No. 687,739. Patented Dec. 3, 1901.

J. C. FLEMING.

REFLECTOR FOR LIGHTS.

(Application filed Jan. 4, 1901.)

(No Model.)

Fig. 1.

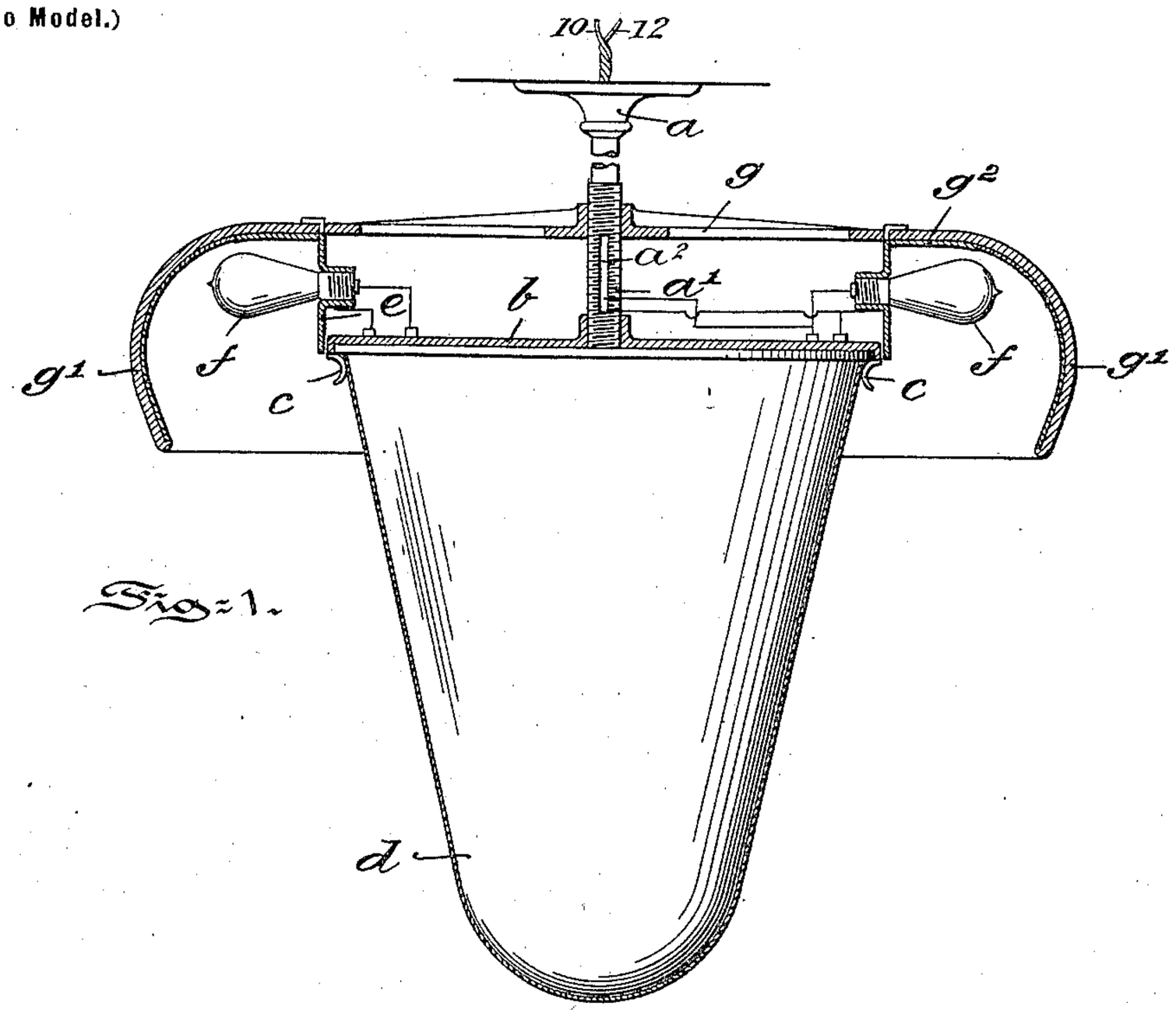
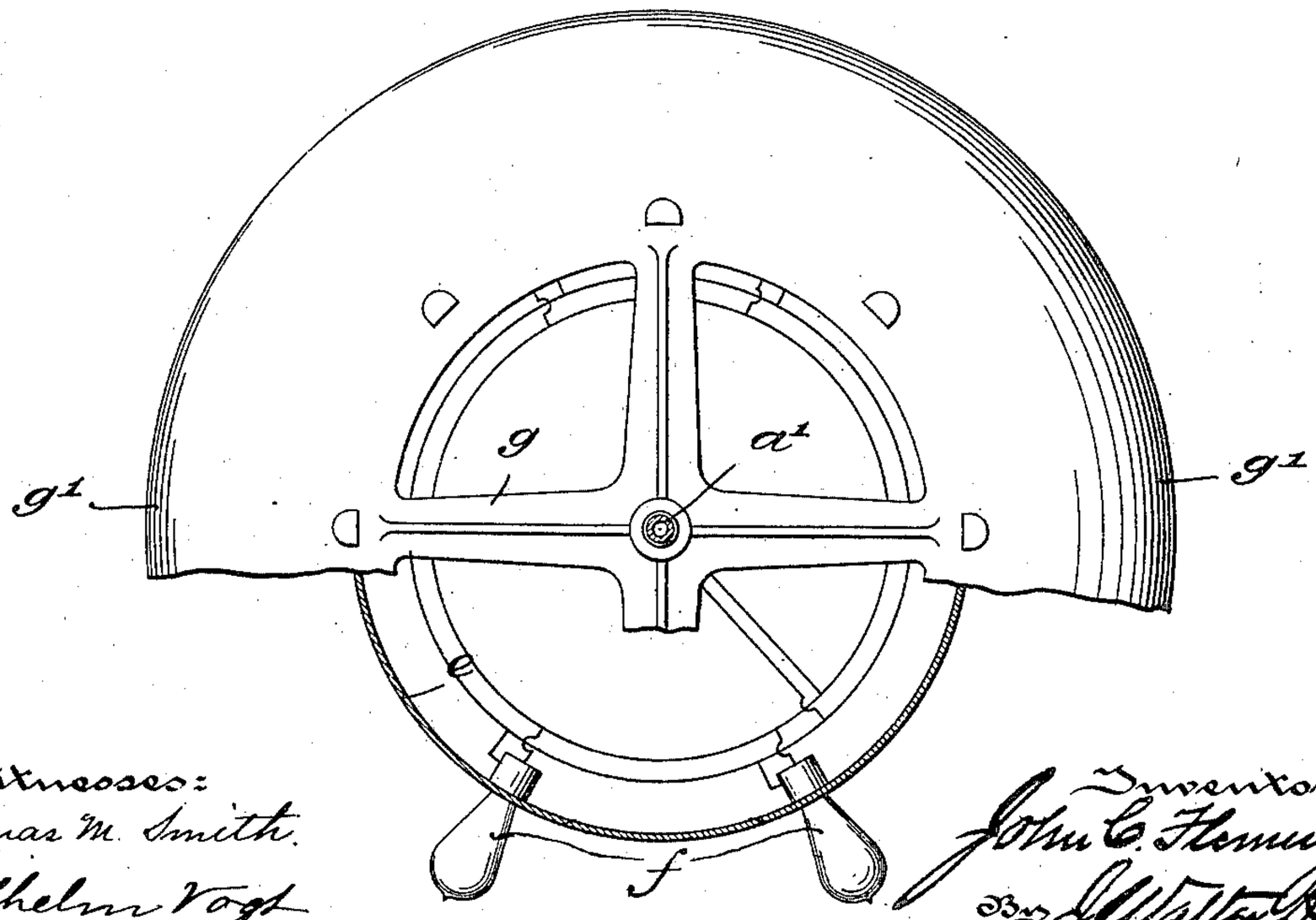


