



# United States Patent Office.

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NEW YORK, N. Y.

*Letters Patent No. 90,193, dated May 18, 1869.*

## IMPROVED SLIDING DOOR

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, EDMOND PRUD'HOMME and PANTALÉON MOSES LEPROHON, of the city, county, and State of New York, have invented a new and useful Improvement in Sliding Doors; 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 represents a face view, partly in section, of our improvement in sliding door.

Figure 2 is an edge view, partly in section, of the same.

Similar letters of reference indicate corresponding parts.

This invention relates to a new means for retaining sliding doors between their guides, even if they should shrink or settle irregularly or evenly; and has for its object to overcome the frequent annoyance resulting from the working of the upper dowel-pins out of the groove, or track provided for them.

The invention consists in providing rollers on the upper edges of sliding doors, said rollers being hung in frames or bars, that rest on springs, provided on or in the door, so that by means of these springs, the rollers are constantly held up against the upper frame, and retained in the groove provided for them.

If the door or frame should shrink ever so much, the upper rollers will always be retained in their grooves, or on their tracks, and the door will consequently always be properly guided.

A, in the drawing, represents a sliding door;  
B is the side frame, between which it moves;  
C is the rail, on which it rests; and  
D is the upper frame or lintel.

Rollers *a a* are arranged on the lower edge of the door, to travel on the rail C.

*b b* are rollers, hung, with their axles *c*, in the bifurcated upper ends of metallic bars E, which bars are, with their shanks *d*, fitted into mortises, provided in the upper edge of the door.

Springs *e e* are arranged in these mortises, to support the bars E. By these springs the rollers *b* are held constantly against the lintel D, in the groove, or on the track provided for them, and if the door or frame should shrink or settle, the rollers will adjust themselves up or down as they travel along under the lintel.

The door can thus never work itself laterally out of the frame.

Having thus described our invention,

What we claim as new, and desire to secure by Letters Patent, is—

The rollers *b*, supported upon the springs *e*, in the upper end of a sliding door, substantially as described, for the purpose specified.

EDMOND PRUD'HOMME.  
PANTALÉON M. LEPROHON.

Witnesses:

FRANK BLOCKLEY,  
ALEX. F. ROBERTS.