

(No Model.)

M. PEPPER.
CURTAIN FIXTURE.

No. 272,898.

Patented Feb. 27, 1883.

Fig. 1.

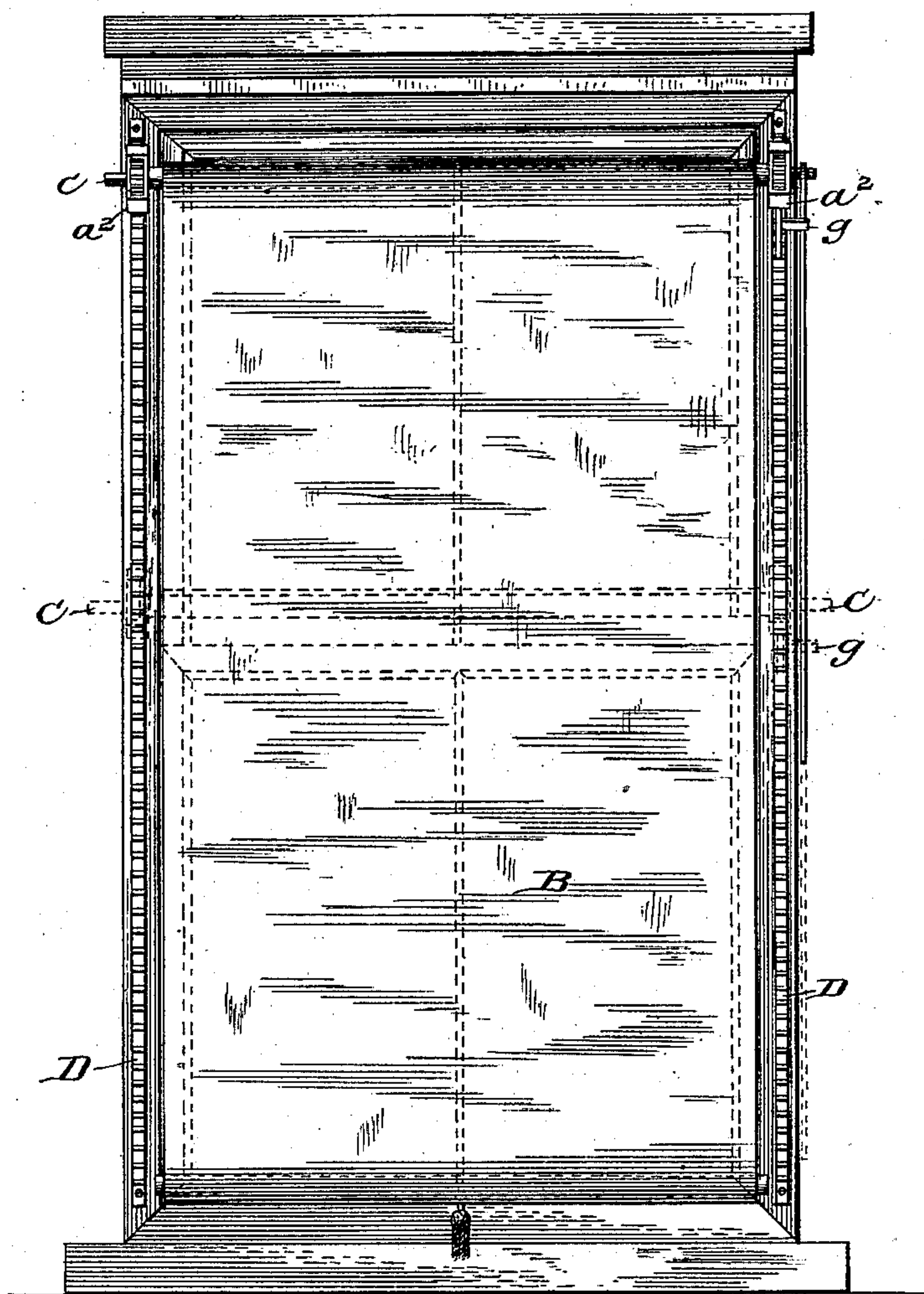


Fig. 2.

