-inserted into the circuit.

While only a single embodiment of the invention has been shown and described, it is not intended to be limited thereby but only by the scope of the appended claims.

I claim:

1. A luminaire comprising a housing having a bottom opening, a bottom closure member hingedly mounted on said housing, releasable latch means for securing said closure member to said housing in a closed position, an aperture formed in said bottom closure member, a bowl-shaped refractor having a peripheral edge engaging the margin of said aperture, first and second holding means operatively associated with said bottom closure member, said first holding means being releasably engageable with said refractor to hold said refractor in said aperture, an inverted dished reflector having a bottom peripheral rim co-extensive with said refractor edge, said reflector having an aperture formed therein, lamp holding means affixed to said reflector and extending through said aperture, said second holding means being releasably engageable with said reflector to hold said reflector bottom rim against said refractor edge.

2. A luminaire comprising a housing having a bottom opening, a closure member hingedly mounted on said housing, releasable latch means for securing said closure member to said housing in a closed position, an aperture formed in said bottom closure member, a bowl-shaped refractor, the periphery of said refractor engaging the margin of said aperture, first resilient means affixed to said bottom closure member and releasably engageable with said refractor to hold said refractor in said aperture, an inverted dished reflector having a bottom periphery substantially co-extensive with said refractor periphery, said reflector having an aperture formed therein, lamp holding means affixed to said reflector in sealing relation to said aperture, and second resilient means releasably engageable with said reflector and with said bottom closure member to resiliently hold said reflector periphery against said refractor periphery.

3. A luminaire comprising an inverted dished housing having a bottom opening, a closure member hingedly mounted adjacent one side of said housing, releasable latch means on the other side of said housing for securing said closure member to said housing in a closed position, an aperture formed in said bottom closure member, a bowl-shaped refractor having an outwardly extending peripheral flange engaging the margin of said aperture, spring latch means affixed to said bottom closure member and engaging said flange to resiliently hold said refractor in said opening, an inverted dished reflector having a bottom peripheral rim substantially co-extensive with said refractor flange, said reflector having an aperture in the upper end thereof, lamp holding means affixed to said reflector and extending through said aperture, said lamp holding means engaging the margins of said aperture in a sealing relation, spring means releasably engaging said reflector and said closure member to resiliently hold said reflector bottom rim against said refractor flange.

4. A luminaire comprising an inverted dished housing having a bottom opening, a closure member hingedly

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 mounted adjacent one side of said housing and having a peripheral edge coextensive with the bottom opening of said housing, releasable latch means on the other side of said housing for securing said closure member to said housing in a closed position, an aperture formed in said bottom closure member, a bowl-shaped refractor having an outwardly extending peripheral flange engaging the margin of said aperture, a plurality of spring latch members affixed to said bottom closure member adjacent said aperture and releasably engageable with said flange to resiliently hold said refractor in said aperture, an inverted dished reflector having a bottom peripheral rim coextensive with said refractor flange, said reflector having an aperture in the upper end thereof, lamp holding means affixed to said reflector and extending through said aperture, said lamp holding means engaging the margins of said aperture in a sealing relation, elongate spring means releasably engaging said lamp holding means and said resilient latch means to resiliently hold said reflector bottom rim against said refractor flange.

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 5. A luminaire comprising an elongate inverted dished housing having a bottom opening, means at one end of said housing for supporting said luminaire in a generally horizontal position, a closure member hingedly mounted adjacent said one end of said housing and having a peripheral edge coextensive with the bottom opening of said housing, releasable latch means adjacent the other end of said housing for securing said closure member to said housing in a closed position, an aperture formed in said bottom closure member, a symmetrical bowl-shaped refractor having an outwardly extending peripheral flange engaging the margin of said aperture, a first plurality of spring latch members affixed to said bottom closure member adjacent said aperture and releasably engageable with said flange to resiliently hold said refractor in said aperture, an inverted symmetrical dished reflector having a bottom peripheral rim coextensive with said refractor flange, said reflector having an aperture in the upper end thereof, lamp holding means affixed to said reflector and extending through said aperture for supporting a lamp generally vertically within said refractor and along the symmetrical axis thereof, said lamp holding means engaging the margins of said aperture in a sealing relation, a second plurality of latch spring members coupled to said bottom closure member and to said refractor to resiliently hold said reflector bottom rim against said refractor flange.

