

(No Model.)

2 Sheets—Sheet 1.

C. A. & F. J. MILLER.
CYCLE LAMP.

No. 533,719.

Patented Feb. 5, 1895.

Fig. 1.

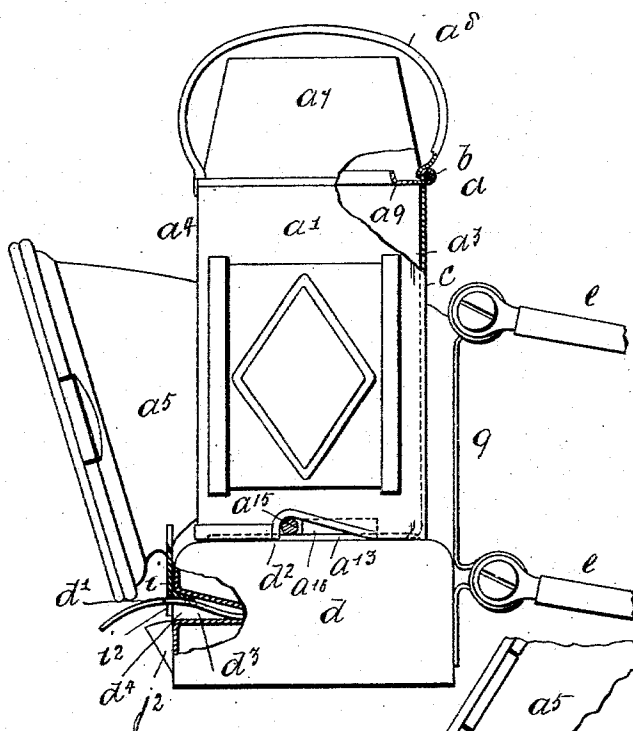


Fig. 2.

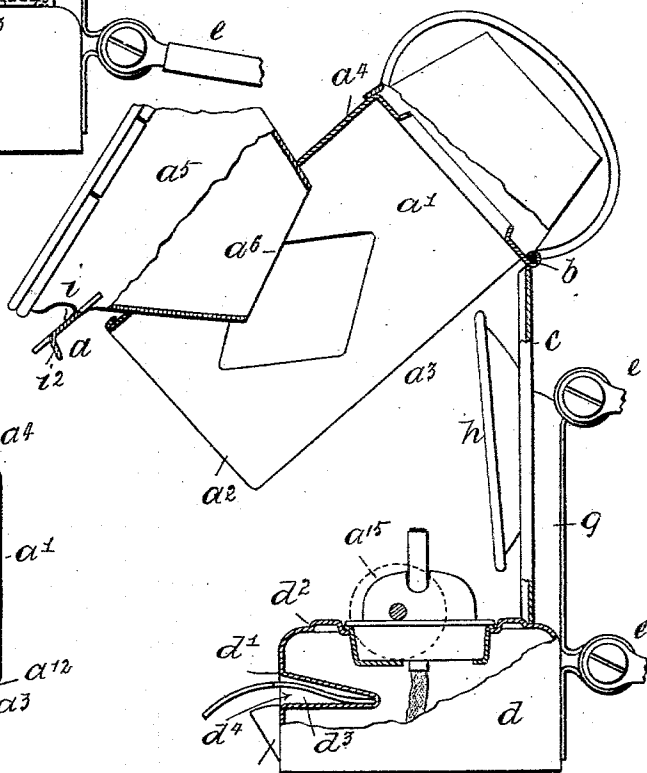
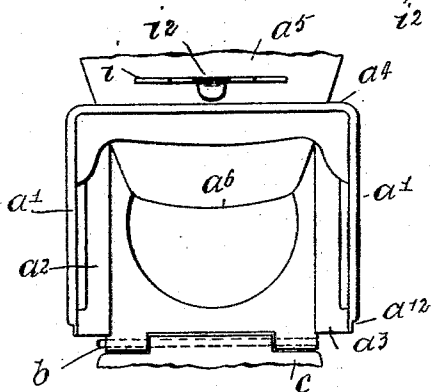


Fig. 4.



WITNESSES

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Fig. 5.

