(No Model.)

R. M. DIXON.

LAMP.

No. 606,002. Patented June 21, 1898.

Fig. I.

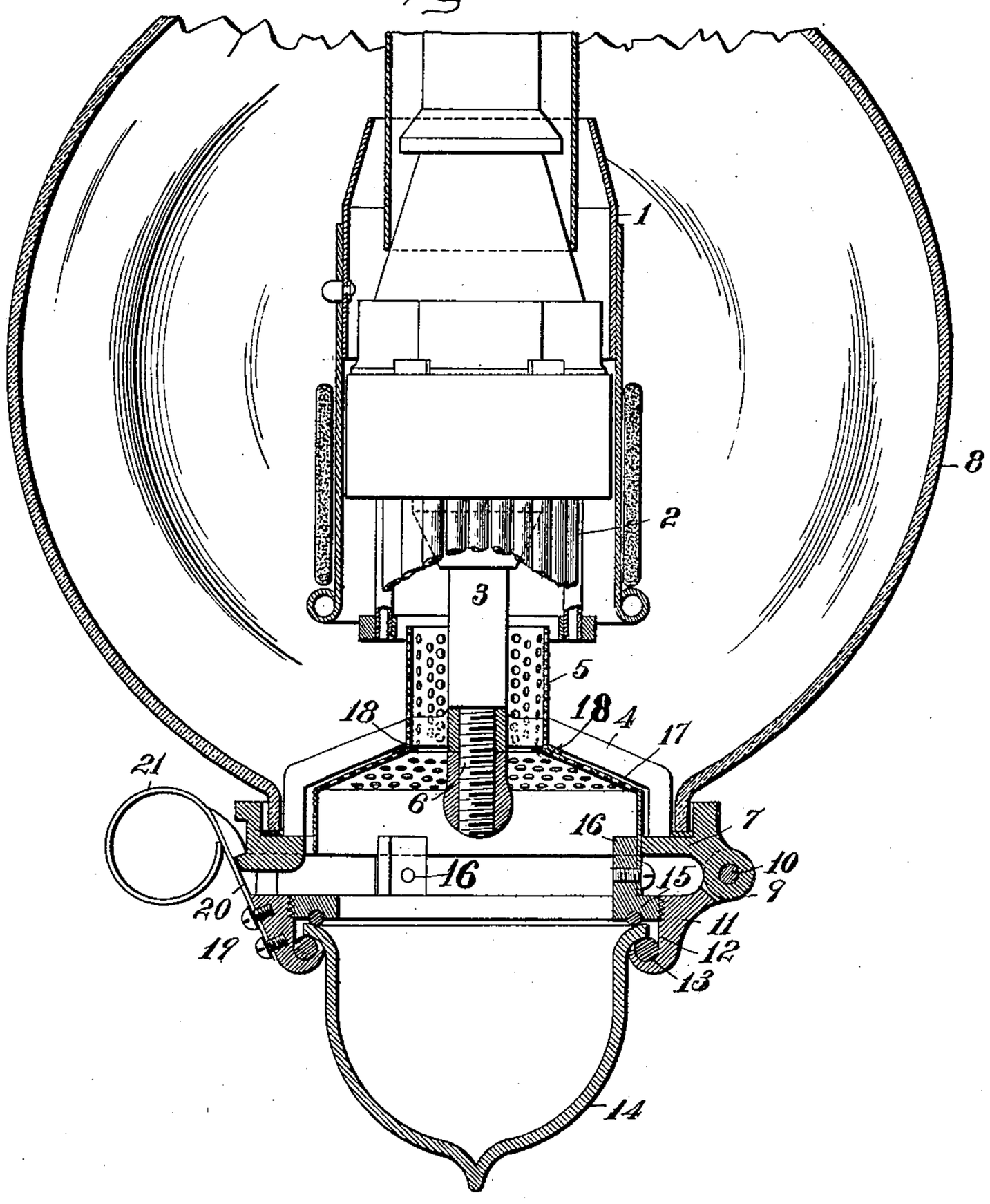


Fig. II.

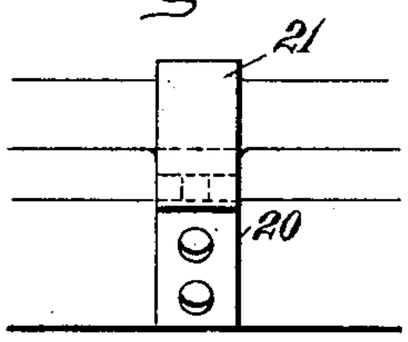
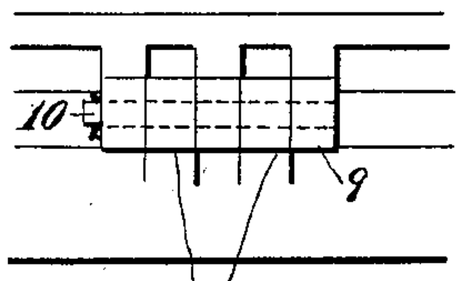


Fig. III.