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 6. A luminaire comprising an inverted dished housing having a bottom opening, a bottom closure member hingedly mounted on said housing, releasable latch means for securing said closure member to said housing in a closed position, an aperture formed in said bottom closure member, a bowl-shaped refractor disposed in said aperture, first and second holding means operatively associated with said bottom closure member, said first holding means being releasably engageable with said refractor to hold said refractor in said aperture, an inverted dished reflector having a bottom peripheral rim substantially coextensive with said refractor and having an opening formed therein, lamp holding means extending through said opening, said second holding means releasably engaging said reflector to hold said reflector bottom rim against said refractor, disconnect contact means having a fixed portion mounted on said housing and a movable portion mounted on said bottom closure member and engageable with said movable portion when said bottom closure member is latched in its closed position, lamp energizing means mounted on said bottom closure member and electrically connected to said lamp holding means and to the movable portion of said disconnect contact means, and energizing conductor means mounted in said housing and connected to the fixed portion of said disconnect contact means.

7. A luminaire comprising an inverted dished housing having a bottom opening, a bottom closure member hingedly

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edly mounted on said housing and having a peripheral edge coextensive with the bottom opening of said housing, releasable latch means for securing said closure member to said housing in a closed position, an aperture formed in said bottom closure member, a bowl-shaped refractor engaging the margin of said aperture, first and second resilient quick release means operatively associated with said bottom closure member, said first quick release means being resiliently engageable with said refractor to hold said refractor in said aperture, an inverted dished reflector having a bottom peripheral rim coextensive with said refractor, lamp holding means extending through said aperture, said second quick release means being resiliently engageable with said reflector to hold said reflector bottom rim against said refractor, disconnect contact means having a fixed portion mounted on said housing and a movable portion mounted on said bottom closure member and engageable with said fixed portion when said bottom closure member is latched in its closed position, lamp energizing means mounted on said bottom closure member and electrically connected to said lamp holding means and to the movable portion of said disconnect contact means, and energizing conductor means mounted in said housing and connected to the fixed portion of said disconnect contact means.

8. A luminaire comprising an inverted dished housing having a bottom opening, a bottom closure member hingedly mounted adjacent one side of said housing and having a peripheral edge coextensive with the bottom opening of said housing, releasable latch means on the other side of said housing for securing said closure member to said housing in a closed position, an aperture formed in said bottom closure member, a bowl-shaped refractor having an outwardly extending peripheral flange engaging the margin of said aperture, a plurality of spring latch members affixed to said bottom closure member adjacent said aperture and releasably engageable with said flange to resiliently hold said refractor in said aperture, an inverted dished reflector having a bottom peripheral rim coextensive with said refractor flange, said reflector having an aperture in the upper end thereof, lamp holding means affixed to said reflector and extending through said aperture, said lamp holding means engaging the margins of said aperture in a sealing relation, a plurality of elongate holding means releasably engaging said reflector and said bottom closure member to resiliently hold said reflector bottom rim against said refractor flange, and disconnect contact means having a fixed portion mounted on said housing and a movable portion mounted on said bottom closure member and engageable with said fixed portion when said bottom closure member is latched in its closed position, lamp energizing means mounted on said bottom closure member and electrically connected to said lamp holding means and to the movable portion of said disconnect contact means, and energizing conductor means mounted in said housing and connected to the fixed portion of said disconnect contact means.

