

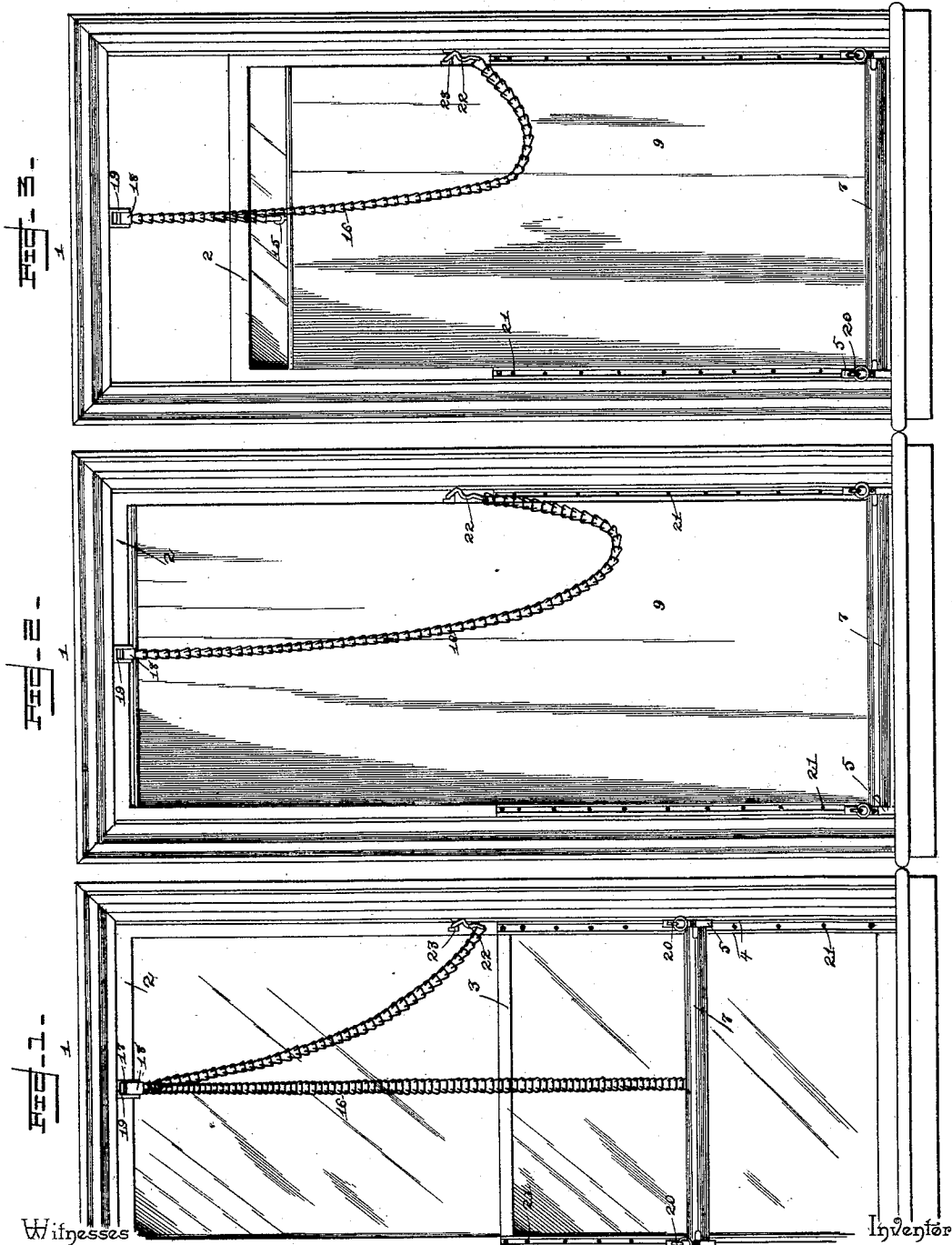
(No Model.)

2 Sheets—Sheet 1.

M. McE. KILLINGER.
WINDOW SHADE OR SCREEN.

No. 482,798.

Patented Sept. 20, 1892.



