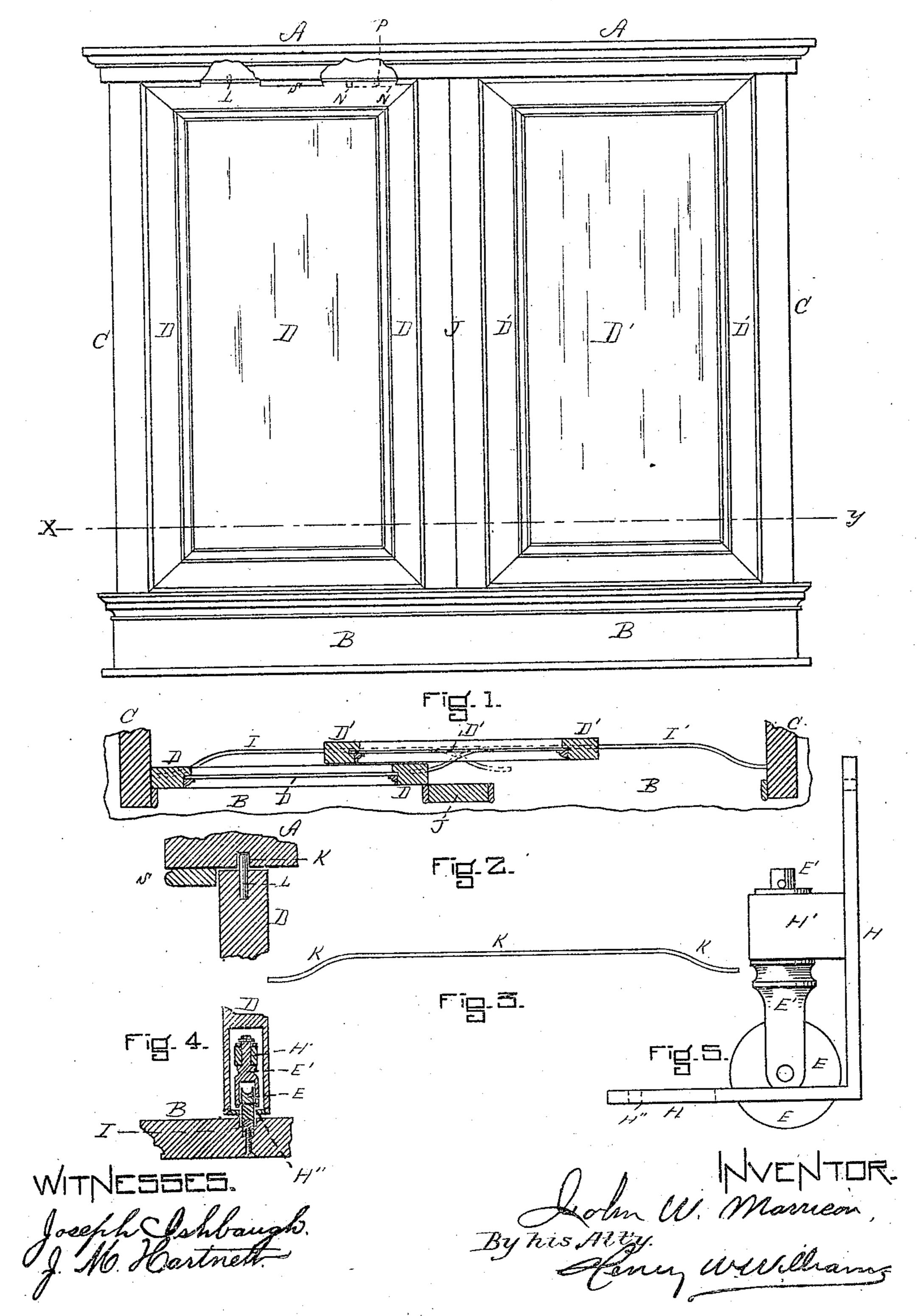
## J. W. MORRISON.

SLIDING SASH FOR BOOK CASES, &c.

No. 304,222.

Patented Aug. 26, 1884.



## United States Patent Office.

JOHN W. MORRISON, OF BOSTON, MASSACHUSETTS.

## SLIDING SASH FOR BOOK-CASES, &c.

SPECIFICATION forming part of Letters Patent No. 304,222, dated August 26, 1884.

Application filed April 10, 1884. (No model.)

