

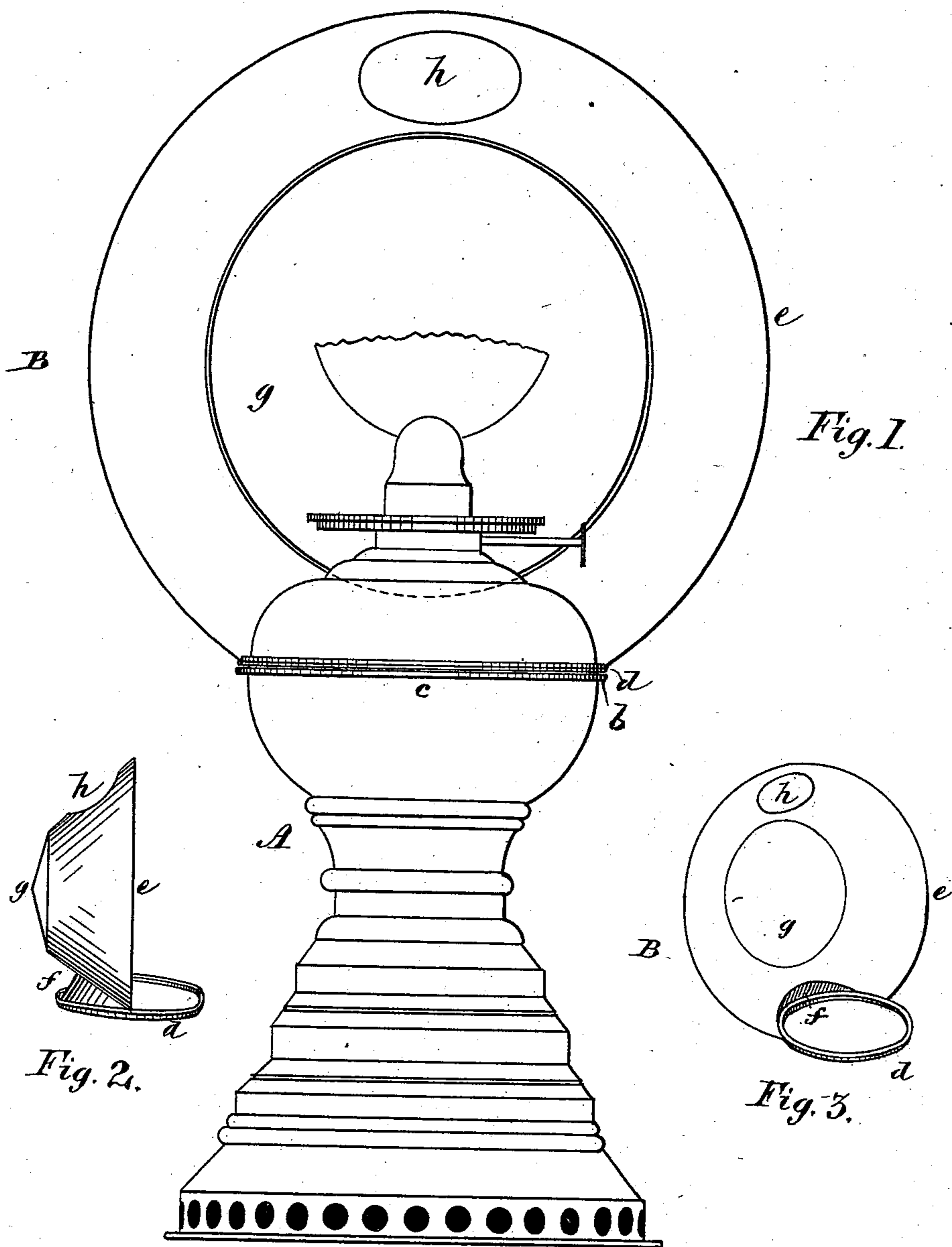
(No Model.)

R. M. WANZER.

ADJUSTABLE REFLECTOR AND HOOD SHADE FOR LAMPS.

No. 376,692.

Patented Jan. 17, 1888.



