J. C. Reed,

Blind Stop

No. 51,268. Patented Nov. 28, 1865.

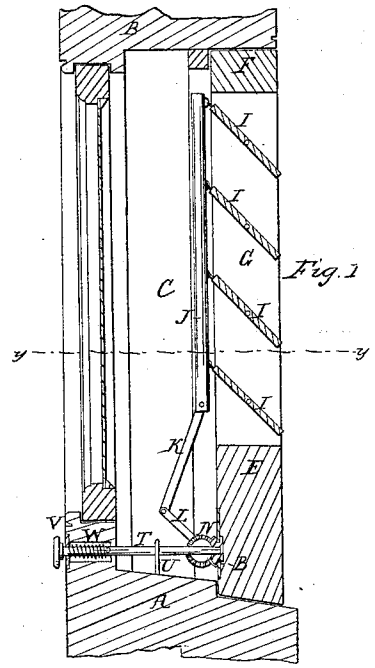


Fig. 1

Fig. 2

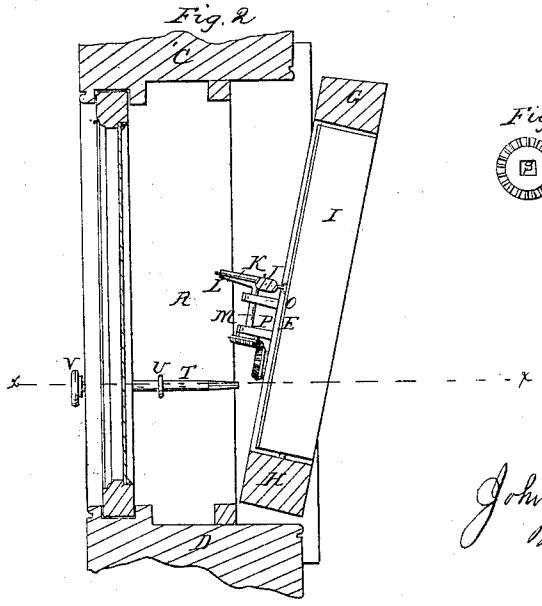


Fig. 3

Witnesses:
Wm. Truran
Wm. E. Layton

Inventor:
John C. Reed
By Munn & Co
Attorneys

N. PETERS, PHOTO-LITHOGRAPHER, WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

JOHN C. REED, OF STAMFORD, CONNECTICUT, ASSIGNOR TO HIMSELF AND JOSHUA Y. BILLARD.

IMPROVED WINDOW-BLIND.

Specification forming part of Letters Patent No. **51,268**, dated November 28, 1865.

To all whom it may concern:

Be it known that I, JOHN C. REED, of Stamford, in the county of Fairfield and State of Connecticut, have invented a new and useful Improvement in Window-Blinds; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable those 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 is a vertical longitudinal section through the line *x x*, Fig. 2. Fig. 2 is a horizontal cross section through the line *y y*, Fig. 1, the blind being partly opened. Fig. 3 is an enlarged detail view of the gear-wheel R.

The object of my invention is to furnish a means by which the slats of a window-blind may be operated for regulating the admission of light without opening the window; and it consists in combining a crank and rod with a system of bevel-gears, and with the slots of a window-blind, and also in combining a self-adjusting clutch with the bevel gears and with the window-casing, as hereinafter more fully described.

A is the window-sill or bottom of the window-casing. B is the top, and C D the sides, of said casing.

E is the bottom, F the top, and G H the sides, of the frame of the blind. The slats I are attached to the sides G H of the blind-frame in the ordinary manner. Their edges are also attached in the ordinary manner to a vertical strip, J, for operating the slats simultaneously.

To the lower end of the vertical strip J is pivoted a rod or bar, K, the lower end of which is pivoted to the end of the crank L. The crank L is attached to and operated by the shaft M of the bevel-gear N. The shaft M works in bearings O P, attached to the lower part, E, of the frame of the blind. The bevel-gear N meshes into a bevel-gear R, which works in bearings attached to the frame E of the blind. The surface of the bevel-gear R is made slightly dish-shaped, and it is perforated with a square hole, S, as shown in Fig. 3; or the edges of the hole S may be beveled, which will accomplish the same purpose as making the surface of the wheel dish-shaped.

T is a self-adjusting clutch, which passes through the window casing or frame, as represented in the drawings. The projecting end of the clutch rests in a support, U, by raising or lowering which the height of the forward end or point of the clutch may be regulated. The forward end of the clutch T is made square, as represented, so that it may fit into the square hole S in the bevel-gear R. As the window-blind is swung shut the point of the clutch T strikes against the dish-shaped surface of the gear-wheel R, or the beveled edges of the square hole S, and slips into said hole automatically, when the slats I may be operated upon by turning the knob or handle V of the clutch.

The coiled spring W, through which the clutch T passes, is placed in a chamber hollowed out in the part of the window frame or casing through which the clutch T passes, with one end resting against a pin passing through said clutch, or against a projection or shoulder formed on said clutch, and the other end resting against the plate which holds the clutch in place. This spring is designed as a guard against any injurious or unpleasant effects from the concussion when the blind is swung shut against the end of the clutch T.

I claim as new and desire to secure by Letters Patent—

1. The combination of the crank L and bar or rod K with the bevel-gear N R and the slats of the window-blind, substantially as and for the purpose set forth.

2. The combination of the self-adjusting clutch T with the bevel-gears R N and the casing or frame of the window, substantially as described, and for the purpose set forth.

3. The combination of the coiled spring W with the clutch T and window casing or frame, substantially as described, and for the purpose set forth.

JOHN C. REED.

Witnesses:
EDWIN HOYT,
WM. H. HOLLY.