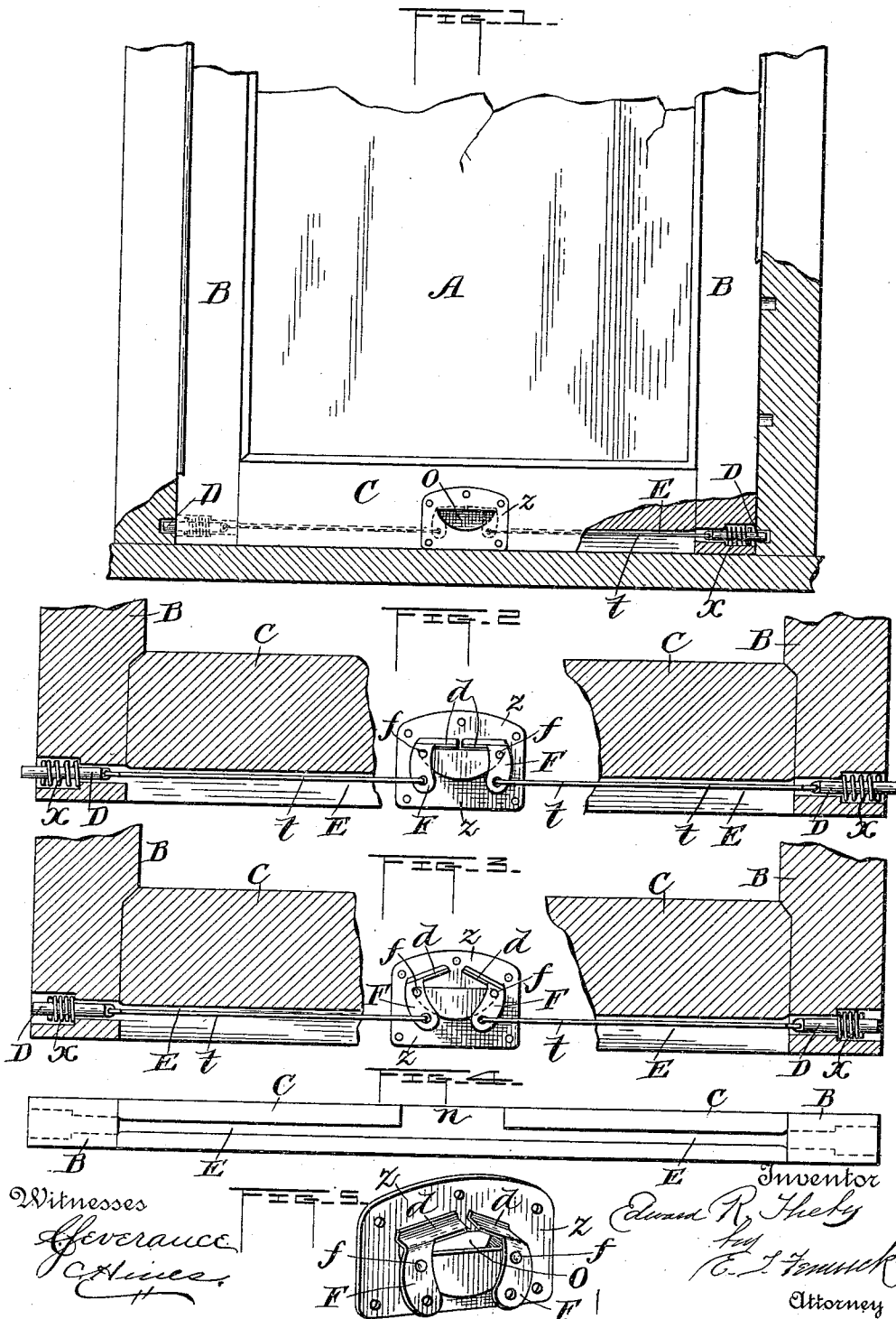


(No Model.)

E. R. THEBY.
SASH FASTENER.

No. 480,148.

Patented Aug. 2, 1892.



UNITED STATES PATENT OFFICE.

EDWARD R. THEBY, OF NEENAH, WISCONSIN.

SASH-FASTENER.

SPECIFICATION forming part of Letters Patent No. 480,148, dated August 2, 1892.

Application filed February 27, 1892. Serial No. 423,053. (No model.)

To all whom it may concern:

Be it known that I, EDWARD R. THEBY, a citizen of the United States, residing at Neenah, in the county of Winnebago and State of Wisconsin, have invented certain new and useful Improvements in Sash-Fasteners; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

My invention relates to improvements in sash-fasteners; and the object of my invention is to so provide that a person lifting the sash from the inside with one hand will withdraw the detaining-bolts at the same time.

In the accompanying drawings, Figure 1 is an inside view of the sash; Fig. 2, a rear view of the sash-fastener when locked; Fig. 3, the same when unlocked; and Fig. 4, a bottom view of the lower sash-rail, showing the manner of grooving it for admission of the fastener. Fig. 5 is a detail view of the levers which operate the bolts.

Similar letters refer to similar parts throughout the several views.

A is the glass, B the side rails, and C the bottom rail of the sash. I bore into each side rail and insert ordinary spring-bolts D D, which press into holes in the sides of the window-frame to lock the sash. A groove is provided in the bottom rail at E, through which passes a wire *t*, connecting each bolt D D with a corresponding lever F F near the center of the rail. The levers F F are pivoted at *f f*, and when the finger-plates *d d* are raised operate to pull the bolts inward from the window-frame to release the sash, so that it may be raised. An opening is cut into the bottom

sash-rail at *n*, over which is placed the plate *z*, provided with an opening O, leading to the finger-plates *d d*.

When desiring to raise the sash, I insert two fingers within the opening O and raise the finger-plates *d d*, which pull the bolts D D from the window-frame, at the same time compressing the springs *x x*. Then by an upward pull with the hand in the same position I easily raise the sash. When released, the springs *x x* press the bolts outward into the holes in the window-frame.

The groove E in the bottom rail may be easily made before the sash is set together or afterward.

I bore holes into the sides of the window-frame at different heights, into which the bolts slide to retain the window at different positions when raised.

If desired, a single bolt D need only be used; but I deem it of superior advantage to have a bolt on each side; therefore

What I claim as my invention, and desire to secure by Letters Patent, is—

In combination with a vertically-sliding window-sash having a finger-access aperture at its front, a sash-fastener consisting of one or more bolts adapted for entering the casing at the side and connected with one or more angular levers recessed within the bottom rail at the center to operate the same, the said levers being constructed and arranged so as to be operated directly by the application of the fingers through the aperture directly to their free ends while the hand is in position to raise the sash, substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

EDWARD R. THEBY.

Witnesses:

EDWIN CLIFFORD,
CHARLES SCHMITT.