

G. HAMPE & A. SCHALLERT.
SHUTTERS.

No. 176,858

Patented May 2, 1876.

x Fig. 1

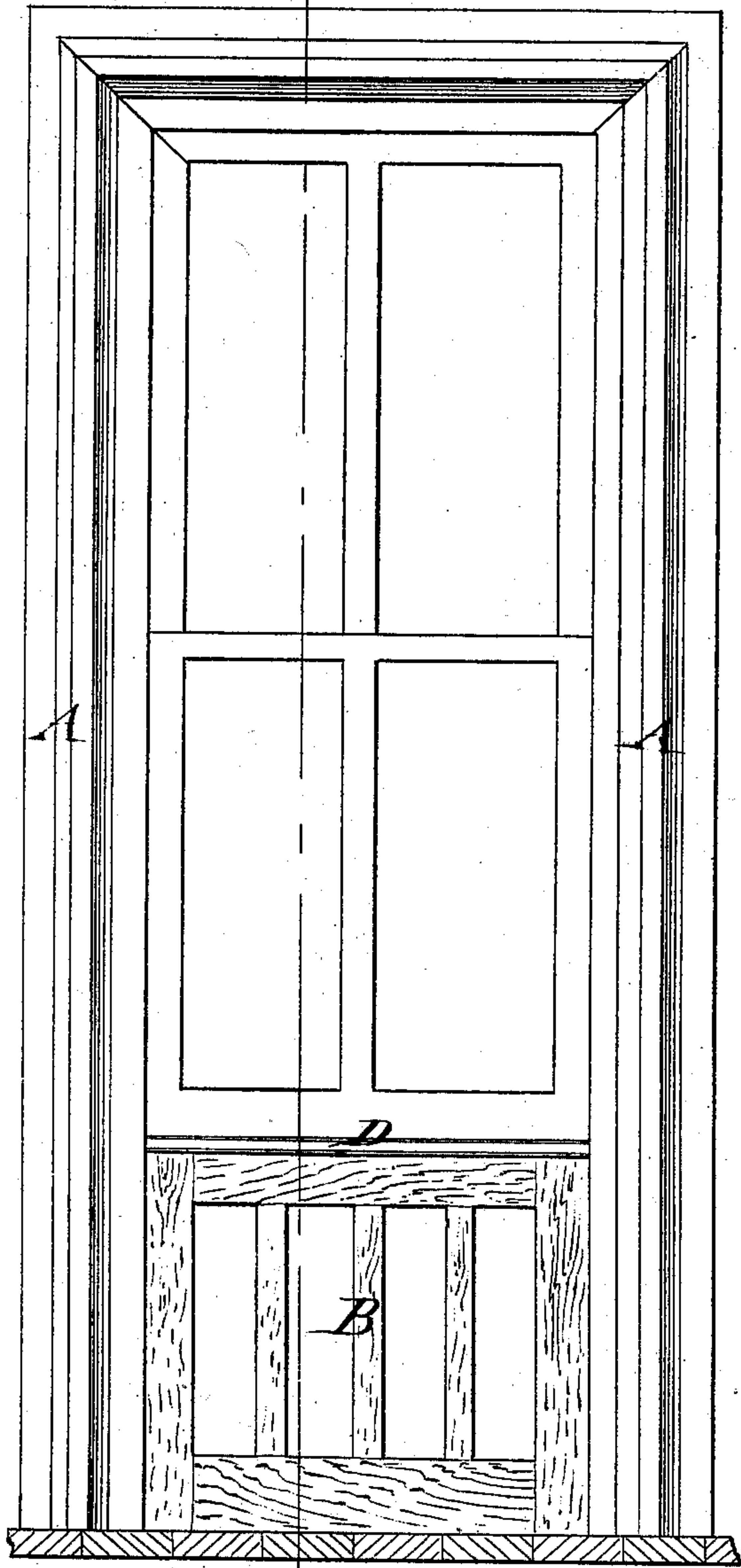
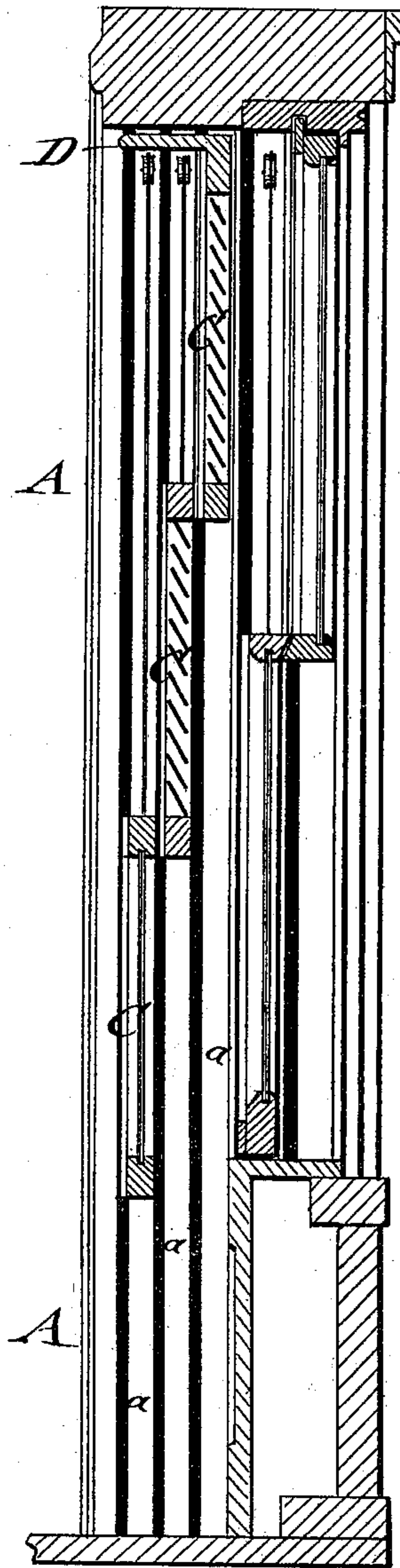