9. In a luminaire comprising an inverted dished housing having a bottom opening, a bottom closure member having an upper peripheral edge co-extensive with the bottom opening in said housing, said closure member being hingedly mounted at one end on said housing, releasable latch means at the other end of said housing for securing said closure member to said housing in a closed position, optical assembly means releasably mounted on said bottom closure member, lamp holding means mounted on said optical assembly means, lamp energizing means mounted on said bottom closure member externally of said optical assembly means, first terminal support means mounted on said bottom closure member and having movable disconnect contacts mounted thereon, second terminal support means mounted on said housing and having stationary disconnect contacts mounted thereon, photoelectric control means mounted on said housing, an access opening in said housing, energizing conductor

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means extending through said access opening and being connected to said stationary contact means, second conductor means connecting said photoelectric controlling means to said stationary contact means, and third conductor means connecting said lamp socket and said lamp energizing means to said movable disconnect contacts, said movable disconnect contacts resiliently engaging said stationary disconnect contacts when said bottom closure member is pivoted to its closed position.

10. A luminaire comprising an inverted dished housing having a bottom opening, a bottom closure member hingedly mounted on said housing, releasable latch means for securing said closure member to said housing in a closed position, an aperture formed in said bottom closure member, a bowl-shaped refractor having a peripheral flange engaging the margin of said aperture, first resilient means for releasably holding said refractor in said aperture, an inverted dished reflector having a bottom peripheral rim co-extensive with said refractor flange, said reflector having an aperture formed therein, lamp holding means affixed to said reflector and extending through said aperture, second resilient means for releasably holding said reflector bottom rim against said flange, movable disconnect contacts mounted on said bottom closure member, stationary disconnect contacts mounted on said housing, energizing conductor means disposed in said housing and being connected to said stationary contact means, and second conductor means connecting said lamp holding means to said movable disconnect contacts, said movable disconnect contacts resiliently engaging said stationary disconnect contacts when said bottom closure member is in its latched position and being disengaged therefrom when said bottom closure member is in an open position, whereby said lamp holding means will be disconnected from said energizing conductor when said bottom closure is pivoted to an open position.

11. A luminaire comprising an inverted dished housing having a bottom opening, a closure member hingedly mounted on said housing and having a peripheral edge co-extensive with the bottom opening of said housing, releasable latch means for securing said closure member to said housing in a closed position, an aperture formed in said bottom closure member, a bowl-shaped refractor having an outwardly extending peripheral flange engaging the margin of said aperture, spring latch means affixed to said bottom closure member adjacent said aperture and releasably engageable with said flange to resiliently hold said refractor in said aperture, an inverted dished reflector having a bottom peripheral rim co-extensive with said refractor flange, said reflector having an aperture formed therein, lamp holding means affixed to said reflector and extending through said aperture, said lamp holding means engaging the margins of said aperture in a sealing relation, resilient means releasably engaging said lamp holding means and said bottom closure member to resiliently hold said reflector bottom rim against said flange, lamp energizing means mounted on said bottom closure member, movable disconnect contacts mounted on said bottom closure, stationary disconnect contacts mounted on said housing, energizing conductor means disposed in said housing and being connected to said stationary disconnect contact, and second conductor means connecting said lamp holding means and said lamp energizing means to said movable disconnect contacts, said movable disconnect contacts resiliently engaging said stationary disconnect contacts when said bottom closure member is in its latched closed position and being disengaged therefrom when said bottom closure member is in an open position, whereby said lamp holding means and said lamp energizing means will be disconnected from said energizing conductor when said bottom closure is pivoted to its open position.

