

(No Model.)

2 Sheets—Sheet 1.

W. ROMÜNDER & E. J. FELLMAN.
COMBINED WINDOW SCREEN AND AWNING.

No. 542,312.

Patented July 9, 1895.

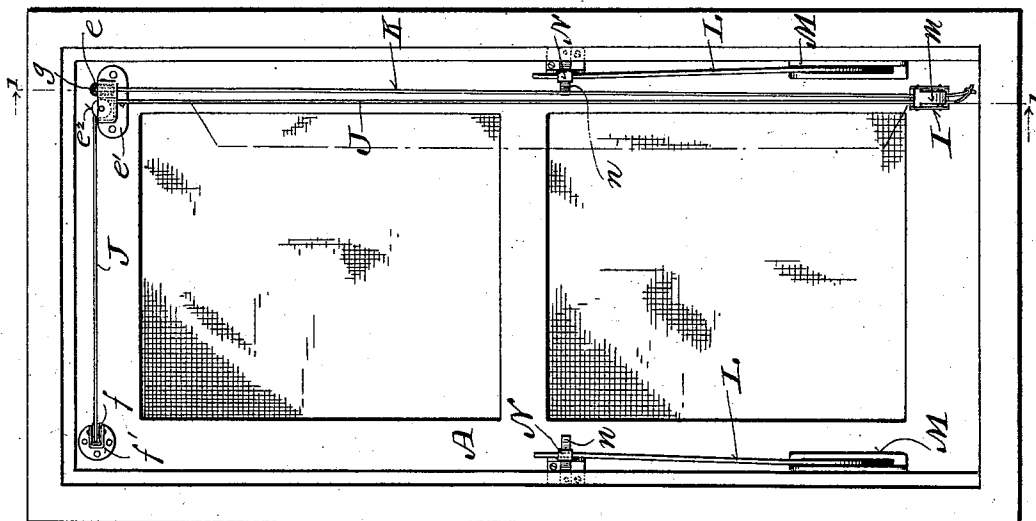


Fig. 2.

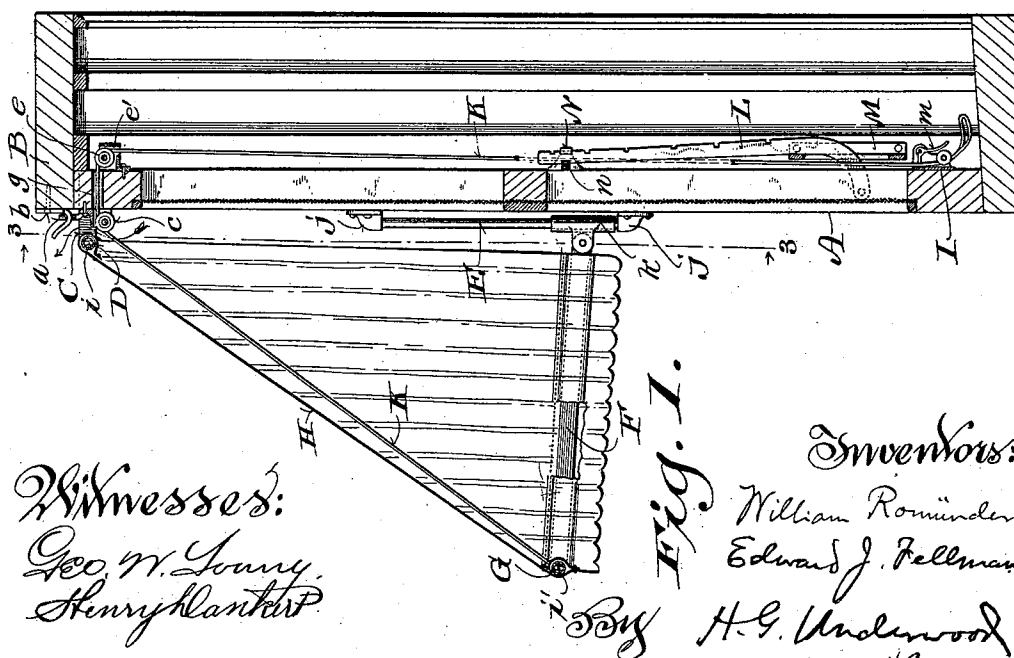


Fig. 1.

