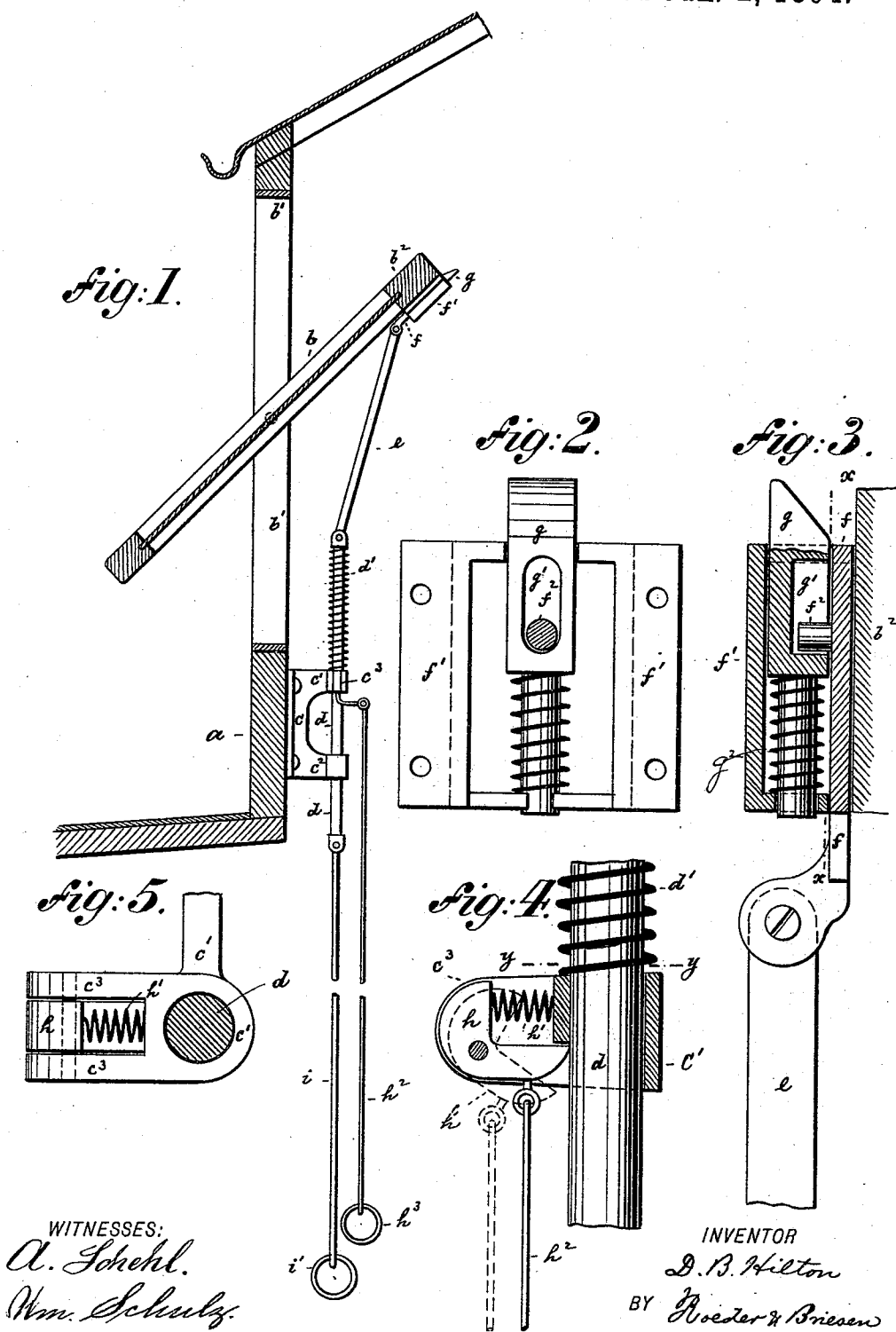


(No Model.)

D. B. HILTON.
TRANSOM LIFTER.

No. 512,028.

Patented Jan. 2, 1894.



WITNESSES:
A. Schohl.
Wm. Schulz.

INVENTOR
D. B. Hilton
BY *Roeder & Briesen*

ATTORNEYS.

UNITED STATES PATENT OFFICE.

DAWSON B. HILTON, OF BROOKLYN, NEW YORK.

TRANSOM-LIFTER.

SPECIFICATION forming part of Letters Patent No. 512,028, dated January 2, 1894.

Application filed March 14, 1893. Serial No. 465,875. (No model.)

To all whom it may concern:

Be it known that I, DAWSON B. HILTON, of Brooklyn, Kings county, New York, have invented an Improved Sash Opening and Closing Mechanism for Skylights, of which the following is a specification.

This invention relates to mechanism by means of which the sashes or ventilators in turret-skylights can be readily opened and closed.

In the accompanying drawings: Figure 1 is a vertical section through the ventilating sash of a skylight provided with my improved mechanism; Fig. 2, a section on line x, x , Fig. 3; Fig. 3, a longitudinal section through the latch; Fig. 4, an elevation partly in section of the dog h , and socket arm c' , and Fig. 5 a cross section on line y, y , Fig. 4.

The letter a , represents the curb of a skylight, while b , is the sash or ventilator pivoted within the frame b' . To the curb a , there is secured a bracket c , provided with an upper and a lower perforated arm c', c^2 . Through the arms c', c^2 , there extends a tube or rod d , surrounded above the arm c' , by a spring d' . To the upper end of rod d , there is pivoted a draw bar e , which is in turn pivoted to a slide f . This slide moves within a lock case f' , screwed to the upper sash rail b^2 . The slide f , is provided with a pin f^2 , that engages an elongated slot g' , of the latch bolt g surrounded by the coiled bolt spring g^2 . This bolt is thus adapted to be drawn down by the rods d, e , while owing to the elongated slot g' , it will also have an independent motion, which permits it to snap into its seat by the action of spring g^2 when the sash is closed. The up-

per bracket arm c' , is provided with a pair of laterally projecting lugs c^3 , between which an L-shaped dog h , is pivoted. This dog is, by a spring h' , constantly held against rod d , to prevent any up or down motion of the rod. Thus the rod and the ventilator will be maintained in any position which they are made to assume. In order to operate the dog, it is provided with a bar h^2 , having a ring h^3 , at the bottom. This ring may be reached by a hook secured to a pole. A similar bar i , having ring i' , is secured to the lower end of rod d .

To open the sash, the rod d , is drawn down, by means of the ring i' , which will undo the latch and turn the sash on its pivot. When the sash has been opened to the extent desired, the ring i' , is released, when the dog h , will at once engage rod d , and hold the same, together with the sash, in place.

To close the sash, it is only necessary to pull the dog down (dotted lines Fig. 4) when the spring d' , will throw the bars d, e , up and will swing the sash into the ventilator frame.

What I claim is—

The combination in a ventilating skylight of the following elements: a bracket c , a dog pivoted thereto, a rod d , engaged by the dog, a draw bar e , pivoted to the rod, a slide f provided with pin f^2 and pivoted to the draw bar, a bolt having an elongated slot that is engaged by the pin and a spring engaging the bolt, substantially as specified.

DAWSON B. HILTON.

Witnesses:

F. V. BRIESEN,
A. JONGHMANS.