Witnesses
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UNITED STATES PATENT OFFICE.

ROBERT MUNN DIXON, OF EAST ORANGE, NEW JERSEY, ASSIGNOR TO THE SAFETY CAR HEATING AND LIGHTING COMPANY, OF NEW YORK.

LAMP.

SPECIFICATION forming part of Letters Patent No. 606,002, dated June 21, 1898.

Application filed November 11, 1896. Serial No. 611,693. (No model.)

To all whom it may concern:

Be it known that I, ROBERT MUNN DIXON, of East Orange, in the county of Essex, State of New Jersey, have invented certain new and useful Improvements in Lamps, of which the following is a complete specification, reference being had to the accompanying drawings.

The object of my invention is to produce certain improvements in Argand lamps specially, but not exclusively, adapted for the burning of compressed gas.

Heretofore in lamps of the same general type the mechanism controlling the air-supply has been suspended from the central stem of the burner and made separable therefrom, as by means of a bayonet-joint or like connection. In the old-style lamps the globe is held in place by the mechanism suspended from the stem of the burner; but it has been necessary also to employ a clamp for supporting the globe at the upper end. By my invention I securely fasten the globe at the lower end, dispensing with the extra clamp at the upper end and the separable mechanism carried upon the stem of the burner. I also provide means for gaining access to the interior of the lamp by a part hinged to a ring secured to the stem and employ a catch for sustaining the hinged part in the closed position carried exclusively upon the swinging part of the lamp, thereby affording means for lifting the hinged part and fastening it in place through the manipulation of the catch.

In the accompanying drawings, Figure I is a sectional view of my lamp with some of the parts shown in elevation. Fig. II is an elevation of the catch detached. Fig. III is an elevation of the hinged part.

Referring to the figures on the drawings, 1 indicates a burner of well-known construction adapted to discharge gas or similar illuminant from a ring of downwardly-opening tubes 2.

3 indicates the central stem of the lamp.

4 indicates a spider, which carries a foraminous cylinder 5, which constitutes the vertical portion of the flame-spreader. The spider is screwed, as indicated at 6, to the stem 3, which securely supports it in position. The stem 3 extends down beyond the burner, and the ring 7 and the spreader, which are carried thereby, are situated below the burner. The spider carries a depending grooved ring 7, within the groove of which is supported the globe 8 of the lamp.

Upon one side of the ring 7 are provided lugs 9, to which, as by a pintle 10, are secured the lugs 11 of a swinging frame 12. The swinging frame is provided with a groove 13, upon a packing-ring within which is seated the flanged edge of a cup 14, which is secured in place, as by a ring 15. The ring 15 is provided with projections 16, to which is secured, as by screws, the lower part of a foraminous spreader 17, which meets the spreader 5 at 18 when the ring 12 is in the closed position.

Upon the side of the ring 12 opposite the hinge I provide a beveled face 19, to which is secured, as by screws, a spring-catch 20, that is provided with a finger-ring 21 for operating the catch and for lifting or dropping the cup 14.

In practice, as above described, the globe 8 is permanently carried upon the ring 7 of the spider 4, which is screwed upon the end of the stem 3. The vertical part 5 of the spreader is also carried in fixed relations to the burner by the spider. Whenever the operator desires to gain access to the interior of the burner, he can do so by operating the latch 20, whereupon the cup 14, the ring 12, and the part 17 of the foraminous spreader drop away from the burner, giving easy access to the interior thereof for lighting or cleaning purposes.

By the employment of a spring-catch upon the hinged frame the latter may be raised or lowered without touching the cup and without danger of tarnishing its surface.

What I claim is—

1. In a lamp, the combination with a burner and its stem, of a spider and globe-supporting ring, the vertical portion of the spreader carried upon the spider, a hinged frame secured to the ring, and the lower portion of the foraminous spreader carried upon the frame, and adapted to form a continuation of the first-named portion when the frame is closed, substantially as set forth.

2. In a lamp, the combination with the burner and its stem extending centrally below the burner, of a spider supported by the

stem below the burner, a globe open at its lower end and supported upon the spider, a frame hinged to the spider, and a closing device carried by such frame for closing the lower open end of the globe, substantially as set forth.

3. In a lamp, the combination with the burner and its stem extending centrally below the burner, of a ring supported from such stem and arranged below the burner, a globe open at its lower end and supported by said ring, a frame hinged to such ring, a cup arranged to close the lower open end of the globe, carried by such frame, and a catch by which the said frame and cup are held in their closed positions, substantially as set forth.

In testimony of all which I have hereunto subscribed my name.

ROBERT MUNN DIXON.

Witnesses:

H. G. DARWIN,

HUGH ROSE.