To all whom it may concern:

Be it known that I, John W. Morrison, of Boston, in the county of Suffolk and State of Massachusetts, have invented new and useful 5 Improvements in Sliding Sashes for Book-Cases, &c., of which the following is a specification.

One of the objections to sliding sashes as at present constructed is that an unfinished ap-10 pearance is produced at the meeting-point of the two sashes, when they are closed, owing to the fact that as they are necessarily adapted to slide by each other on parallel tracks they are not flush or on the same line at said point, 15 but one sash overlaps the other.

It is the object of this improvement to allow the sashes to slide by each other, and yet when closed to produce a finished front by being flush with each other, or on the same line.

In the accompanying drawings, in which similar letters of reference indicate like parts, Figure 1 is a front elevation of a book-case provided with a pair of sliding sashes embodying my invention, small portions being repre-25 sented as broken out for the better illustration of the improvement. Fig. 2 is a horizontal section on line x y, Fig. 1. Fig. 3 is a plan of the guiding-groove in the inner side of the top of the case. Fig. 4 is a cross vertical sec-30 tion in detail of upper and lower portions of the sash. Fig. 5 is a side elevation of one of the wheels detached.

A represents the upper portion or top, B the lower portion or base, and C the sides, of 35 a case for containing books or other articles: and DD' are the horizontaily sliding sashes or doors. Each sliding door is provided at each end of its lower portion with a grooved wheel or caster, E, hung in the stock E', which 40 is swiveled or adapted to rotate in the bracket H', extending from the angle-plate H, whose lever or horizontal portion is provided with an opening or slot, H", (see Figs. 4 and 5,) made broad enough to allow a limited amount | ing sashes or doors not only in book-cases, 45 of play or slight turning in the wheel E by means of the swiveled stock E', so that the else it may be of service. wheel can turn on a curved track. The plates are secured to the bottom corners of the sashes, and the wheels rest on the tracks I I', and by 50 being swiveled as above described adapt 1. The combination, with a sliding sash, of 100

themselves to the curves in said tracks. The ends of each of the two tracks I and I' are at points which would be a portion of a single straight line parallel with the front of the case, but each track bends backward from such 55 points at each end, as shown in Fig. 2. Each sash, when closed, rests upon both tracks-that is to say, its opposite wheels rest one on each track. For example, the supportingwheels of the sash D, when closed, rest upon 60 the forward left ends of the tracks I I', (see Fig. 2,) and the supporting-wheels of sash D', when closed, rest upon the forward right ends of the tracks I I'. Now, when the sash D is to be opened or slid by the sash D, its right 65 wheel runs back upon the track I' and its left wheel on the track I, and the rear portions of said tracks being on the same line, the sash D' is readily slid behind the sash D. It will thus be seen that when one of the sashes is open it 70 is parallel with the closed sash, while when both sashes are closed they are on the same. line and flush with each other. A central post, J, covers the vertical space which would otherwise be left between the inner ends of 75 the two sashes. A horizontal groove, K, of the shape shown in Fig. 3, is made in the under side of the top A, and into this groove project vertical pins L, extending from the upper edges of the sashes. The outer sides of 80 this groove K, it will be observed, correspond with the outer ends of the tracks I I'.

Corresponding with the inner ends of the tracks I I' are grooves N, made in the upper edges of the sashes, into which extend pins P, 85 secured to the top A. Thus, while the sashes are being opened and closed by running on the track, as above described, they are kept vertical and steady by means of the pins L P in the grooves K N. The entrance or mouth oo of the groove N may be easily hidden by a suitable bead, S.

This improvement may be applied to slidbut in pantries, china-closets, and wherever 95

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

a base provided with the curved track I of the shape shown and described, substantially as

and for the purpose described.

2. The combination of the sliding sashes D D', provided with the swiveled wheels or casters E, and the base B, provided with the curved tracks I I', substantially as and for the purpose set forth.

3. The combination of the base B, provided to with the curved tracks I I', the sliding sash D, provided with pin L, and groove N, and the top A, provided with a pin, P, and groove

K, substantially as and for the purpose described.

4. The combination, with a sliding sash, of 15 the angle-plate H, provided with the bracket H'and opening H", and the wheel E, supported by the stock E', swiveled in said bracket, substantially as and for the purpose set forth.

JOHN W. MORRISON.

Witnesses:

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JOSEPH ISHBAUGH.