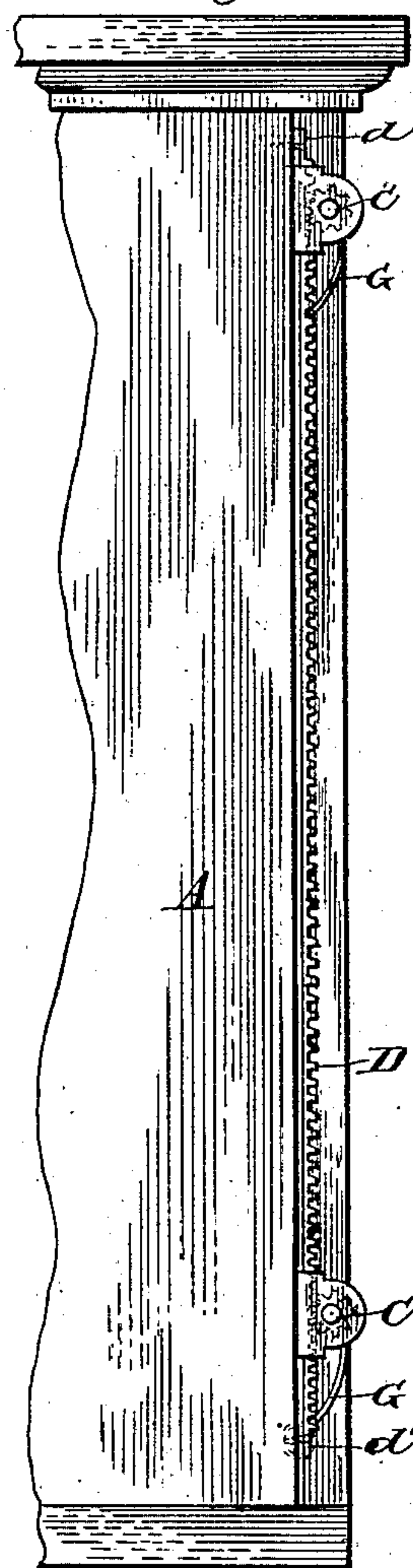


Fig. 3.