Fig. 2



x

WITNESSES:

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UNITED STATES PATENT OFFICE

GUSTAV HAMPE AND ADOLF SCHALLERT, OF ST. LOUIS, MISSOURI.

IMPROVEMENT IN SHUTTERS.

Specification forming part of Letters Patent No. **176,858**, dated May 2, 1876; application filed March 21, 1876.

To all whom it may concern:

Be it known that we, GUSTAV HAMPE and ADOLF SCHALLERT, of St. Louis, in the county of St. Louis, and State of Missouri, have invented a new and Improved Shutter, of which the following is a specification:

In the accompanying drawing, Figure 1 shows a window with our improved shutter let down below the window-sill; and Fig. 2 is a vertical transverse section of the same on line *x x*, Fig. 1, the shutters in position to close the window.

Similar letters of reference indicate corresponding parts.

Our invention relates to improved window-shutters, that may be conveniently stored away in small and compact space at the lower part of the window, below the window-sill, and readily raised to close the window partly or entirely, being manufactured in cheaper manner, and operated with greater facility, than the interior sectional shutters at present in use.

The invention consists of a shutter made in sections, that slide in guides of the window-casing, and form a covered panel in front of the window-sill.

In the drawing, A represents a window-casing, arranged with our improved sectional shutter B. The window-casing A has at the inside of the window as many guides or grooves *a* as there are shutter-sections, the guides *a* running from the top of the window down to the floor.

The shutter is preferably made of three sections, C; but two only, or more than three sections, may be employed, according to the height of the window and the distance of the sill from the floor.

Each shutter-section C slides up and down by means of cords, pulleys, and weights, or without the same in the manner of window-

sashes, the weight-box of the same being extended to the full additional width required for the shutter. The sliding shutter-sections are made equal in height, or nearly so, to the distance of the sill from the floor, and are to be stored in front of the window-panel below the sill.

The innermost shutter-section is made in the shape of a panel, as shown in Fig. 1, without slats, so as to form, when the shutter is opened and all the sections stored back of the same, a cover or inclosure for the same. The uppermost shutter-section C is arranged at the upper edge with a horizontal board, D, that extends over the other shutter-section in front, and forms the sill or top inclosure of the same.

The window may be readily closed in part, or throughout, by raising one, two, or all the sections, as desired.

When the shutter is entirely opened the sections are all stored away back of the innermost or panel shutter, at the lower part of the window in a neat and convenient manner.

They may be manufactured cheaper than the folding inside shutters, as no hinges are required, and admit the easier and quicker opening and closing than the outside or inside shutters hitherto in use.

Having thus described our invention, we claim as new and desire to secure by Letters Patent—

The combination of the innermost shutter-section, made in the form of a panel, with the horizontal top board or sill, of the outermost shutter-section, to inclose the sections in stored position, substantially as described.

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Witnesses:

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