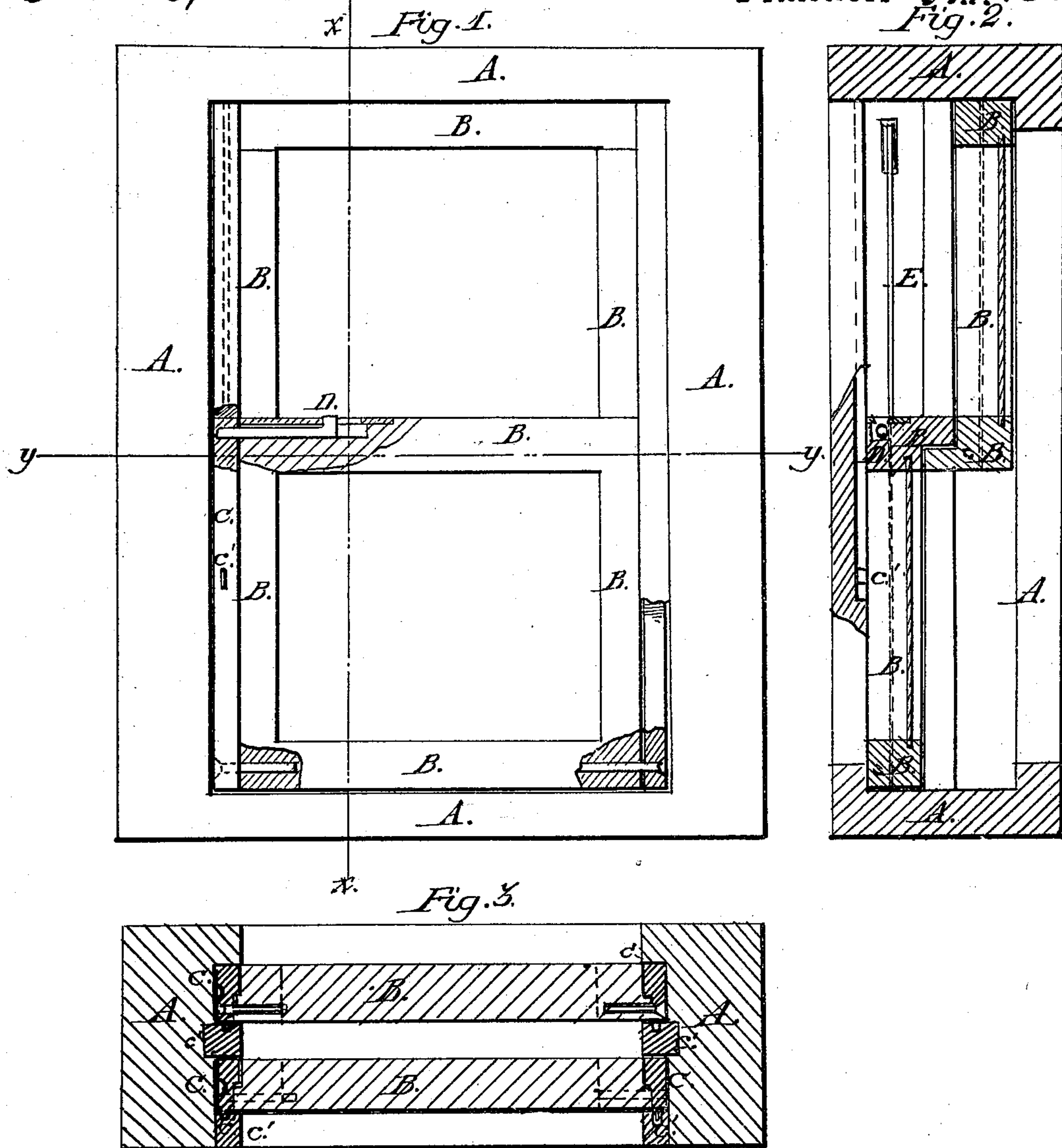


Perkins, Bogert & Lowell,

Window Sash.

No. 85,611.

Patented Jan. 5, 1869.



Witnesses:
Wm A. Morgan.
G. C. Cotton.

Inventor:
M. R. Perkins
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per J. F. Lowell
Atty.

United States Patent Office.

M. R. PERKINS, OF PORTSMOUTH, NEW HAMPSHIRE, J. V. BOGERT, OF NEW YORK,
N. Y., AND J. F. LOWELL, OF BOSTON, MASSACHUSETTS.

Letters Patent No. 85,611, dated January 5, 1869.

IMPROVED WINDOW-SASH.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that we, M. R. PERKINS, of Portsmouth, in the county of Rockingham, and State of New Hampshire, J. V. BOGERT, of New York, in the county of New York, and State of New York, and J. F. LOWELL, of Boston, in the county of Suffolk, and State of Massachusetts, have invented a new and useful Improvement in Window-Sashes; and we do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a front view of a window, to which our improvement has been attached, parts being broken away to show the construction.

Figure 2 is a vertical section of the same, taken through the line *xx*, fig. 1, part being broken away to show the construction.

Figure 3 is a horizontal section of the same, taken through the line *yy*, fig. 1.

Similar letters of reference indicate like parts.

Our invention has for its object to improve the construction of window-sashes, so that they may be conveniently turned down inward for convenience in washing them, and which shall, at the same time, in nowise disfigure the window.

It consists in the construction and arrangement of parts, as will be hereinafter more fully described.

A is the window-casing, which is made in the usual manner, and which is provided with stops, to form grooves for the sashes to move up and down in.

B are the main parts of the sashes, which are made of such a size as to pass in and out between the stops.

The side edges of the sash-frames, at or near their lower ends, are pivoted to slats or bars, C, which enter and work up and down in the grooves in the casing A.

The upper ends of the sashes B are connected with the upper parts of the bars C by sliding or spring-bolts, D, or by other convenient means, so that the upper parts of the sashes may be readily disconnected from the said bars, to allow the said sashes to be swung in-

ward upon their pivots, so that they may be conveniently washed.

The bars C should be provided with stop-pins or guides, *c*, to keep them in place in their grooves in the sash-stops, when the sashes are swung inward, as shown in figs. 1, 2, and 3.

If desired, the contiguous faces of the sashes B and bars C may be made with shoulders, as shown in fig. 3, for convenience in attaching the spring-bolts or other fastenings, and also to form a closer joint.

If desired, the middle stop may project a little further from the casing than the inner stop, and the outer stop a little further than the middle stop, so that said projecting stops may slightly overlap the joints between the sashes B and the bars C, making the window a little closer.

The weight-cords E are attached to the bars C, and pass over guide-pulleys attached to the upper part of the casing, in the ordinary manner.

We are aware of the patent granted to O. E. H. Sturcken, March 31, 1868, but we claim nothing therein shown as our invention.

Having thus described our invention,

We claim as new, and desire to secure by Letters Patent—

The sashes B, pivoted at their lower ends to the sliding bars C, and adapted to swing inward upon said pivots by releasing the catches D, the sliding bars being held to the stops by the slots in the latter, and the guide-pins *c*, all arranged as described, for the purpose specified.

The above specification of our invention signed by us, this 13th day of June, and 18th day of June, 1868.

M. R. PERKINS.
J. V. BOGERT.
J. F. LOWELL.

Witnesses for J. V. BOGERT:

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