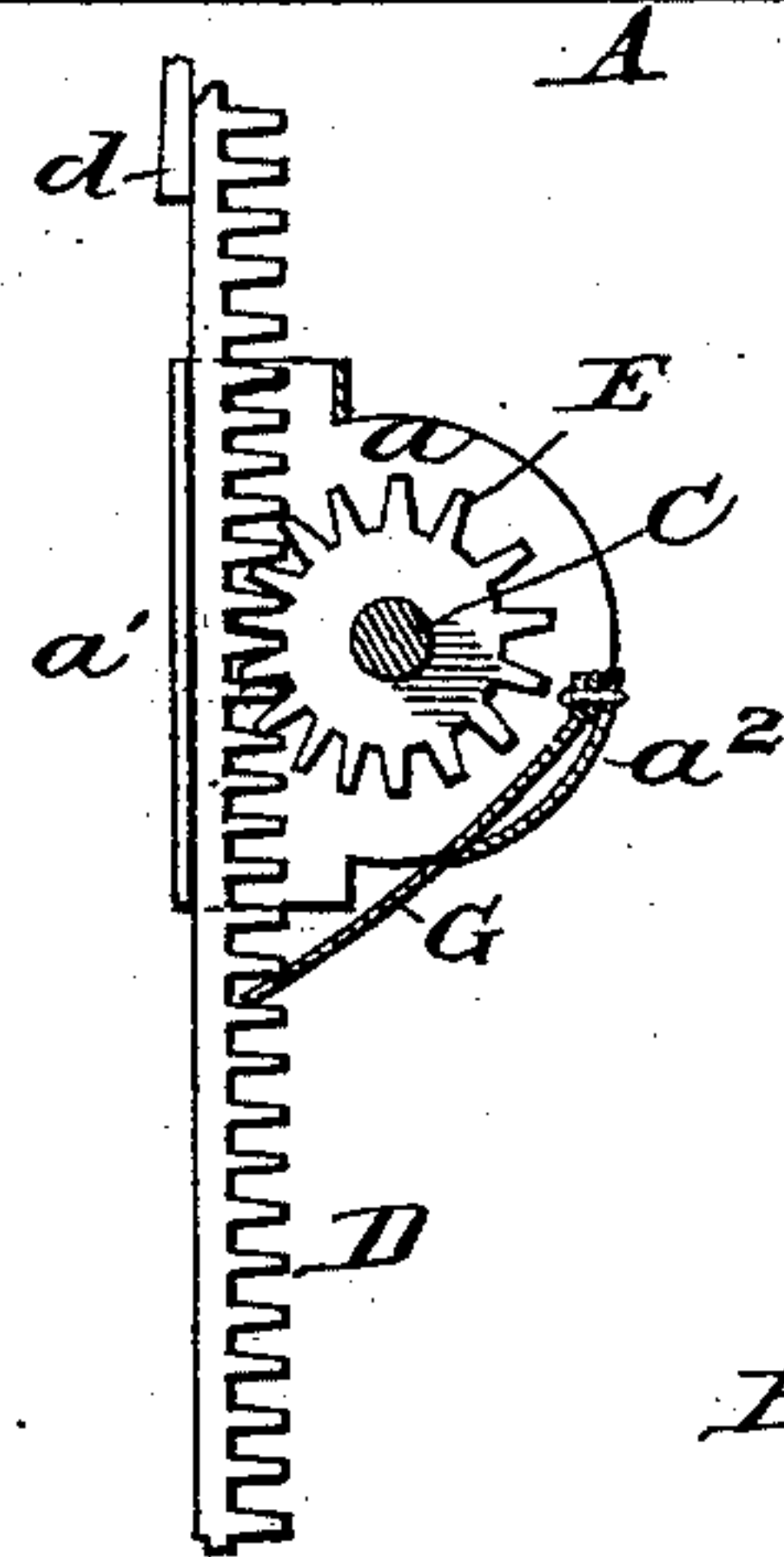


Fig. 5.