12. A luminaire comprising an inverted dished housing having a bottom opening, a bottom closure member hingedly mounted on said housing, releasable latch means

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on said housing for securing said bottom closure member to said housing in a closed position, an aperture formed in said bottom closure member, optical assembly means removably mounted in said aperture and having lampholding means disposed thereon and extending there-through, spring latch means coupled to said bottom closure member and releasably engageable with said optical assembly means to hold said optical assembly means in said aperture, ballast means mounted on said bottom closure member, first terminal support means mounted on said bottom closure member and having movable disconnect contacts mounted thereon, second terminal support means mounted on said housing and having stationary disconnect contacts mounted thereon, energizing conductor means disposed in said housing and being connected to said stationary contact means, and second conductor means connecting said lamp holding means and said ballast means to said movable disconnect contacts, said movable disconnect contacts resiliently engaging said stationary disconnect contacts when said bottom closure member is in its latched closed position and being disengaged therefrom when said bottom closure member is in an open position, whereby said lamp holding means and said ballast means will be disconnected from said energizing conductor when said bottom closure is pivoted to its open position.

13. A luminaire comprising an inverted dished housing having a bottom opening, a closure member hingedly mounted adjacent one side of said housing and having a peripheral edge co-extensive with the bottom opening of said housing, releasable latch means on the other side of said housing for securing said closure member to said housing in a closed position, an aperture formed in said bottom closure member, a bowl-shaped refractor having an outwardly extending peripheral flange engaging the margin of said aperture, a plurality of spring latch members affixed to said bottom closure member adjacent said aperture and releasably engageable with said flange to resiliently hold said refractor in said aperture, an inverted dished reflector having a bottom peripheral rim co-extensive with said refractor flange, said reflector having an aperture in the upper end thereof, lamp holding means affixed to said reflector and extending through said aperture, said lamp holding means engaging the margins of said aperture in a sealing relation, elongate spring means releasably engaging said lamp holding means and said resilient latch means to resiliently hold said reflector bottom rim against said refractor flange, ballast means mounted on said bottom closure member, first support terminal means mounted on said bottom closure member and having movable disconnect contacts mounted thereon, second terminal support means mounted on said housing and having stationary disconnect contacts mounted thereon, energizing conductor means disposed in said housing and being connected to said stationary contact means, and second conductor means connecting said lamp holding means and said ballast means to said movable disconnect contacts, said movable disconnect contacts resiliently engaging said stationary disconnect contacts when said bottom closure member is in its latched closed position and being disengaged therefrom when said bottom closure member is in an open position, whereby said lamp holding means and said ballast means will be disconnected from said energizing conductor when said bottom closure is pivoted to its open position.

14. A luminaire comprising an elongate inverted dished housing having a bottom opening, means at one end of said housing for supporting said luminaire in a generally horizontal position, a closure member hingedly mounted adjacent said one end of said housing and having a peripheral edge coextensive with the bottom opening of said housing, releasable latch means adjacent the other end of said housing for securing said closure member to said housing in a closed position, an aperture formed in said bottom closure member, a symmetrical

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bowl-shaped refractor having an outwardly extending peripheral flange engaging the margin of said aperture, a first plurality of spring latch members affixed to said bottom closure member adjacent said aperture and releasably engageable with said flange to resiliently hold said refractor in said aperture, an inverted symmetrical 5  
dished reflector having a bottom peripheral rim coextensive with said refractor flange, said reflector having an aperture in the upper end thereof, lamp holding means affixed to said reflector and extending through said aperture for supporting a lamp generally vertically within said refractor and along the symmetrical axis thereof, said lamp holding means engaging the margins of said aperture in a sealing relation, a second plurality of latch 10  
spring members coupled to said bottom closure member and to said refractor to resiliently hold said reflector bottom rim against said refractor flange, ballast means mounted on said bottom closure member, first terminal support means mounted on said bottom closure member and having movable disconnect contacts mounted thereon, 20  
second terminal support means mounted on said housing and having stationary disconnect contacts mounted there-

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on, energizing conductor means disposed in said housing and being connected to said stationary contact means, and second conductor means connecting said lamp holding means and said ballast means to said movable disconnect contacts, said movable disconnect contacts resiliently engaging said stationary disconnect contacts when said bottom closure member is in its latched closed position and being disengaged therefrom when said bottom closure member is in an open position, whereby said lamp holding means and said ballast means will be disconnected from said energizing conductor when said bottom closure is pivoted to its open position.

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