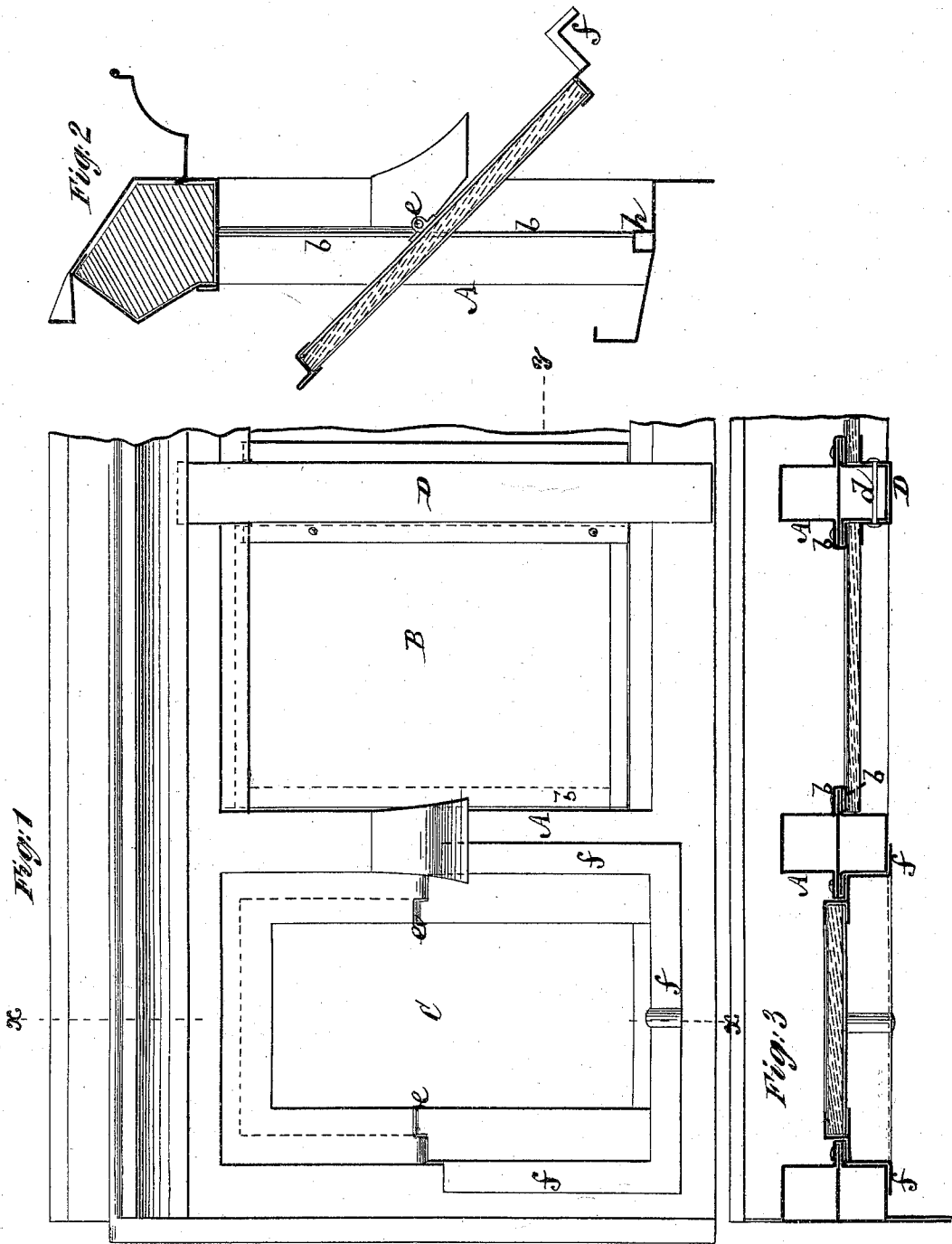


G. HAYES.

Skylight Turrets and Conservatories.

No. 143,153.

Patented September 23, 1873.



Witnesses:
Michael Ryan
Fred Haynes

George Hayes
by his Attorneys
Brown & Allen

UNITED STATES PATENT OFFICE.

GEORGE HAYES, OF NEW YORK, N. Y.

IMPROVEMENT IN SKYLIGHT TURRETS AND CONSERVATORIES.

Specification forming part of Letters Patent No. **143,153**, dated September 23, 1873; application filed July 14, 1873.

CASE G.

To all whom it may concern:

Be it known that I, GEORGE HAYES, of the city, county, and State of New York, have invented certain Improvements in Skylights, Conservatories, and other glazed structures, of which the following is a specification:

This invention consists in a combination, with hollow metallic flanged side posts or uprights, composed of reversely-arranged trough-shaped bars, constructed to receive the glasses, of flanged trough-shaped strips, arranged to straddle and stiffen the posts or uprights; likewise to hold the glasses in place, and to act as weather-strips. The invention also consists in a novel construction of swinging sash, with an overlapping exterior flange, for the purpose of more effectually excluding rain and snow.

In the accompanying drawing, which forms part of this specification, Figure 1 represents an outside face view of a turret-light, in part, with stationary and opening sashes, constructed in accordance with my invention; Fig. 2, a vertical section on the line *xx*; and Fig. 3, a horizontal section on the line *yy*.

Similar letters of reference indicate corresponding parts.

A A represent the hollow metallic side posts or uprights, each composed of two trough-shaped bars, with flanges *b b* on opposite sides of them, said bars lying with their faces one against the other, and being secured together by rivets passing through their flanges, and with or without a stiffening-plate between the bars. B is a stationary, and C a movable,

sash. D is a flanged trough-shaped strip, arranged to straddle and stiffen the posts A, or such of them as receive the glasses of the stationary sashes, likewise serving to hold the glasses from falling out, and to act as weather-strips at the joints throughout the length of the posts. Said strips may be held in place by lapping under the upper molding and over the lower portion of the frame, and by one or more bolts, *d*, arranged to pass through them and the posts they straddle. The swinging or movable sashes C, which rock on side bearings or pivots *e*, are each constructed, around their lower or outside opening portions, with an overlapping exterior flange, *f*, which, when the sash is closed, shuts down or against the outside surface of the stationary portion of the structure or frame, and in addition to the usual bearing *h*, against which the sash closes, forms an elastic outer flashing that serves most effectually to exclude rain or snow.

What is here claimed, and desired to be secured by Letters Patent, is—

1. The combination of flanged covering-strips D with the hollow metallic posts A, having flanges *b b*, for the support of the glasses substantially as specified.

2. The swinging sashes C, provided with exterior and overlapping elastic flanges *f*, essentially as described.

GEORGE HAYES.

Witnesses:

MICHAEL RYAN,
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