Witnesses

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UNITED STATES PATENT OFFICE.

RICHARD M. WANZER, OF HAMILTON, ONTARIO, CANADA, ASSIGNOR
TO THE WANZER LAMP COMPANY, (LIMITED,) OF PHILADELPHIA,
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ADJUSTABLE REFLECTOR AND HOOD-SHADE FOR LAMPS.

SPECIFICATION forming part of Letters Patent No. 376,692, dated January 17, 1888.

Application filed February 21, 1887. Serial No. 228,603. (No model.)

To all whom it may concern:

Be it known that I, RICHARD MOTT WANZER, of the city of Hamilton, in the county of Wentworth, in the Province of Ontario, Dominion of Canada, have invented a certain new and useful Combined Adjustable Reflector and Hood-Shade for Lamps; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same.

The invention relates to a very simple but exceedingly handy and convenient device of a combined reflector, hood-shade, and ring, which can be instantly adjusted on a lamp and as quickly removed, and materially increase the illuminating power of the burner; and, while being adapted to any ordinary lamp, is particularly adapted to kerosene-lamps of my manufacture, constructed to be used without chimneys.

By reference to the drawings forming part of this specification, it will be seen that Figure 1 represents a front view of the device attached to a lamp without a chimney. Fig. 2 is a side view of the combined reflector, hood, and ring detached from lamp. Fig. 3 is a perspective view of the same, also detached.

A is the lamp, which may represent any ordinary lamp provided with a circular projection, *b*, formed around the central portion, *c*, of the oil-reservoir.

B is the combined reflector and hood with ring attachment, and which may be described as follows:

d is an annular ring, made to fit and slip over the upper part of the lamp and rest on the annular projection *b* of the lamp. To this ring is attached a nearly circular-shaped hood, *e*, its front being wire-edged and both ends secured by solder or otherwise to the ring *d*. A gore-shaped neck-piece, *f*, is soldered on its upper edge to the hood *e* and its lower edge to the ring *d*. The central rear portion of the hood *e* has the reflector *g* affixed therein in such a position that its center will be about opposite to the flame of the burner.

h is a circular hole at the upper portion of the hood, immediately over the flame, and which allows the heated air readily to escape when no chimney is used on the lamp, or to admit a chimney through it when one is used.

The face of the reflector may be of any of

the ordinary materials used for that purpose, and the hood may be of any bright sheet metal, plain, corrugated, or stamped in any design which will give a reflecting-surface to assist the reflector *g* in increasing the illuminating power of the light. The joint use of the hood and reflector increases the light to a wonderful degree, and the light can be thrown in any direction by simply moving the lamp or hood as desired. When the light is required to be diffused in all parts of a room alike, then the hood containing the reflector is simply lifted off the lamp, which can be done instantly. When the light is required to be more concentrated in a room, then the hood and reflector are simply placed on the lamp, the ring *d* resting on the annular projection *b* of the lamp.

Among the many advantages of my device are its simplicity, its action as a double reflector, as the hood-shade is a reflector also, reflecting the rays of light at a different and wider angle from the reflector proper, and materially increasing the ordinary power of the burner employed, with less consumption of oil than is required for ordinary lamps.

This device is particularly well adapted for those of weak or sore eyes, as the hood-shade can be so turned as to prevent the light-rays from falling direct on the eyes, and while they are in shade the book or newspaper, &c., is clearly illuminated by the rays direct from the burner, thus preventing the contraction of the pupils of the eyes at night, and allows the reader to read or work without fatigue or overstraining the eyes.

I do not broadly claim a hood-shade, reflector, or ring, but the combination of the parts and the manner of attaching to a lamp.

Having thus described my device and its advantages, what I claim as my invention is—

The herein-described reflector and hood-shade for lamps, consisting of the ring *d*, the shade *e*, the neck *f*, connecting said ring and shade, and the reflector *g*, all combined substantially as and for the purpose set forth.

Dated at Hamilton, Ontario, this 27th day of January, A. D. 1887.

R. M. WANZER.

In presence of—

CHARLES JOHNSON,
WM. BRUCE.