C. S. Duwall Jr.
H. J. Riley

McE. Killinger.
By his Attorneys,

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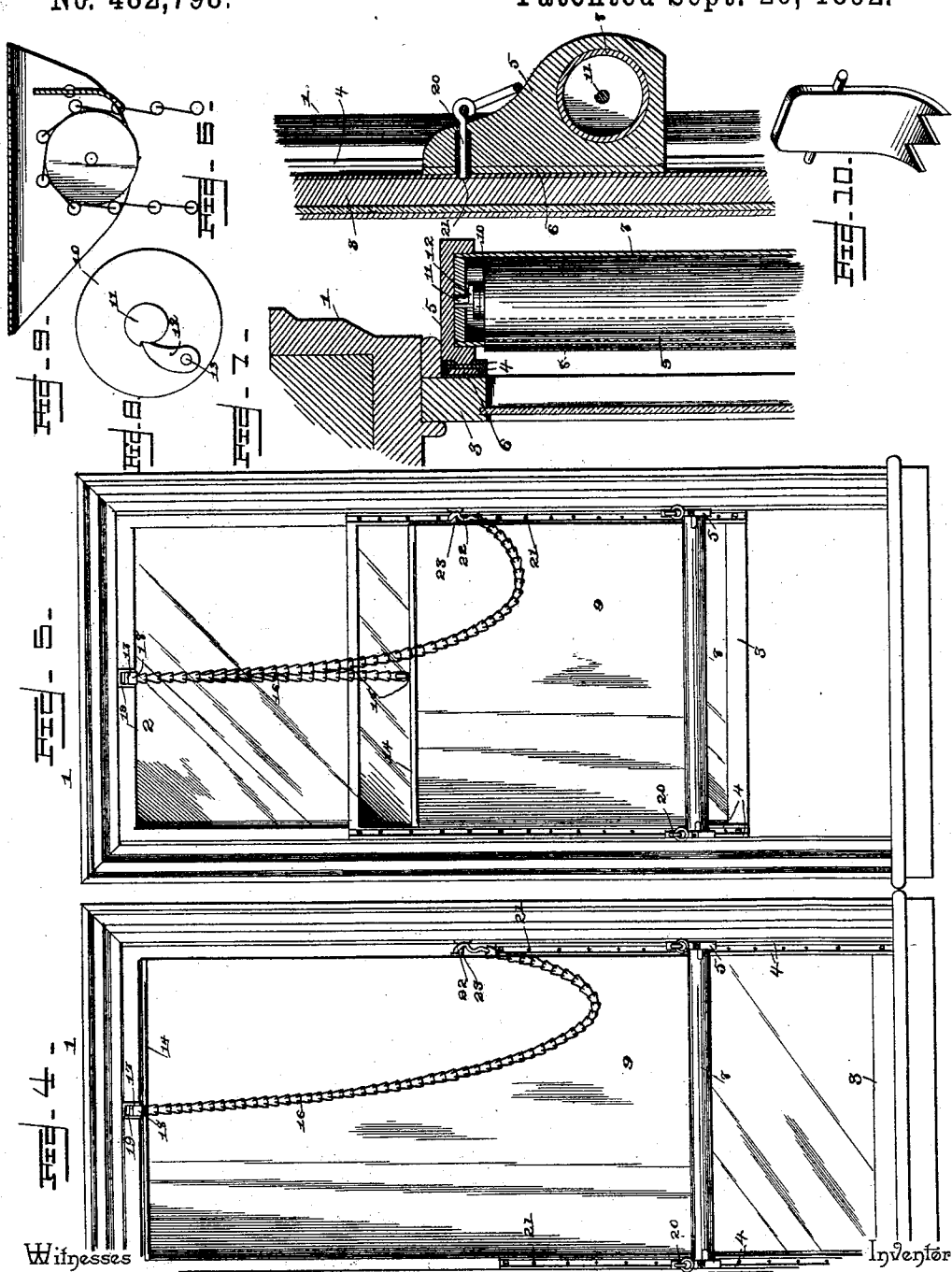
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Witnesses

Inventor

E. S. Duvall Jr.
H. J. Riley

By his Attorneys,

C. A. Snow & Co.

McE. Killinger.

UNITED STATES PATENT OFFICE.

MELROSS MCENTYRE KILLINGER, OF BATTLE CREEK, NEBRASKA, ASSIGNOR
TO FANNIE A. GRINNELL, OF WYTHEVILLE, VIRGINIA.

WINDOW SHADE OR SCREEN.

SPECIFICATION forming part of Letters Patent No. 482,798, dated September 20, 1892.

Application filed April 18, 1891. Serial No. 389,478. (No model.)

To all whom it may concern:

Be it known that I, MELROSS MCENTYRE KILLINGER, a citizen of the United States, residing at Battle Creek, in the county of Madison and State of Nebraska, have invented a new and useful Window Shade or Screen, of which the following is a specification.

The invention relates to improvements on a curtain-fixture forming subject-matter of an application for patent filed February 13, 1891, Serial No. 381,324.

The object of the present invention is to arrange the curtain or shade and enable the same to be adjusted so that any desired portion may be shaded by allowing the curtain or shade to be lowered from the top of the window or raised from the bottom.

A further object of the invention is to enable the curtain or shade to be readily adjusted without interfering with the arrangement of the sashes.

The invention consists in the construction and novel combination and arrangement of parts hereinafter fully described, illustrated in the accompanying drawings, and pointed out in the claims hereto appended.

In the drawings, Figure 1 is an elevation of a window provided with a curtain-fixture constructed in accordance with this invention, the curtain being within its casing and the latter being arranged at the middle of the lower sash. Fig. 2 is a similar view, the curtain being arranged to shade the entire window. Fig. 3 is a similar view, the curtain and the top sash being slightly lowered from the top. Figs. 4 and 5 are similar views showing other arrangements of the curtain and the lower sash. Fig. 6 is a vertical sectional view. Fig. 7 is a horizontal sectional view. Fig. 8 is a detail view of an end of the curtain-roller. Fig. 9 is a detail sectional view of the pulley and the pawl. Fig. 10 is a detail perspective view of the pawl.