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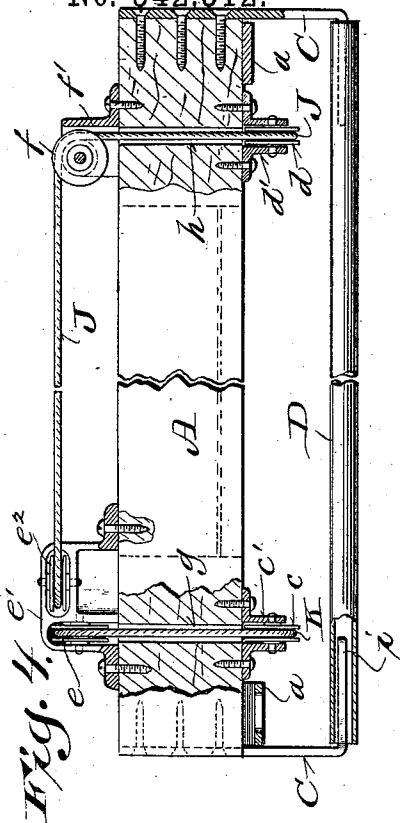


Fig. 4.

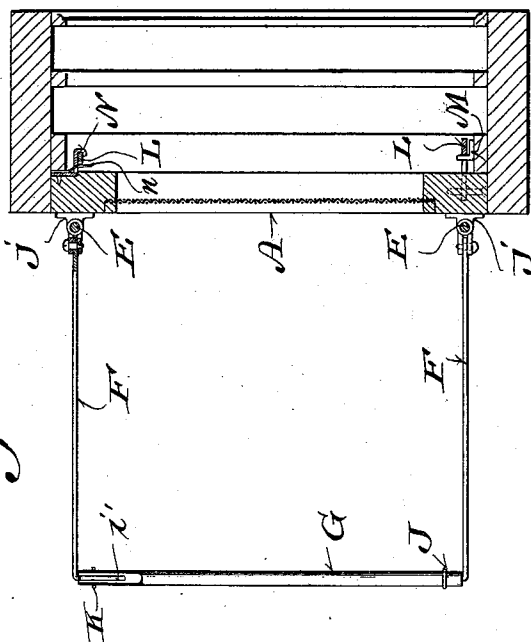


Fig. 5.

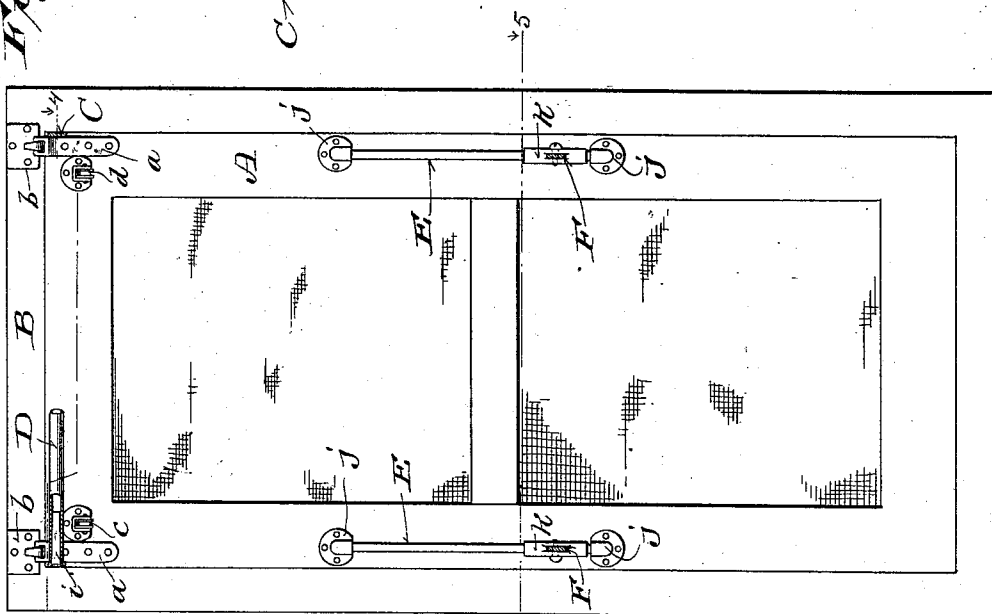


Fig. 3.

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UNITED STATES PATENT OFFICE.

WILLIAM ROMÜNDER AND EDWARD J. FELLMAN, OF MILWAUKEE,
WISCONSIN.

