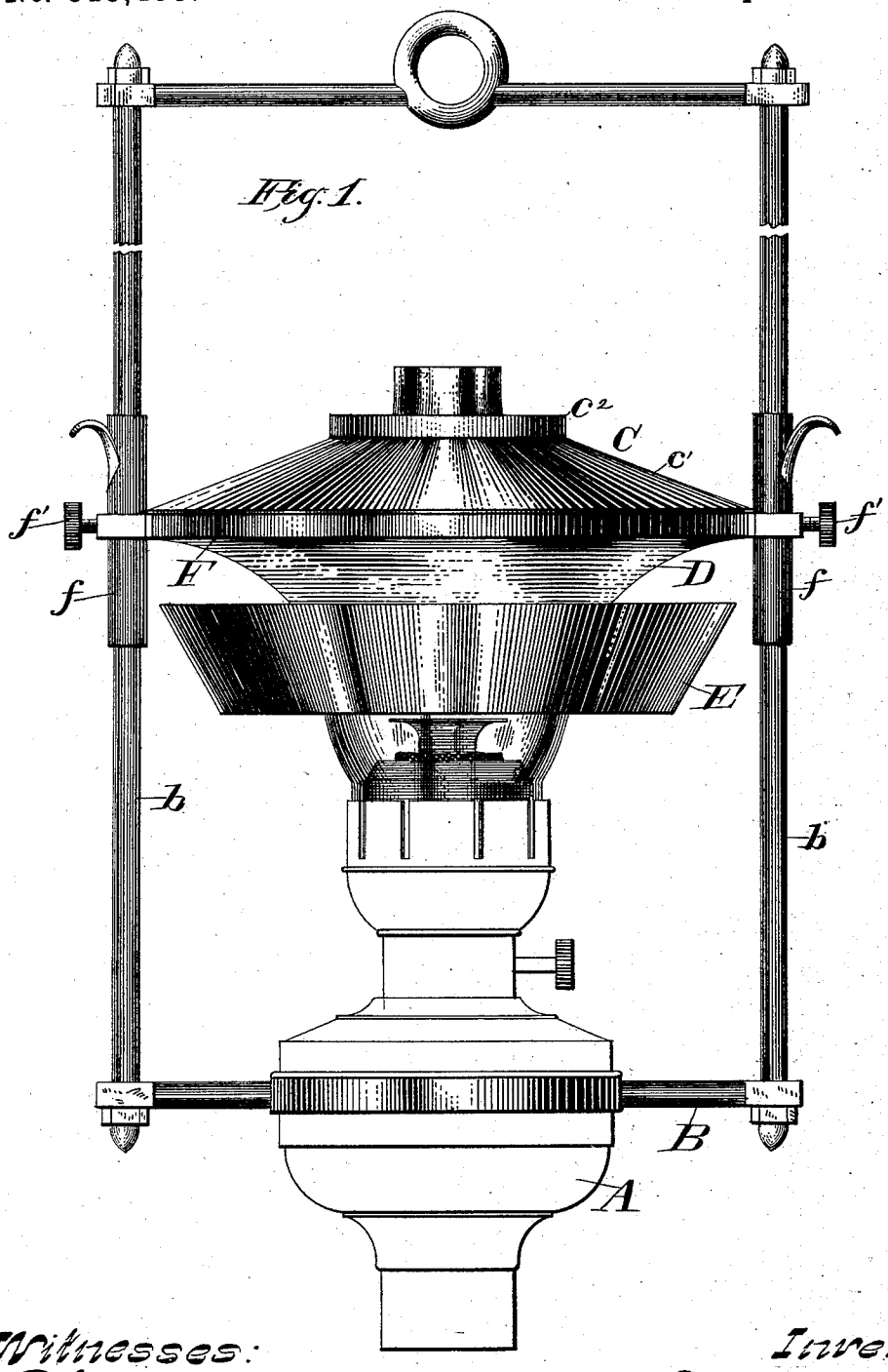
(No Model.) 2 Sheets—Sheet 1.

S. C. MOWER.

REFLECTOR.

No. 315,433. Patented Apr. 7, 1885.



Witnesses:
E. G. Jones
R. Platz

Inventor
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N. PETERS. Photo-Lithographer. Washington. D. C.

(No Model.) 2 Sheets—Sheet 2.

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Fig. 2.

