R. W. Clough,

Sash Fastener.

No. 41,057. Patented Jan. 5, 1864.

Fig: 2.

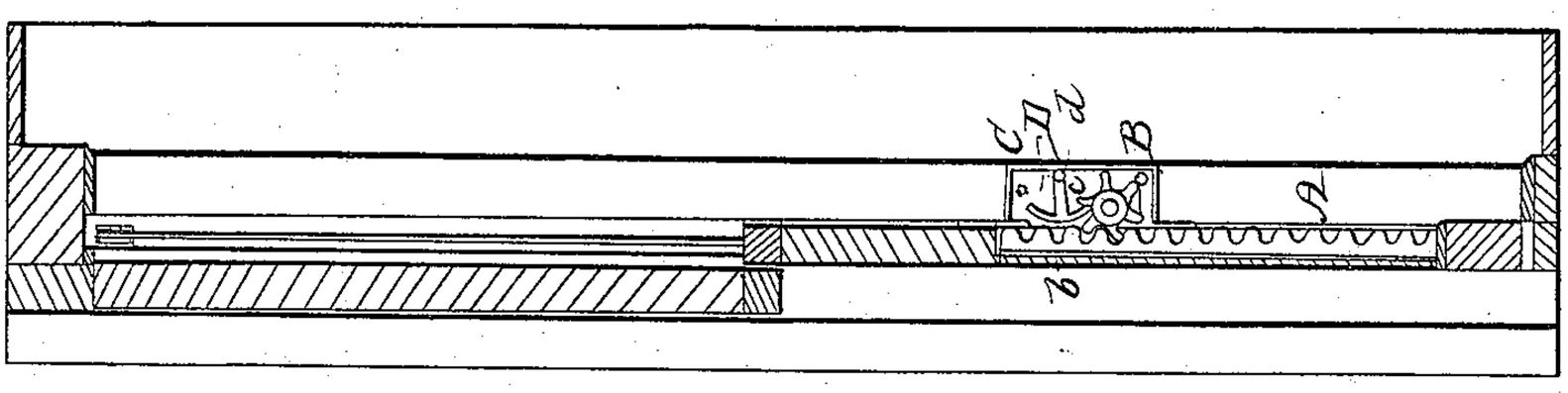


Fig: 3.

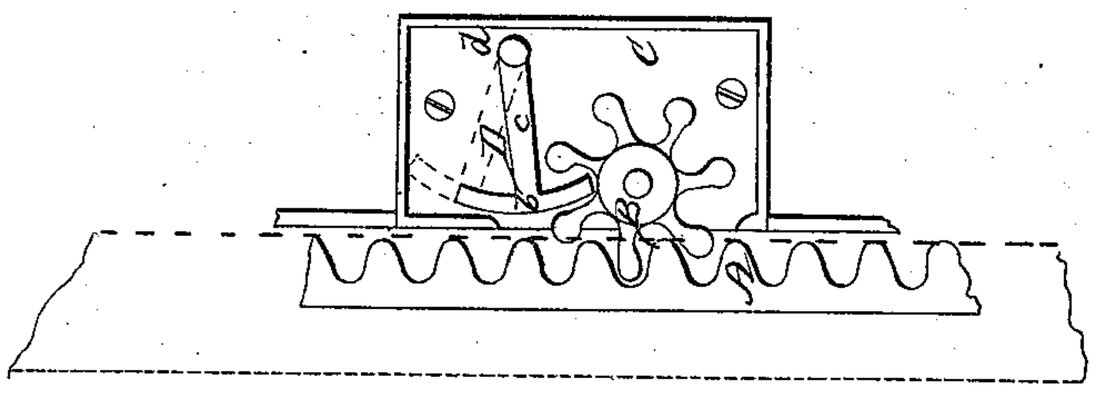
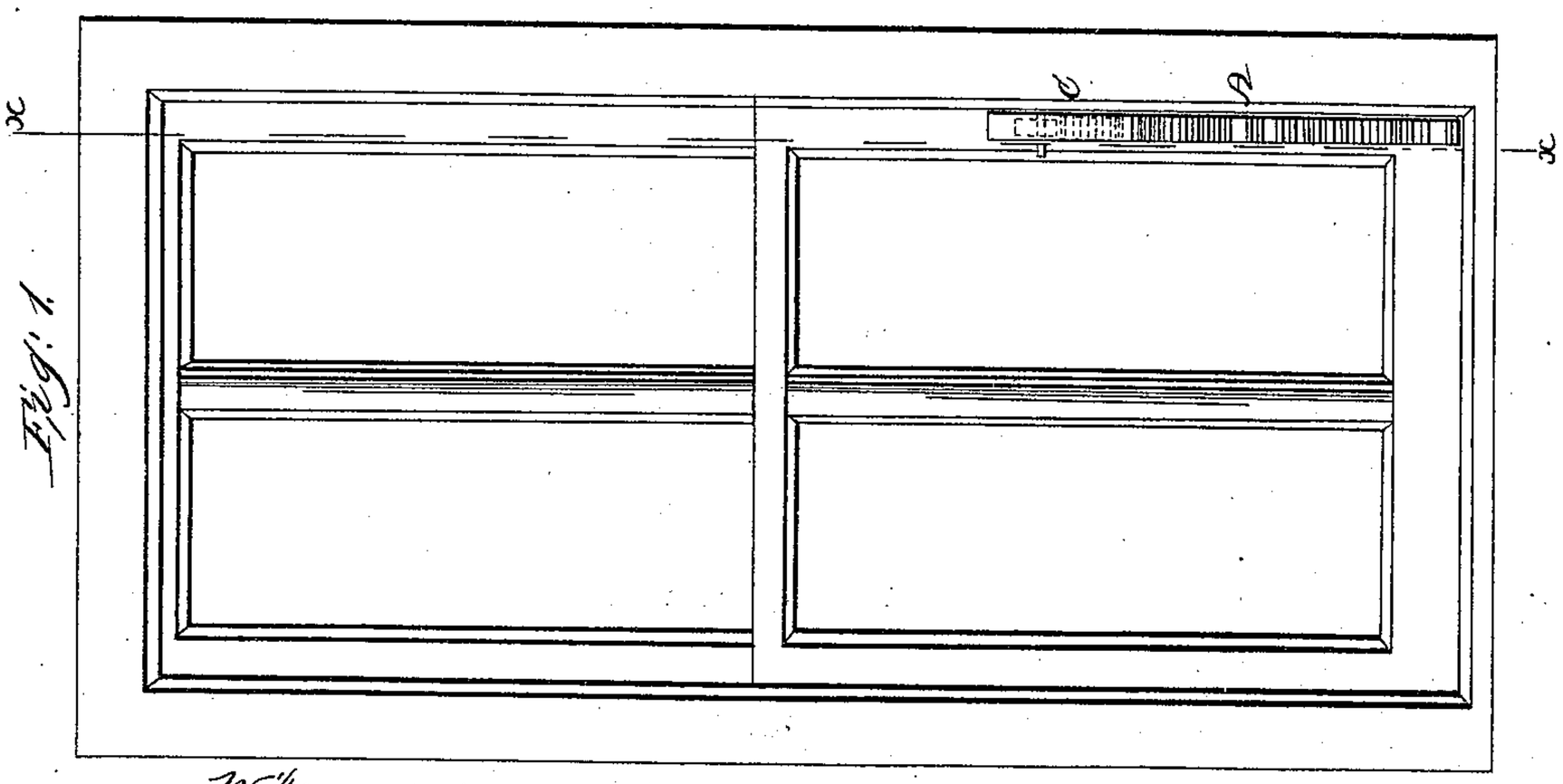