Referring to the accompanying drawings, 1 designates a window-frame having upper and lower sashes 2 and 3, and the latter has secured to its sides track-plates 4, which are arranged adjacent the window-frame and are vertical, and have their longitudinal edges bent upon their faces and forming grooves adapted to receive curtain-brackets 5. The

track-plates are secured to the lower sash 3 and are engaged by plates 6, which are secured to the brackets 5 and project laterally therefrom, and the brackets have their inner edges arranged between the inward bent edges of the track-plates. A cylindrical curtain-casing 7 has its ends secured to the brackets, which are adapted to slide on the track-plates, and it is constructed similarly to that shown and described in the above-mentioned application, and the curtain-casing 7 is provided with a longitudinal opening 8, through which passes a shade or curtain 9. The shade or curtain 9 is wound around a spring-actuated roller 10, which is journaled in suitable bearings of the brackets 5 in the usual manner and which has its spring-trunnion 11 arranged to be engaged by a single dog 12.

In assembling the parts the spring-actuated trunnion is rotated to the required tension and is then engaged by the dog 12, which has its outer end pivoted to the end of the roller, and the rivet 13, which forms the pivot, is sufficiently tight to cause friction between the dog and the end of the roller to hold the dog out of engagement with the spring-actuated trunnion when the parts have been assembled and when the dog has been moved out of such engagement by a rotation of the roller 10. The curtain is provided at its outer end with a rod 14 and an eye 15, to which is secured one end of a flat-linked chain 16. The chain 16 is constructed similarly to that shown in the above-mentioned application and passes over a pulley 17 and is engaged by a pawl 18, which maintains the shade at any desired adjustment. The pulley and the pawl are mounted in a hanger 19, which is constructed like that shown in the said application and is secured to the top of the window-frame. The brackets 5 are adapted to be adjusted independently of the lower sash and to be moved vertically on the track-plates 4, and they are provided with spring-actuated bolts 20, which are arranged in horizontal openings of the brackets and are adapted to engage series of perforations 21 of the track-plates. By the above construction the curtain or shade can be arranged to cover the entire surface of a window or any portion thereof, and may be either lowered from the

top or raised from the bottom, as illustrated in Figs. 3 and 4, or both raised and lowered, as shown in Fig. 5. The curtain can also be arranged to expose the entire window and is then concealed within the casing, as illustrated in Fig. 1.

The chain is provided at its free end with a loop 22, which is curved and adapted to be readily grasped between the forefinger and the thumb, and after the curtain has been adjusted the loop 22 is hung on the hook 23, arranged on the window-frame. The curtain-fixture is mounted on the lower sash and moves with the same, and is also capable of adjustment independent of the sash, and from the foregoing description and the accompanying drawings the construction, operation, and advantages of the invention will be readily understood. With the combined adjustment of the sash and the brackets the curtain-fixture can be arranged at any part of a window and can then be adjusted both upward and downward from that point, which, it will be seen is a great advantage and enables a window to be adjusted for ventilation simultaneously with the adjustment of the curtain without either interfering with the other.

Were the adjustable brackets for the curtain mounted on the window-casing instead of on the sash, as shown, the great variety of adjustments by a minimum number of movements would not be secured. For instance, in this device when the lower sash is raised or lowered the curtain is correspondingly raised or lowered by the same movement. Now were the curtain on the casing it will be seen that each time the lower sash was raised or lowered the curtain would have to be independently adjusted to correspond with the adjustment of the sash, thus consuming time.

What I claim is—

1. In a curtain-fixture, the combination, with the window, of the brackets mounted adjustably on the lower sash, a spring-actuated curtain-roller mounted in the brackets, a curtain or screen wound on the same and leading upward, a hanger secured to the top of the

window and provided with a roller and with a pawl, and the chain passing over the roller and arranged to be engaged by the pawl and having one end secured to the end of the curtain, whereby the curtain-fixture can be arranged at any part of a window and be adjusted both upward and downward therefrom, substantially as described.

2. In a curtain-fixture, the combination, with a window, of the brackets adjustably secured to the lower sash, a spring-actuated curtain-roller mounted in the brackets, a curtain or screen wound on the roller and leading upward to the top of the window, and means located at the top for securing the curtain or screen in its adjustment, whereby the curtain-fixture is adapted to be arranged at any point of a window and be adjusted upward and downward therefrom independently of the sashes, substantially as described.

3. In a curtain-fixture, the combination of a window, the track-plates secured to one of the sashes, the brackets engaging the track-plates and being vertically adjustable on the sash, means for securing the brackets at any point of adjustment, a spring-actuated curtain-roller, a curtain or screen wound thereon, and means for securing the curtain in its adjustment, substantially as described.

4. In a curtain-fixture, the combination of a window, the track-plates secured to one of the sashes and provided with a series of perforations, the brackets arranged on the track-plates and engaging the same and provided with spring-actuated bolts arranged to engage the said perforations, the curtain-casing connecting the brackets, a spring actuated curtain-roller, a curtain or screen wound on the roller, and means for securing the curtain in its adjustment, substantially as described.

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

MELROSS MCENTYRE KILLINGER.

Witnesses:

E. G. SIGGERS,
J. H. SIGGERS.