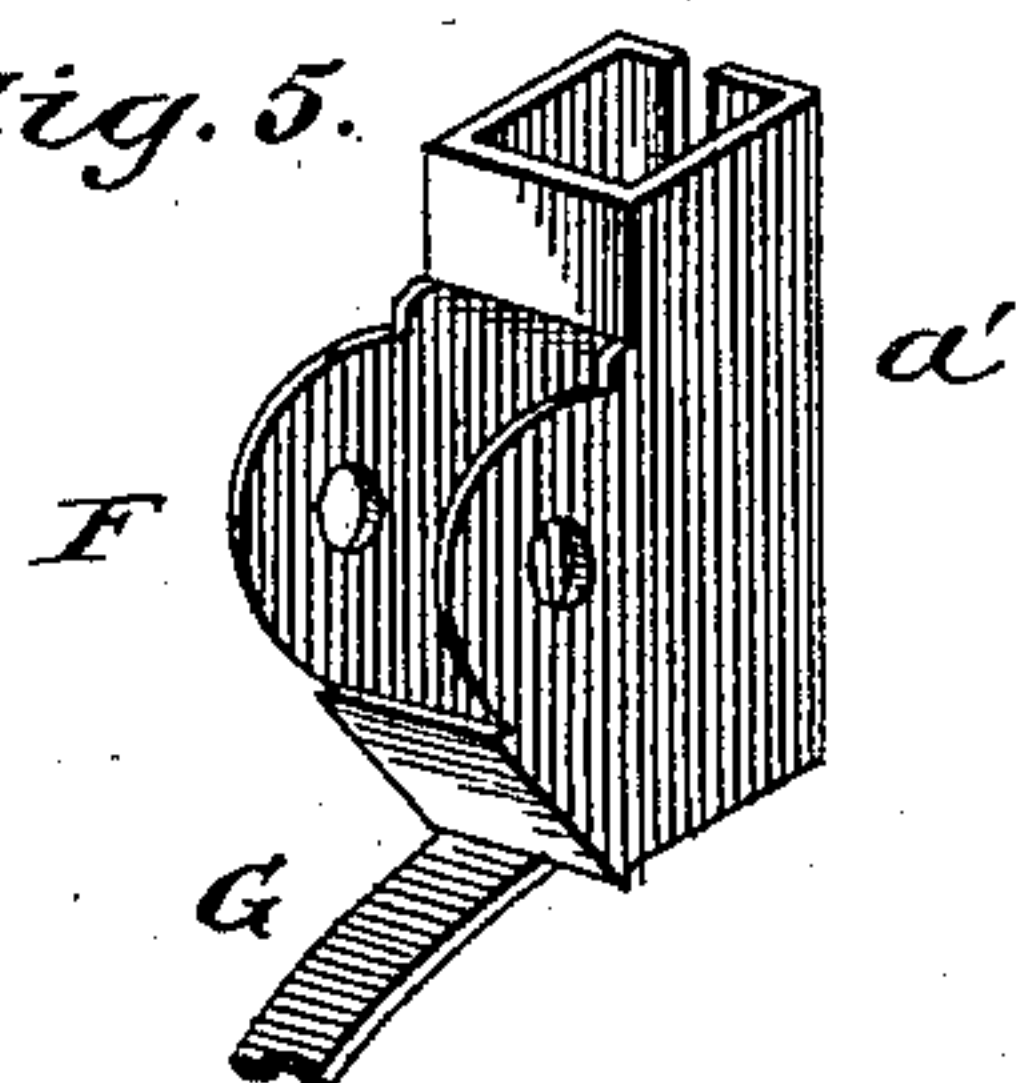
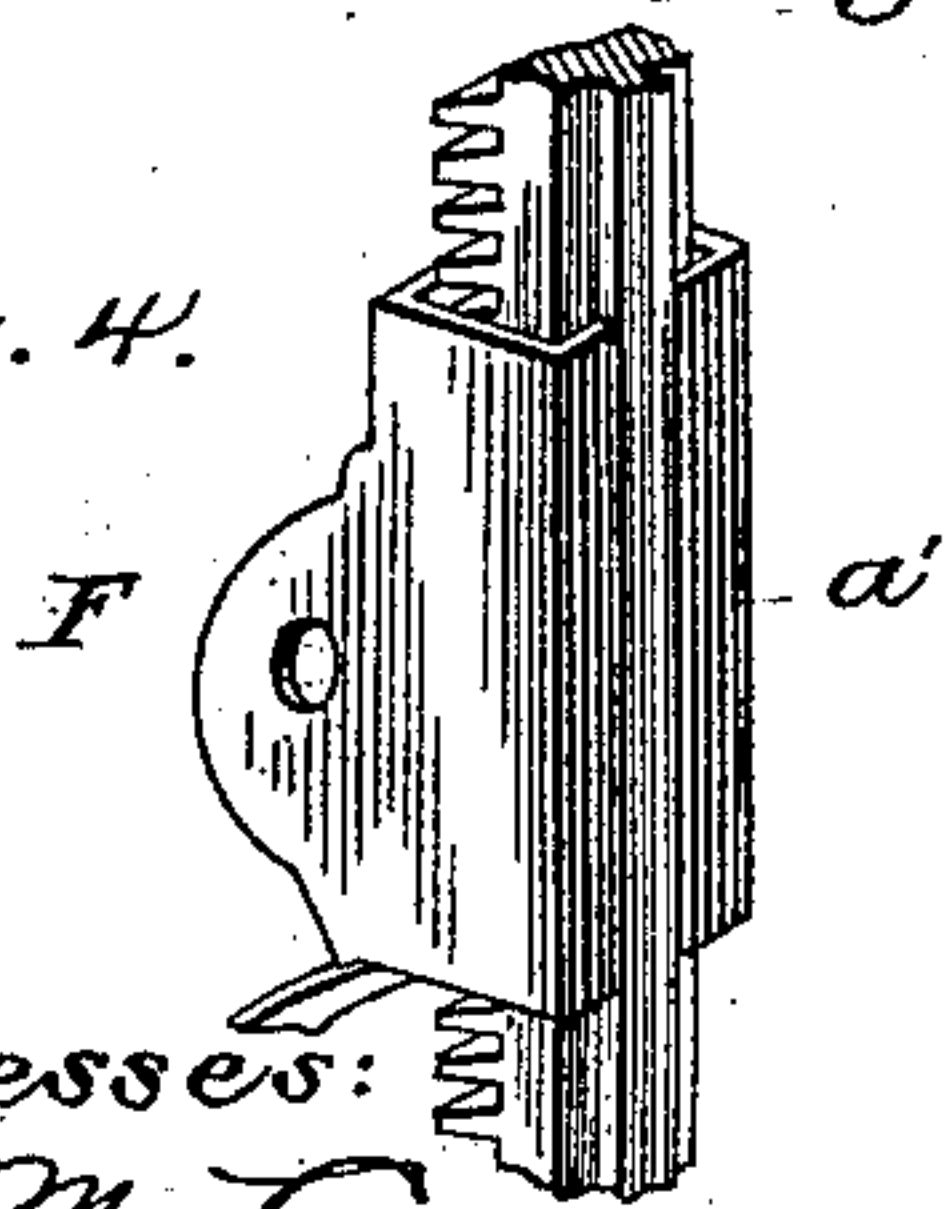


Fig. 4.



Witnesses:

A. M. Long.

Albert T. Walker

Marshall Pepper.
Inventor.

By Hallerick & Hallerick

Attys.

UNITED STATES PATENT OFFICE.

MARSHALL PEPPER, OF SIDNEY, OHIO.

CURTAIN-FIXTURE.

SPECIFICATION forming part of Letters Patent No. 272,898, dated February 27, 1883.

Application filed August 5, 1882. (No model.)

To all whom it may concern:

Be it known that I, MARSHALL PEPPER, a citizen of the United States, residing at Sidney, in the county of Shelby and State of Ohio, have invented certain new and useful Improvements in Curtain-Fixtures; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to that class of window-shades which are adapted to be bodily raised or lowered for the purpose of admitting light, and for allowing an unobstructed flow of air into the apartment when the window is opened.