Fig: 1.



Witnesses:

Thos. L. Douglas

Geo. W. Reed

Inventor:

R. W. Clough

UNITED STATES PATENT OFFICE.

RICHARD W. CLOUGH, OF WILLIAMSBURG, NEW YORK.

IMPROVEMENT IN SASH-FASTENINGS.

Specification forming part of Letters Patent No. **41,057**, dated January 5, 1864.

To all whom it may concern:

Be it known that I, RICHARD W. CLOUGH, of Williamsburg, in the county of Kings and State of New York, have invented a new and Improved Sash-Stop; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 is a front or face view of a window having my invention applied to its lowest sash; Fig. 2, a vertical section of the same, taken in the line *x x*, Fig. 1; Fig. 3, an enlarged section of the sash, taken in the same line, *x x*, as Fig. 2.

Similar letters of reference indicate corresponding parts in the several figures.

To enable those skilled in the art to fully understand and construct my invention I will proceed to describe it.

A represents a rack, which may be of cast-iron, and which is secured to the front side of one of the stiles of the lower sash; and B is a pinion which is fitted in a box, C, the latter being secured to the casing of the window or in a bead connected thereto and in such a position relatively with the rack A that the pinion B may gear into the rack.

Within the pinion-box C there is placed a pawl, D, which is formed of a curved or segment bar, *b*, at the end of a radius-bar, *c*, which works on a pivot or center at *d*. This pawl may be raised or lowered, so as to engage with or be free from the pinion B.

From the above description it will be seen that when the pawl D is not engaged with the pinion B, and the latter left free to rotate, the sash may be raised or lowered, and that the sash may be retained at any desired height by lowering the pawl so that it may engage with the pinion and prevent it from rotating.

I would remark that the rack A is attached to the outer edge of the stile of the upper sash, and the pinion-box C inserted in the casing opposite the rack. This arrangement is necessary in order that the parts may not interfere with the raising and lowering of the lower sash.

I would further remark that the rack A of the lower sash may be behind the side bead of the casing, and the pinion-box C inserted in said bead. This arrangement would conceal the rack.

I do not claim, broadly, the use of a rack and pinion; but,

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

The construction and arrangement of the pawl D, in the manner herein shown and described, when operating with the pinion B and rack A, as set forth, so that said pawl D will be confined within the box C, and will fall and lock the pinion by gravity.

RICHARD W. CLOUGH.

Witnesses:

THOS. S. J. DOUGLAS,

GEO. W. REED.