H. LULL.

Curtain-Cord Fasteners.

No. 139,404. Patented May 27, 1873.

Fig. 2.

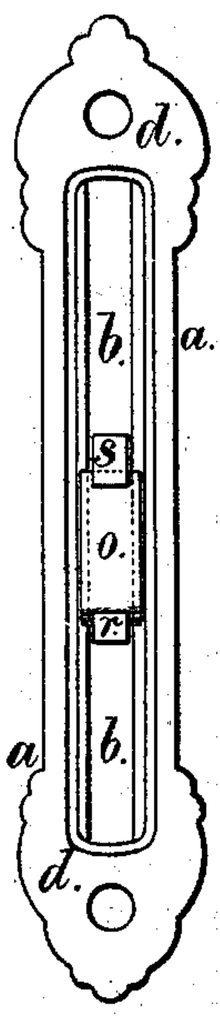


Fig. 1.

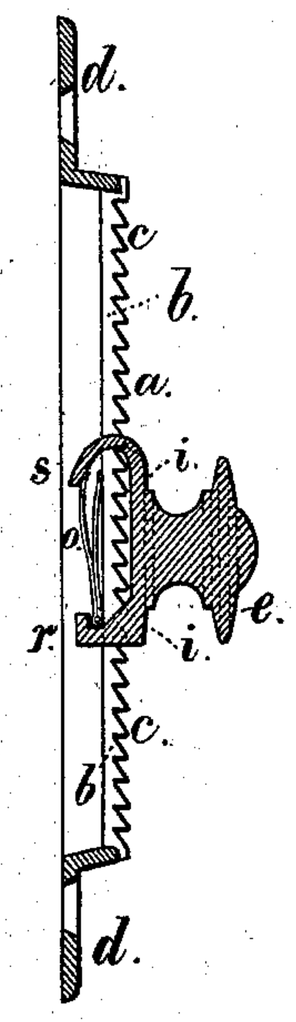


Fig. 3.

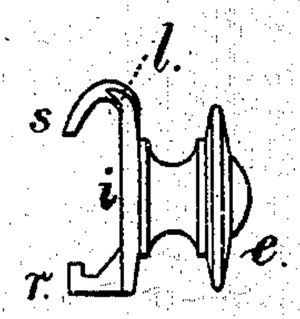
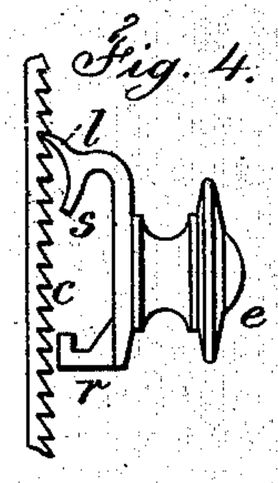


Fig. 4.



Inventor,

Witnesses

Chas. F. Smith,
Geo. S. Pinckney

Harvey Lull.

per Lemuel W. Serrell

atty.

UNITED STATES PATENT OFFICE.

HARVEY LULL, OF HOBOKEN, NEW JERSEY.

IMPROVEMENT IN CURTAIN-CORD FASTENERS.

Specification forming part of Letters Patent No. **139,404**, dated May 27, 1873; application filed April 15, 1873.

To all whom it may concern:

Be it known that I, HARVEY LULL, of Hoboken, in the county of Hudson and State of New Jersey, have invented an Improvement in Shade-Racks for Windows, of which the following is a specification:

Cord-tighteners for curtain-fixtures have been made with teeth upon the surface at the edges of the slide, and the pulley and slide have been pressed to the teeth by a spring formed as part of the slide, as seen in my patent No. 118,253. My present invention consists in a cord, knob, and slide having spring-holding fingers that pass through the mortise of the rack and receive a folded spring acting within the rack to press the pawl-tooth into the rack-teeth to hold the same at any position to which it may be moved, and the cord can be slackened up by simply drawing the pawl out of the teeth by moving the pulley or knob and slide.

In the drawing, Figure 1 is a vertical section of the rack complete. Fig. 2 is a rear elevation, and Fig. 3 is a separate view, of the sliding cord-knob and spring-holding fingers.

The rack *a* is made with an opening, *b*, longitudinally, with rack-teeth *c* and with the end pieces *d* for nails or screws. The knob *e* is made for the cord to pass around and upon the plate *i*, to which the knob *e* is applied. I cast the projecting fingers *r s* that pass through the slot *b* and receive the folded spring *o* that is confined between said fingers, and acts against the back of the rack *a* and within the recess thereof to draw the pawl-tooth *l* into the rack-teeth *c*, and hold the cord-knob at any point to which it may be moved.

The tooth *l* is pressed to the rack-teeth by the strain of the cord, and when the pawl-tooth *l* is to be disconnected from the rack the same is effected by drawing the knob forward and compressing the spring sufficiently to allow of the knob and parts connected being moved endwise to slacken the cord.

If the rack-teeth are at the back of the slide the pawl-tooth will be at the end of the finger *s*, the slide being closed at the back, with the rack-teeth made in the usual manner. This modification is illustrated in Fig. 4.

I claim as my invention—

The folded spring *o* applied between the fingers *r s* that project from the plate of the cord-knob through the slot in the slide, in combination with the pawl-tooth *l* and ratchet-teeth *c*, substantially as specified.

Signed by me this 10th day of April, A. D. 1873.

HARVEY LULL.

Witnesses:
GEO. T. PINCKNEY,
CHAS. H. SMITH.