Fig. 2.



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UNITED STATES PATENT OFFICE.

JOHN C. FLEMING, OF SUMMIT, NEW JERSEY.

REFLECTOR FOR LIGHTS.

SPECIFICATION forming part of Letters Patent No. 687,739, dated December 3, 1901.

Application filed January 4, 1901. Serial No. 42,036. (No model.)

To all whom it may concern:

Be it known that I, JOHN C. FLEMING, a citizen of the United States, residing at Summit, in the county of Union and State of New Jersey, have invented certain new and useful Improvements in Reflectors for Lights, of which the following is a specification.

My invention has relation to a reflector for electric or other lights for diffusing the illumination over a large area or field, and in such connection it relates to the construction and arrangement of the reflector for such purpose.

The principal object of my invention is to provide a simple, effective, and reliable reflector for electric or other lights for diffusing over a large area or field in volume, the illumination from such light or lights disposed in the path of the reflector and the reflected illumination from the light-emitting body or bodies adapted to be diffused by the presence of means having the property to take up the reflected light, and thereby not only to afford a better quality of illumination, but also a larger area of the reflected and diffused illumination.

My invention, stated in general terms, consists of a reflector for electric or other lights constructed and arranged in substantially the manner hereinafter described and claimed.

The nature and scope of my invention will be more fully understood from the following description, taken in connection with the accompanying drawings, forming part hereof, in which—

Figure 1 is a vertical central sectional view of a reflector lamp or lantern embodying main features of my invention; and Fig. 2 is a view, partly in plan and partly in broken section, of the upper framework of the lamp or lantern.

Referring to the drawings, *a* is a suitable support or socket adapted to be fixed or secured to the ceiling or other preferred support.

a' is a hollow tube or standard threaded and slotted at a^2 and which is adapted to be screwed into the socket *a* and into a base-plate *b*, provided with a peripheral flange having spring-clips *c* for detachably engaging a conoidal or other shape body *d* therewith by simply pushing the upper end of the body *d* against the clips *c*, which will yield under the pressure to the upper end of the body *d*, so as to be brought against the under face of the base-plate *b*, and to be held against said plate by the spring tension of the clips *c*, bearing firmly against the exterior surface or under edge at the upper end of the body *d*. This body *d* may be withdrawn by simply grasping the same by hand and exerting a slight pull downward to cause the clips *c* to yield outward to free the body *d* from its seating with the base-plate *b*. This body may consist of a transparent or translucent material or substance, or it may have such a substance applied over the whole or part of the surface of the same, as preferred, to serve the purpose of a light reflecting and diffusing body. Above the base-plate *b* is a vertical frame or ring *e*, and extending therefrom at suitable distances apart are incandescent lights or other light-emitting bodies *f*.

g is a perforated spider detachably secured to the tube or standard *a* and carrying the lamp ring or frame *e*. This perforated spider *g* is provided with a downwardly-curved rim or flange *g'*, surrounding the incandescent lights or light-emitting bodies *f*, the inner surface of the rim or flange *g'* being coated with or having applied to the surface of the same a substance which makes such a reflector for the series of incandescent lights or light-emitting bodies *f*, projecting from the frame or ring *e*, as clearly illustrated in Fig. 1, while the portion g^2 of the said rim or flange on the under side nearest to the open portion of the spider *g* is preferably provided with a non-light-absorbing material, such as enamel, which is adapted to throw a certain proportion of the light from the lights or bodies *f* in a downward direction. The larger amount of light in reflected form is directed onto the body *d*, which has the property of reflecting and diffusing the same in volume over a large area or field. The conducting-wires 10 and 12 from a suitable source of electric energy may be connected with the lamps in series or in parallel and are passed through the slot a^2 of the hollow tube or standard *a'* to the series of lamps *f*, supported in and from the ring or frame *e*, as illustrated in Fig. 1 of the drawings.

By the arrangement hereinbefore explained the body *d* and the base-plate *b* may both be

removed from the tube or standard *a* without disturbing the ring or frame *e*, with its spider *g*, or vice versa, thus making it possible to readily obtain access to the interior of the ring or frame *e* for repairs to the lamps, for wiring, or otherwise.

Having thus described the nature and object of my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. In a reflector for lights, a standard supporting a base-plate provided with a peripheral flange having clips, a body adapted to reflect and diffuse light and adapted to be held against said base-plate by means of said flange and clips, light-emitting bodies extending from a ring, a spider supported by said standard and having a rim curving around said light-emitting bodies, said ring depending from said spider and a portion of said rim of said spider being coated with a reflecting material, substantially as and for the purposes described.

2. In a reflector for lights, a standard supporting a base-plate provided with a peripheral flange having clips, a body adapted to reflect and diffuse light and adapted to be held against said base-plate by means of said flange and clips, light-emitting bodies projecting from a ring, a spider supported by said standard and having a rim curving around said light-emitting bodies, said ring supported from said spider, one portion of said rim of said spider having a reflecting material applied to the same, and the other portion coated with enamel, substantially as and for the purposes described.

In testimony whereof I have hereunto set my signature in the presence of two subscribing witnesses.

JOHN C. FLEMING.

Witnesses:
J. WALTER DOUGLASS,
THOMAS M. SMITH.