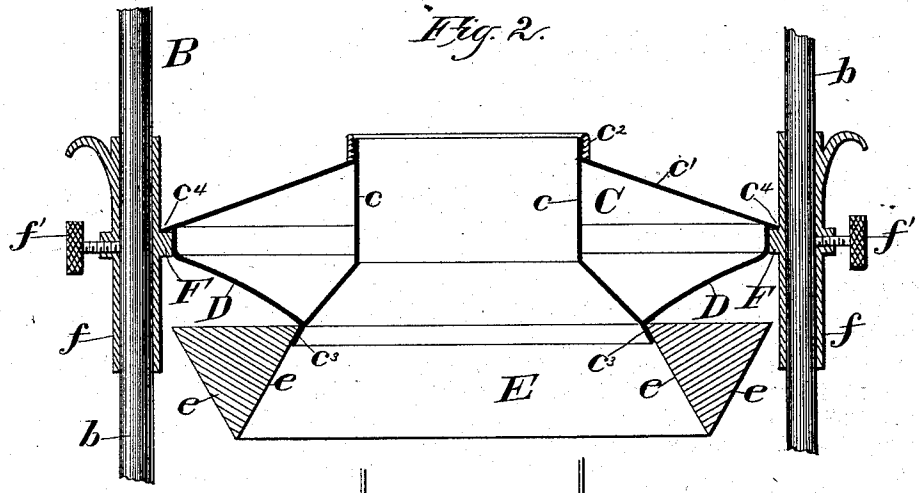
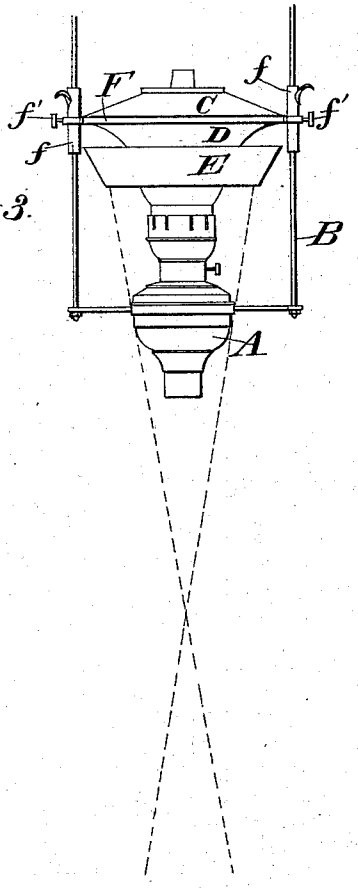


Fig. 3.



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UNITED STATES PATENT OFFICE.

SAMUEL C. MOWER, OF MILWAUKEE, WISCONSIN.

REFLECTOR.

SPECIFICATION forming part of Letters Patent No. 315,433, dated April 7, 1885.

Application filed November 12, 1884. (No model.)

To all whom it may concern:

Be it known that I, SAMUEL C. MOWER, of Milwaukee, in the county of Milwaukee, and in the State of Wisconsin, have invented certain new and useful Improvements in Reflectors; and I do hereby declare that the following is a full, clear, and exact description thereof.

My invention relates to improvements in reflectors for lighting apparatus, and will be fully described hereinafter.

In the drawings, Figure 1 represents a pendent lamp fitted with a reflector embodying my invention. Fig. 2 is a cross-section showing the general construction of my device, and Fig. 3 is a diagram illustrating the action of my improved reflector.

The object of my invention is to produce a reflector by means of which the light-rays which would otherwise be of little or no value are concentrated and redistributed within a certain zone with useful effect. The increase in the intensity and penetration of the light given by my improved reflector is due to a prismatic refracting collar or base of glass fitted above and surrounding the focus of a lamp or of any other lighting device, its sides being at such angles that the light-rays striking from below are deflected and thrown inward upon a reflector, from which they are thrown off at converging angles below the lamp or burner.

A is the lamp, and B indicates the pendent frame supporting the same in the usual manner.

C is the reflector-frame, the central core, *c*, of which has its lower portion made in the shape of a truncated cone, as shown, while its upper rim projects slightly beyond the cover or roof *c'*, and is screw-threaded to receive the fastening-collar c^2, that is provided with a screw-thread in its inner periphery.

D is the reflector, which is made in the shape of the inverted lower portion of a bell, but may also be made in the form of an inverted truncated cone, according to the refracting effect it is intended to produce through the prismatic glass collar or base E. This latter is supported by means of a flange, c^3, formed on the lower edge of the conical portion of the core *c*, and projecting downward on an incline corresponding to the inner face of the prismatic collar. The sides *e e* of the said collar are more or less inclined, according to the character of the light required and to the height at which the lamp or burner has to be suspended. The cover or roof *c'* of the reflector-frame is extended slightly beyond the reflector's outer edge, as at c^4, so as to rest against the upper edge of the supporting-ring F. This latter is provided at diametrically-opposite points with vertical sleeves *f f*, and these sleeves are adapted to slide up and down along the rods *b b* of the pendent frame, and to be adjusted at any desired height by means of thumb-screws *f' f'*, in the usual manner.

I propose generally to give to the lower flared portion of the core *c* a reflecting-surface; but this forms no very essential part of my invention, as in some cases a reflecting-surface will not be of any special service.

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

1. In a lighting apparatus, the combination, with an inverted truncated-cone or bell shaped reflector held in an adjustable frame above and around the light, of a prismatic collar or base of glass depending therefrom, substantially as and for the purpose set forth.

2. In a lighting apparatus, the combination of the lamp A, pendent frame B, reflector-frame C, having core *c*, with flanges c^3 c^4, cover or roof *c'*, and fastening-collar c^2, reflector D, prismatic glass collar E, and supporting-ring F, provided with sliding sleeves *f f* and adjusting-screws *f' f'*, substantially as shown and described, and for the purpose set forth.

In testimony that I claim the foregoing I have hereunto set my hand, at Milwaukee, in the county of Milwaukee and State of Wisconsin, in the presence of two witnesses.

SAMUEL C. MOWER.

Witnesses:

S. S. STOUT,

H. G. UNDERWOOD.