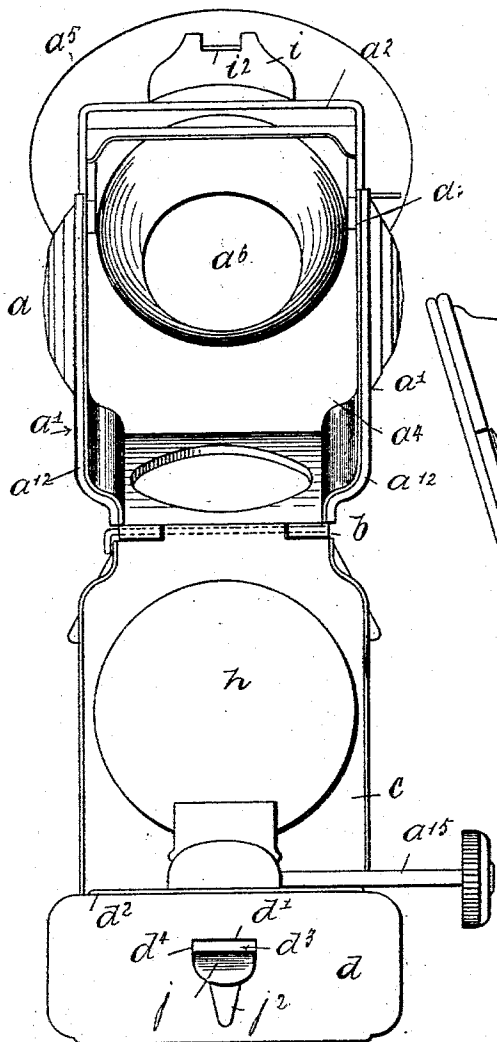
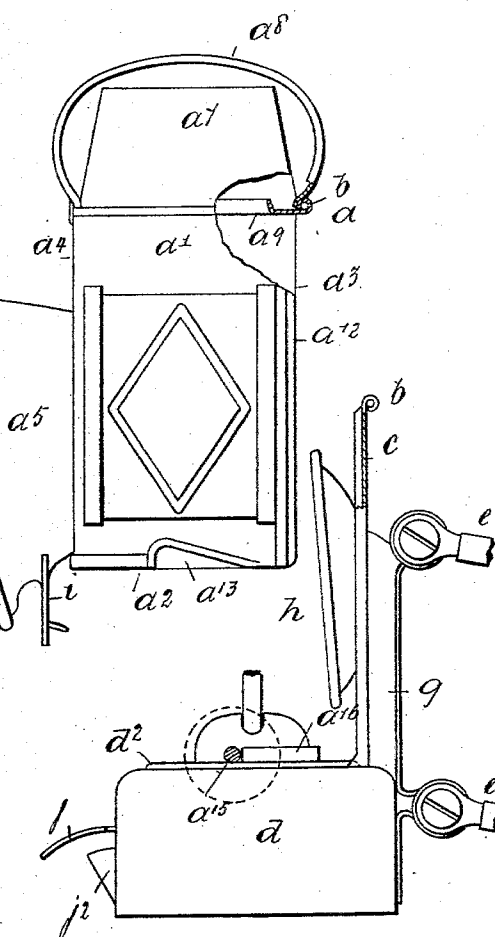


Fig. 3.



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UNITED STATES PATENT OFFICE.

CHARLES ALBERT MILLER AND FREDERICK JOHN MILLER, OF BIRMINGHAM,
ENGLAND.

CYCLE-LAMP.

SPECIFICATION forming part of Letters Patent No. 533,719, dated February 5, 1895.

Application filed June 19, 1893. Serial No. 478,154. (No model.) Patented in England July 22, 1892, No. 13,391.

To all whom it may concern:

Be it known that we, CHARLES ALBERT MILLER and FREDERICK JOHN MILLER, subjects of the Queen of Great Britain, residing in the city of Birmingham, England, have invented certain new and useful improvements in Cycle-Lamps; and we do hereby declare the following to be a full, clear, and exact description of the invention, reference being had to the accompanying drawings, which form part of this specification, and for which invention Letters Patent of Great Britain have been granted to us, bearing date July 22, 1892, No. 13,391.

15 This invention relates to improvements in the construction of two-part-sectional lamps, and our said invention consists in jointing the said sectional parts together in such manner, that the body part, or the main body part, moves away from another and fixed part when a lamp is opened. By thus bodily turning away the said first named part, from that of the said second named part, the interior parts of a lamp are exposed and more readily got at for cleaning and other purposes, than has heretofore been accomplished.

Figure 1 of the accompanying drawings represents in side elevation, partly in section, a two-part jointed sectional lamp constructed, arranged and provided with improvements made according to our invention. The said figure represents the lamp closed, or the component sectional parts in the positions which they assume when the lamp is in use. Fig. 2 represents in section, with parts in elevation, the lamp open, or the movable and shell body part turned forwardly from the fixed back and upwardly from the base, which latter component parts remain quiescent, and have connected to them, the bracket or other arms employed in mounting the lamp. Fig. 3 represents the sectional component parts separated, showing the joints at the upper ends or parts of both of them. Fig. 4 is a plan of the shell body part of the lamp separately. Fig. 5 represents a front elevation of the lamp when the same is fully opened, or with the jointed and shell body part turned back so as to come practically into the same plane as the fixed back upon which it is hung, thus mak-

ing accessible and exposing the whole of the interior surfaces and parts of the lamp.