The object of my invention is to overcome defects in other forms of construction; and the nature of it consists of parts and combination of parts, all as will hereinafter be explained and claimed.

Referring to the drawings, Figure 1 represents a front view or elevation of my device; Fig. 2, a side elevation and modification; Fig. 3, a detail view of the rack and movable bearings; and Fig. 4, a detail view of the movable bearing and rack, which is provided with a rib, d^2 ; Fig. 5, a perspective view of the movable bearing.

A represents the window-frame; B, the curtain; C, the roller; D, the racks; E, the pinions; F, the movable bearings for roller C; G, a spring ratchet-catch, and H a handle or lever for operating the spring ratchet-catch and for lifting the roller.

The racks D may be made of crimped sheet or cast metal, and are attached to the uprights of the frame. Each rack is provided at the inner side of top and bottom with ribs d d' , which project beyond the rack some distance from and leave a space between it and the frame A, so that the sleeve a' of movable bearing F may move up or down upon the rack.

The movable bearing F is formed with vertical sides a , having bearings for rollers C, of straps a^2 , for connecting the front part of the sides a , and of a sleeve, a' , which fits over the rack. This movable bearing F may be cast of one piece or made of sheet metal, in which case it may be made in one or several pieces. I prefer to make it of sheet metal, as the sleeve

a' can be formed by inwardly bending the rear ends of side pieces, a , at right angles. The advantage in thus forming the movable bearing is, that they may be attached to or detached from the racks after the latter have been put in place, whereas when cast it will be necessary to move the rack from the frame to attach or detach the part. With this form a rib, d^2 , extending the whole length of the rack, may be used. The roller C, as shown in Fig. 2, is provided at each end with a pinion, E, which fit within the sides a of the movable bearing F, and are placed immediately over and mesh with the teeth on the racks.

Attached in any suitable manner to the movable bearing is a spring ratchet-catch, G. This catch projects inwardly, and its free end is arranged at such an angle that it rests upon one of the teeth of the rack. When it is desired to lower the shade, the spring is lifted away from the teeth by a lever or handle, H, pivoted to one end of the roller; and which strikes against a lug or projection, g , on catch G. This handle H also serves to lift and lower the shade.

It is obvious that a spring ratchet-catch could be placed upon both sides of the shade, and each have a separate handle H; or a rod extending from spring ratchet-catch on one side to that upon the other may be substituted for lug g , and both catches operated by a single handle H.

It is also obvious that the roller may be placed at the bottom, and the shade rolled from bottom to top, or that two shades may be used, one to operate upon the upper half of the window and the other upon the lower half. In use it is immaterial from which end the rollers are operated, as it is clear that taste and convenience must be consulted. Therefore I do not limit myself to any particular place for hanging the shade.

The operation is as follows: Consider the shade as being in the position shown in full lines, and it is desired to drop the curtain to the point C C. All that will be necessary is to pull the handle toward the operator. This movement disconnects the end of the ratchet spring-catch from the rack, and roller C descends. In descending, the roller is revolved by pinions E, running upon the racks, and the

shade is rolled around the roller, thus leaving the location of the opposite end of the curtain unchanged. When the roller has reached the desired point, the catch is allowed to rest against the rack and the roller becomes fixed. When it is desired to elevate the roller, the operator pushes upwardly upon the handle or lever H, and the spring-catch slides over the rack.

If desired, rollers may be placed at top and bottom of the shade, as shown in Fig. 2, so that the curtain may be operated from top or bottom. The arrangement of parts upon the lower end of the shade may be the same as those upon the upper part.

What I claim as new is—

1. The combination, substantially as described, of a roller having a shade, pinions, and movable bearings, racks arranged upon each side and meshing with the pinions, a spring ratchet-catch, and a lever or handle for operating the device.

2. The combination, substantially as described, of a roller having a shade, pinions,

and movable bearings formed of sheet metal and bent around the rack to form sleeve, said racks arranged upon each side and meshing with the pinions, a spring ratchet-catch, and a lever or handle for operating the device. 25

3. The combination, substantially as described, of a shade having rollers at top and bottom, each provided with pinions and movable bearings, racks arranged on each side and meshing with the pinions, spring ratchet-catches, and levers for the device. 30

4. In a curtain-fixture, a movable bearing consisting of sides *a*, having bearings for the roller, straps *a*², for connecting the sides, and sleeve *a'*, which fits over the rack, for the purpose set forth. 35

In testimony whereof I affix my signature in presence of two witnesses. 40

MARSHALL PEPPER.

Witnesses:

G. W. HENDRICKSON,

D. OLDHAM.