

(No. Model.)

O. LUND.
TRANSOM LIFTER.

No. 449,800.

Patented Apr. 7, 1891.

Fig. 1.

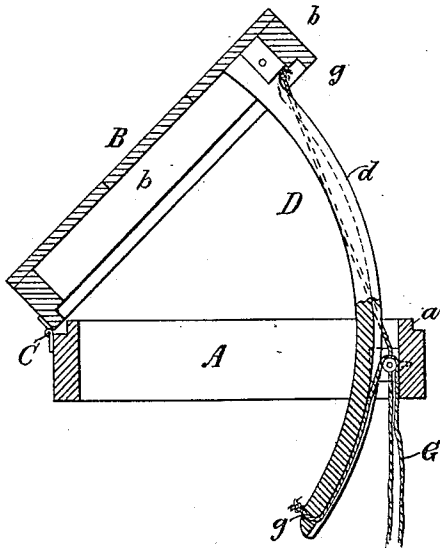


Fig. 2.

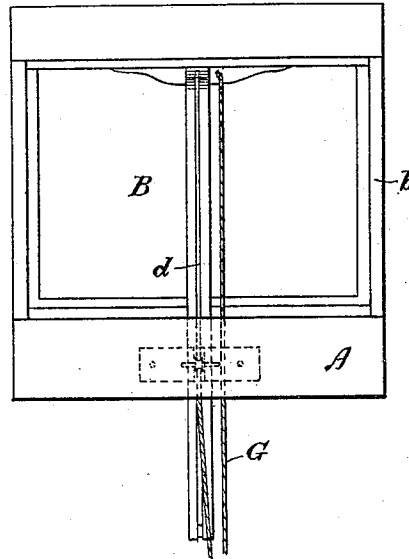
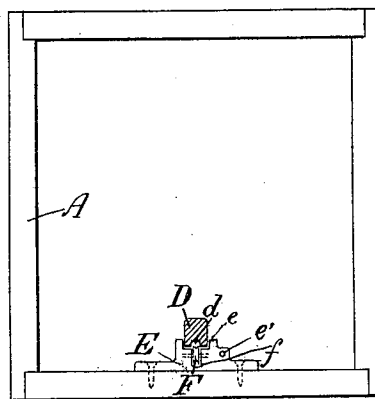


Fig. 3.



Witnesses:

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UNITED STATES PATENT OFFICE.

OSCAR LUND, OF LONG ISLAND CITY, NEW YORK.

TRANSOM-LIFTER.

SPECIFICATION forming part of Letters Patent No. 449,800, dated April 7, 1891.

Application filed November 17, 1890. Serial No. 371,647. (No model.)

To all whom it may concern:

Be it known that I, OSCAR LUND, of Long Island City, in the county of Queens and State of New York, have invented a certain new and useful Improvement in Devices for Operating Skylights, &c., of which the following is a specification.

My invention relates to an improvement in devices for operating skylights, scuttles, hatches, and the like, in which provision is made for raising and lowering the skylight, scuttle, &c., from a point below.

A practical embodiment of my invention is represented in the accompanying drawings, in which—

Figure 1 represents a vertical section through the skylight or scuttle-frame from front to rear, showing the scuttle partially open. Fig. 2 is a view of the same in front elevation; and Fig. 3 is a bottom plan view, partly in section.

A represents the skylight or scuttle-frame, here represented as of rectangular form, and is represented as provided around its upper edge with a rim *a*, over which the sash of the skylight or sides of the scuttle are intended to lap, as is usual.

B represents the skylight or top of the scuttle, and *b* the sash of the skylight or sides of the scuttle, the skylight or scuttle being shown as hinged at its back to the frame A at C. At or near its front or swinging side, opposite the hinge C, the said skylight or scuttle is provided with a depending curved bar D, fixed at its upper end to the skylight or scuttle, and sufficiently long to admit of the front of the skylight or scuttle being raised wide open without the lower end of the curved bar D passing above the frame A. Of course, if there should be no occasion for opening the skylight or scuttle to its full width, the curved bar D might be made proportionately shorter. The curve of the bar D is preferably upon the arc of a circle, so that its convex side will travel in proximity to the front of the frame A as the cover swings open. The front side of the curved bar D is provided with a groove *d*, extending longitudinally thereof and adapted to receive therein the cord or chain by which the device is operated.

On the inner side of the front of the frame A there is provided a guide and sheave-supporting block E, provided with a recess or groove *e*, adapted to receive the front of the curved bar D and prevent it from swinging laterally as it is moved up or down with the rise and fall of the skylight or scuttle. A pulley or sheave F is journaled in a recess *f* in the said block, with its face a short distance from and opposite to the bottom of the groove *d*, in the face of the curved bar D. The said block E is further provided with a perforation *e'* therethrough a short distance from the sheave F. The operating cord or chain G is secured at one end *g*, at or near the lower end of the curved bar D, and leads thence upwardly within the groove *d* in the face of the curved bar to and over the pulley or sheave F, thence downwardly to a point within convenient reach of the operator, and thence upwardly through the perforation *e'* in the block E to the upper portion of the bar D or to the front of the skylight or scuttle, where its opposite end is secured—as, for example, at *g'*.

Supposing the skylight or scuttle to be closed, it may be opened by pulling down upon the branch of the operating cord or chain, the end of which is secured to the lower end of the bar D, and when opened as far as desired, may be fastened in position by securing both parts of the cord to a suitable cleat or catch. When it is desired to close it, if its own weight be not sufficient to cause it to fall, it may be positively closed by pulling downwardly upon the branch of the operating cord or chain secured to the upper part of the bar D or to the front of the skylight or scuttle, the other branch of the operating cord or chain rendering over the pulley or sheave F, and adjusting itself within the groove *d* in the face of the bar D. When closed, it may be locked in closed adjustment by fastening the two branches of the operating cord or chain, as before.

What I claim is—

The combination, with a swinging skylight or scuttle and its support, of a curved bar depending from the swinging side or edge of the skylight or scuttle and provided with a

groove in its convex face, a bearing on the support, and an operating cord or chain secured at one end to the lower portion of the curved bar and leading thence upwardly
5 along the curve in its face to the bearing and thence downwardly within reach of the operator, the opposite end of the cord being se-

cured to the upper portion of the bar or swinging edge of the skylight or scuttle, substantially as set forth.

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Witnesses:

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