In Figs. 1 to 5, *a* is the shell body part, having an open or uninclosed bottom *a*², and also an open or uninclosed back *a*³. *a*⁴ is the closed or solid front, carrying a glazed bell *a*⁵, with light aperture *a*⁶, through it. *a*⁷ are inclosed sides. The upper part of the said shell body part *a*, has a crown *a*⁷, a hood *a*⁸, and a breaker *a*⁹, and with the upper part of the said open back, at its junction with breaker, hood and crown, jointed or hinged at *b*, to the top or extremity of an upright and rigid back *c*, directed from or carried upon the top side rear part of an oil tank *d*, which forms the base or bottom to the lamp when the opened or uninclosed bottom and back body part is closed.

Jointedly connected to the middle of the outer side of the fixed back of the lamp, are bracket arms *e*, having or carrying at their extremities, a socket plate and socket. (Not shown.) The said mounting is connected to the back of the lamp by a hollow ventilated backstrap *g*, or other means. The lower extremities of the sides *a*⁷ at the open bottom *a*², fit upon rabbeted edges *d*² of the slightly raised top of the oil tank; hence the making of the joints practically light- and weather-tight when the said body or dislocated body part is closed, and also making the whole of the parts rigid. The fixed back carries an attachable and detachable deflector *h*, so that when the dislocated body part of the lamp is swung upon its hinge joint, and the whole of the interior of the lamp of both the fixed or movable parts exposed, the attachable interior parts can be removed, or the whole cleaned, and the wick lighted or trimmed. One of the sides *a*⁷, of the lamp body part is gapped at *a*¹³, for the clearance of the wick winder *a*¹³, and which clearance *a*¹³, is covered over when the lamp is closed, by a closure plate *a*¹⁶.

Fitted to the under side of the front of the lamp is an outstanding plate *i*, carrying an inwardly disposed inclined lip, stay dowel or projection *i*², which is adapted to take a bearing upon the shoulder or inclined top part *d*⁷ of the mouth entrance *d*⁴, of a hole or recess

d^3 , wherein the tongue spring catch j , works, and is adapted to engage with or snap behind the plate i , as aforesaid. The fully closing of the movable and hinged body upon its base causes the slightly inclined lip or dowel i^2 to impinge and bear upon the shoulder or top part d' , of the mouth d^4 , and by such impingement, the fixed back is prevented from being deflected or forced out of the perpendicular by the force applied in fastening the movable part of the lamp to the fixed part. Thus, by causing a projection or dowel part carried by the movable part of the lamp to take and bear upon the fixed part of the base, the said movable part of the lamp is stayed or tied in manner so as to preserve a constant or fixed distance between the joint and its base. Thus it is obvious that unless such means of diagonal tying, as it were, the lamp movable part to the base during the fastening, were employed, the upright back would be immediately forced out of the perpendicular, in consequence of the members forming as it were levers forcing against each other, by the hinged point of support of the upright back being so considerably removed from the base. In the base part, j^2 is a tongue stop, for limiting the movement of the said free tongue catch j . It will be seen that the opposite edges are provided with inwardly directed flanges, which when the lamp is closed, fit over the rabbeted back edges a^{12} , of the open back a^3 , of the body a , hence the making of the same both weather and light tight and rigid.

We wish it to be understood that instead

of the tank being employed as the base to the lamp, we may employ a base or bottom with slightly turned-up edges, and inclosed within the sides or resting upon the base or bottom, a loose oil tank may be fitted, either to slide therein, or be otherwise attachably connected.

Having fully described our invention, what we desire to claim and secure by Letters Patent is—

1. A cycle lamp composed of a body part and a base part, the body part consisting of two sections one having complete sides and open back and bottom and the other section consisting of an upright or plate mounted upon and carried by the base, the two sections composing the body being hinged together at their upper portions and the section having complete sides and open back or bottom being arranged and adapted to swing outwardly and upwardly so as to give access to the lamp, substantially as described.

2. In a cycle lamp the combination of the sectional body part composed of two sections hinged together, with a base part and mechanism for connecting one of said sections to the base part and relieving the other section of undue strain, substantially as described.

In testimony that we claim the foregoing we have hereunto set our hands.

CHARLES ALBERT MILLER.
FREDERICK JOHN MILLER.

Witnesses:

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ARTHUR T. SADLER,

Both of Birmingham.