(No Model.)

W. H. PAULDING.

WINDOW SHADE.

No. 281,128. Patented July 10, 1883.

Fig. 1.

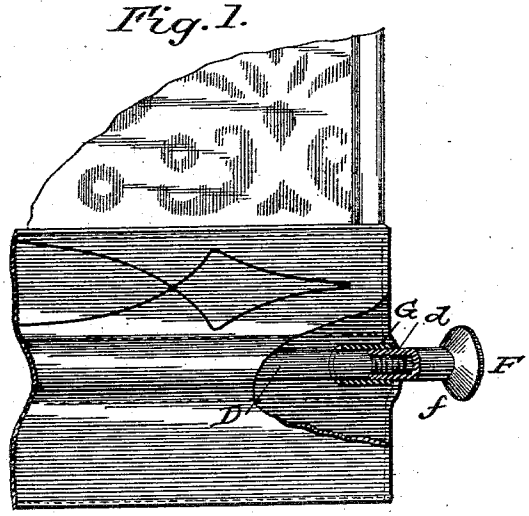


Fig. 2.

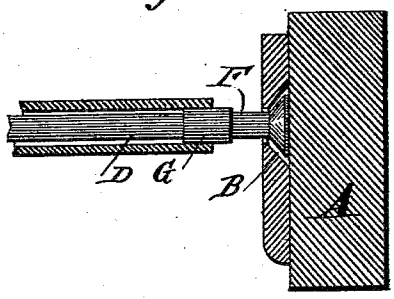


Fig. 3.

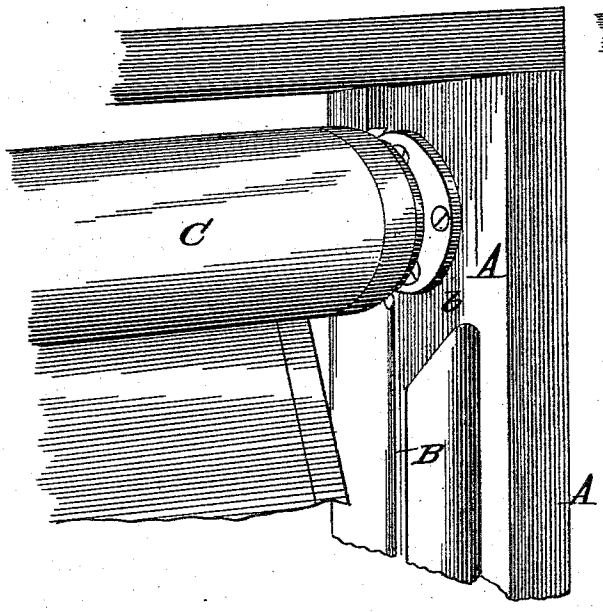
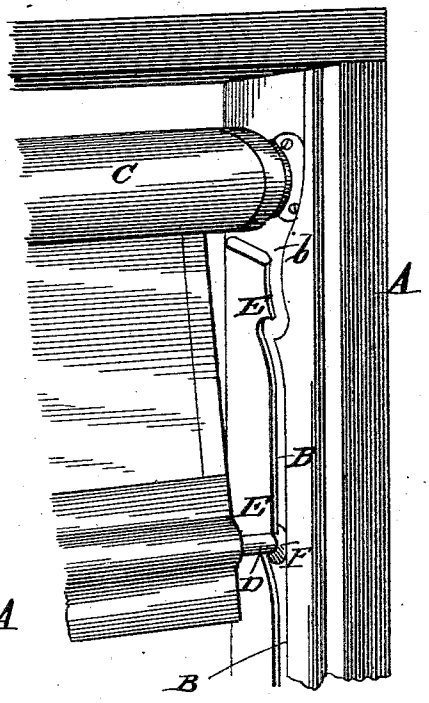


Fig. 4.



WITNESSES

Fred. G. Dieterich

Arthur L. Morrell.

INVENTOR:

William H. Paulding

By Louis Bagger & Co.

Attorneys.

N. PETERS, Photo-Lithographer, Washington, D. C.

UNITED STATES PATENT OFFICE.

WILLIAM HENRY PAULDING, OF PEEKSKILL, NEW YORK.

WINDOW-SHADE.

SPECIFICATION forming part of Letters Patent No. 281,128, dated July 10, 1883.

Application filed May 4, 1883. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM H. PAULDING, a citizen of the United States, and a resident of Peekskill, in the county of Westchester and State of New York, have invented certain new and useful Improvements in Window-Shades; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification, and in which—

Figure 1 represents the lower part of a window-shade provided with my improvement, showing one of the ends of the guide-rods in section. Fig. 2 is a cross-section through the slotted window-casing. Fig. 3 is a perspective view of one side of the casing with part of the shade or curtain; and Fig. 4 is a similar view, showing a modified construction of the same.

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

My invention has relation to the fixtures for window-shades or roller-curtains, and is more especially adapted for railway-car windows.

It consists in providing the shade or curtain with a peculiarly-constructed guide-rod at its lower end, having adjustable beveled heads at its ends, which work in dovetailed grooves or ways in the sides of the window-casing, substantially as and for the purpose hereinafter more fully described and claimed.

In the accompanying drawings, A denotes the sides of the window-casing, which are grooved longitudinally, as shown at B, said grooves being dovetailed in cross-section, as clearly shown in Fig. 2 of the drawings. The curtain is attached at its upper end to a spring-roller, C, which may have stops or not, as may be desired. When used with stops, the groove B is made straight, as shown in Fig. 3; but when the roller is used without the stops, one side of the groove should be notched or recessed to form ratchets or catches E, adapted to engage the projecting ends of rod D, at the lower end of the curtain, in substantially the same manner as in the curtain-fixture for which Letters Patent of the United States No. 269,703 were granted to me on the 26th day of December, 1882. This construction is shown in Fig. 4 of the drawings. The ends of rod D, which is suitably fastened in the lower end of the shade, have screw-threaded tenons *d*, upon which are screwed the heads F, which are beveled at *f* to fit the dovetailed ways B. This construction permits of the adjustment of the guide-heads F so as to fit snugly in their dovetailed ways, which not only prevents the lower end of the curtain from flapping inside and out when the train is in motion, but also prevents it from moving sidewise within the frame or casing, so that it will at all times move true up and down. The upper part of the casing is cut away on one side of the groove B to form a recess, *b*, communicating with said groove, through which the beveled and adjustable heads F may be inserted into the dovetailed ways or grooves B.

It is obvious that while this improvement is contemplated more particularly for the windows of railway-cars, it may be used with advantage also for the windows of dwellings or other buildings; and in order to conceal the joint between the screw-threaded ends of rod D and its adjustable heads, when these are screwed out from the rod to properly fit the ways B, a sleeve or collar of thin metal may be placed upon rod D and the adjacent ends of the adjustable heads, as I have shown at G in Figs. 1 and 2.

Having thus described my invention, I claim and desire to secure by Letters Patent of the United States—

1. The combination of the spring-roller C, curtain, guide-rod D, having extensible beveled heads F, and casing A, provided with dovetailed grooves or ways B, adapted to fit said heads, substantially as and for the purpose herein shown and set forth.

2. The combination of the spring-roller C, curtain, guide-rod D, extensible beveled heads F, collars G, and casing A, provided with dovetailed grooves or ways B, adapted to fit the adjustable heads F, substantially as and for the purpose herein shown and set forth.

In testimony that I claim the foregoing as my own I have hereunto affixed my signature in presence of two witnesses.

WILLIAM HENRY PAULDING.

Witnesses:

ANDREW A. POTTIER,

P. E. SMITH.