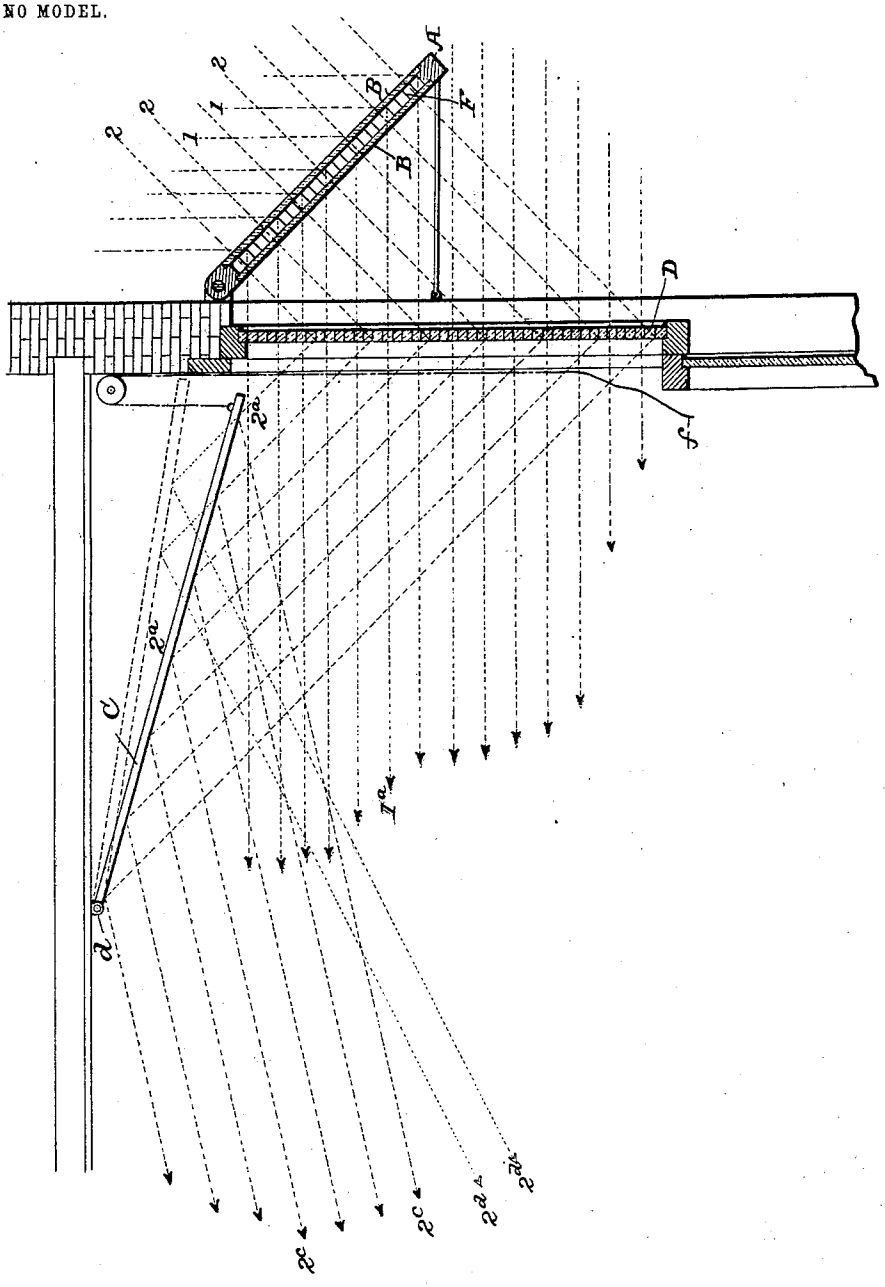
No. 717,784. PATENTED JAN. 6, 1903.

F. L. O. WADSWORTH.

ILLUMINATING CANOPY.

APPLICATION FILED APR. 15, 1898.

NO MODEL.



Witnesses
J. H. Finkel
Lawrence Stevens

Inventor
by F. L. O. Wadsworth
Thurston Thurman
Attorneys

THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

FRANK L. O. WADSWORTH, OF WILLIAMS BAY, WISCONSIN, ASSIGNOR, BY MESNE ASSIGNMENTS, TO PRESSED PRISM PLATE GLASS COMPANY, A CORPORATION OF WEST VIRGINIA.

ILLUMINATING-CANOPY.

SPECIFICATION forming part of Letters Patent No. 717,784, dated January 6, 1903.

Application filed April 15, 1898. Serial No. 677,739. (No model.)

To all whom it may concern:

Be it known that I, FRANK L. O. WADSWORTH, a citizen of the United States, residing at Williams Bay, in the county of Walworth and State of Wisconsin, have invented certain new and useful Improvements in Illuminating-Canopies, of which the following is a specification.

My invention consists in the combination of an illuminating-canopy or other illuminator with an illuminating structure of such form as to transmit without change of direction the light which is deflected into the room by the canopy and at the same time to deflect the light which passes through the canopy's structure unchanged in direction upward toward the ceiling of the room to be illuminated. By this means I am enabled to utilize more fully the light which passes through the canopy structure and would ordinarily pass through the opening behind the canopy and fall on the floor near the opening, thus being practically lost for illuminating purposes.

In the accompanying drawing I have illustrated in sectional elevation my improvement in illuminating structures as applied to the window and room of a building.

In carrying out my invention any suitable combination of structures may be used.

As shown in the drawing, A represents an illuminating-canopy composed of a frame supporting two glass plates B B, between which is sealed a series of parallel doubly-reflecting strips F perpendicular to the general plane of the structure A. As shown, the strips F are thin reflector-blades parallel to each other and separated by air-spaces to an extent equal to about the width of the blades. This structure is arranged in an inclined position above a window or other wall-opening and receives light from the direction 1 and turns it into the room horizontally in the direction 1^a and at the same time allows the light from the direction 2 parallel to the plane of the strips to pass through it unchanged in direction. This light is received by the illuminating structure D, which acts similarly to the canopy, but consists of superposed blocks, the intervening spaces constituting the reflector-faces and which deflects the light upward toward the ceiling of the room, as at 2^a 2^a. This light would be received on the ceiling and if the same were painted white or whitewashed would be diffused downward again into the room, producing a much better illuminating effect than when allowed to fall on the floor. It may be still better utilized, however, by placing on the ceiling of the room a reflector C, arranged at such an angle as to receive the rays 2^a 2^a and direct them in any desired direction, as 2^c 2^c. This reflector may be pivoted, as at *d*, and arranged to be raised and lowered—for example, by means of a pulley and cord *f*—so as to throw the light in other directions, as 2^d 2^d, when required—as, for instance, when there is any change in the direction of light received by the structure D. This adjustable ceiling-reflector may also be employed in other cases or combinations where it is desired to make use of rays projected toward the ceiling.

Without limiting myself to the precise construction of illuminators or to the arrangement shown, I claim—

1. The combination of an illuminator and a second illuminator arranged at an angle to the first, each illuminator having parallel separated externally-reflecting faces, substantially as set forth.

2. The combination of two illuminators arranged at an angle to each other, each having parallel reflectors perpendicular to the general plane of the illuminator, substantially as set forth.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

FRANK L. O. WADSWORTH.

Witnesses:
HARRY E. HAY,
W. CLARENCE DUVALL.