

W. P. HAGADORN.
SKYLIGHT-LIFTER.

No. 173,221.

Patented Feb. 8, 1876.

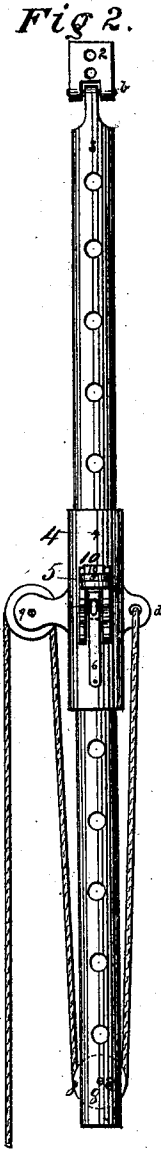
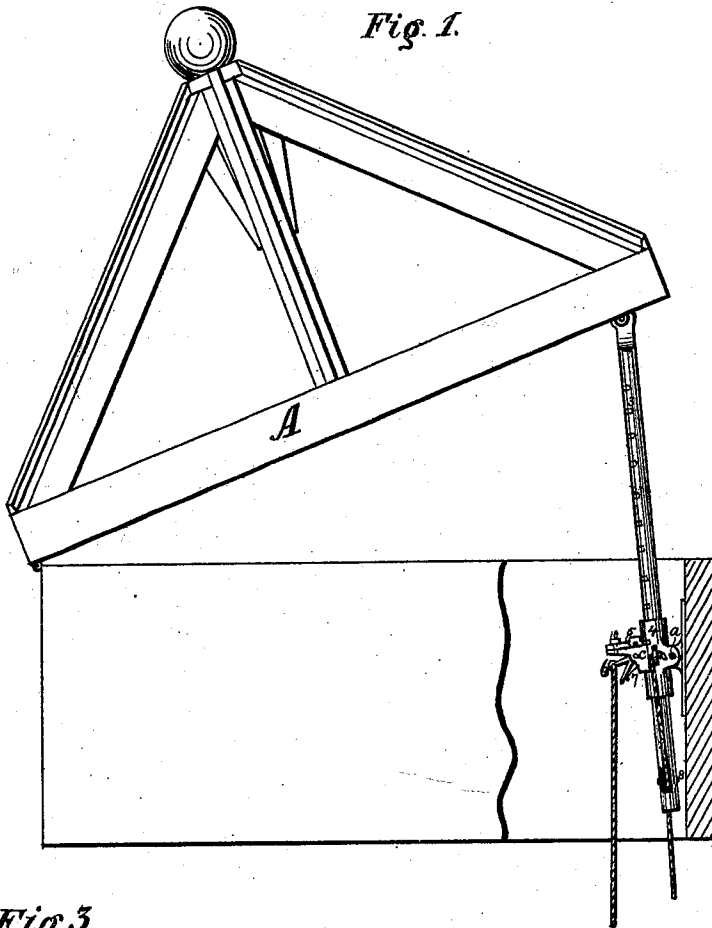


Fig 3.



Fig 4.

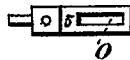
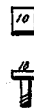


Fig 5.



Witnesses

Henry G. Miller.
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WILLIAM P. HAGADORN, OF SING SING, NEW YORK.

IMPROVEMENT IN SKYLIGHT-LIFTERS.

Specification forming part of Letters Patent No. **173,221**, dated February 8, 1876; application filed July 30, 1873.

To all whom it may concern:

Be it known that I, WILLIAM P. HAGADORN, of Sing Sing, in the county of Westchester and State of New York, have invented certain Improvements in Skylight Elevators and Fastenings, of which the following is a specification:

My invention consists of a metallic shaft or elevator, and its necessary fixtures, bolts, pulleys, springs, &c., the object being to elevate any skylight upon its hinges, and securely fasten it when closed, or at any given elevation.

Figure 1 is a side elevation of the elevator and its adjustments, as follows: 1, side or holding plate; 2, skylight-plate; 3, elevator-rod; 4, barrel; 5, bolt; 6, trigger; 7, trigger-spring; 8, elevator-pulley; 9, barrel-pulley; 10, stop-bolt. Fig. 2 is a front view of the elevating device.

A rivet at *a* secures the barrel of the elevator to the holding-plate 1, which is secured to the side of the well-hole, opposite the hinged side of the skylight.

A rivet at *b* secures the top of the elevator 3 to the skylight-plate 2, which is screwed to the under part of the skylight A.

A rivet at *c* secures the trigger 6 to the projection at the front of the barrel 4.

A stout cord, called the "pulley-cord," is now passed through the opening at *d*, Fig. 2, and secured by a knot at the end. It is next passed around the pulley at the foot of the elevator-rod 8 and over the barrel-pulley 9.

A similar cord, called the "trigger-cord," is next passed through the opening in the end of the trigger and secured by a knot.

Now, by pulling the trigger-cord the bolt 5

is withdrawn, and by pulling the pulley-cord the elevator may be raised or lowered to any desired position.

The elevator-rod 3 is a metallic tube, hinged to the skylight-plate at *b*, having a mortise at its foot, in which is inserted and held the pulley 8 and having certain perforations along its entire length for the reception of the bolt 5.

The barrel 4 is also a metallic tube, hinged to the side or holding plate at *a*, having two parallel projections on the one side, between which the pulley 9 is adjusted, a projection in front, on which the bolt 5 is secured above by the stop-bolt 10 and the trigger 6 below by the rivet *c*, and a third projection at the opposite side, in which the pulley-cord is secured at *d*, Fig. 2.

The bolt 5 is laid upon the projection at the front of the barrel, and held in position by the stop-bolt 10 passed through the slot 0.

The trigger 6 is held in its place by the rivet *c* and is operated by the trigger-cord.

I claim as my invention—

1. A skylight-lifter, consisting of the lifting-rod 3, pivoted to the sash at its upper end, and capable of free motion below, so as to follow the same in its ascent, combined with the sheave-wheels 8 and 9, and an operating cord, substantially as specified.

2. The bolt 5 and trigger 6, in combination with the notched lifting-rod 3, barrel 4, and sheave-wheels 8 and 9, substantially as specified.

WILLIAM PETER HAGADORN.

Witnesses:

HENRY G. MILLER,
FREDERICK W. LITTEN.