COMBINED WINDOW-SCREEN AND AWNING.

SPECIFICATION forming part of Letters Patent No. 542,312, dated July 9, 1895.

Application filed January 28, 1895. Serial No. 536,408. (No model.)

To all whom it may concern:

Be it known that we, WILLIAM ROMÜNDER and EDWARD J. FELLMAN, citizens of the United States, and residents of Milwaukee, in the county of Milwaukee and State of Wisconsin, have invented certain new and useful Improvements in a Combined Window-Screen and Awning; and we do hereby declare that the following is a full, clear, and exact description thereof.

Our invention relates to combined window-screens and awnings; and it consists in certain peculiarities of construction and combination of parts, all as will be fully explained herein-after and subsequently claimed.

In the drawings, Figure 1 is a vertical sectional representation of our improved device on the line 1 1 of Fig. 2. Fig. 2 is an interior view of a window-casing supplied with our said device. Fig. 3 is a front elevation of our said device with the awning removed and its attachments partly in section on the line 3 3 of Fig. 1. Fig. 4 is a detail horizontal sectional view on the line 4 4 of Fig. 3. Fig. 5 is a like view on the line 5 5 of Fig. 3 and also showing the lower frame of the awning.

In our present invention we have shown an adjustable and removable window-screen suspended and adapted to be adjusted and locked in substantially the same manner as are the analogous devices shown in the Letters Patent granted to us January 15, 1895, and numbered 532,483, and we have combined with this screen an awning, all the fixtures of which are secured directly to said screen, so that if the screen is moved or adjusted the awning will be bodily moved therewith, and, further, so that the two will be put up or taken away together without leaving any of said awning-fixtures to disfigure the building or window-casing after the time for use of the awning has gone by and the awning removed, the screen and awning being thus always kept together, which is the more desirable, as they are designed to be used at the same time.

Referring to the drawings, A represents a window-screen, of a shape and size adapted to fit snugly within the outer casing of the window to which it is to be applied, said screen being suspended from the top of said casing

B by means of separable hinges *a b*, as shown, the part *b* of the hinge having a lip passing through a slot in the part *a* thereof. Close to these hinge parts *a a*, upon the outer face of the upper part of the frame of the screen A, are located the pulleys *c d*, vertically arranged in suitable blocks *c' d'*, secured, as by screws, to said frame. Opposite the block *c'* is the double pulley-block *e'*, secured, as by screws, to the inner face of said screen A and carrying the vertically-arranged pulleys *e e'* at right angles to each other, while opposite to the pulley-block *d'* is the pulley-block *f'*, also secured, as by screws, to the inner face of said screen and carrying the horizontally-arranged pulley *f*, the said screen-frame being transversely perforated, as best shown at *g h* in Fig. 4, to form passages for the hereinafter-described awning-operating cords. Adjacent to the outer edges of the hinge parts *a a* are located the angle-plates C C, secured, as by screws, to the side edges of the upper part of the screen-frame A, these plates projecting for some little distance beyond the outer face of said screen and terminating in inwardly-bent ends *i*. These ends gradually taper, as shown in Fig. 3, (where only one of them is shown,) and before the said angle-plates are secured to the screen-frame these tapered ends *i* are driven into a tubular cross-bar D, which forms the upper member of the awning-frame, which member by this driving fit is held firmly to said angle-plates.

E E are vertical guide-rods, held in suitable bearings *j j*, secured to the stiles of the screen-frame, which guide-rods receive sleeves *k k*, to which are pivoted the inner ends of side bars F F, whose outer ends *i'* are bent inward and tapered, like the ends *i* of the angle-plates C above, and which are similarly secured by a driving fit to a tubular cross-bar G, said parts F F G forming the lower members of the awning-frame.

H represents the awning, of any suitable textile material, such as canvas, formed with the necessary hems or pockets to receive the described parts D G F F.

I represents a pulley-block provided with suitable pulleys and a cord-fastener *m*, secured to the lower part of one of the screen-frame stiles, on the inner face thereof. From

this point one cord J extends up along the stile and around pulley e^2 , thence along the upper rail of the screen-frame and around pulley f , thence through cord-passage h and around pulley d , and thence down beneath the awning to one end of the tubular member G of the awning-frame. The other cord K starts from the pulley-block I and extends up along the inner surface of the same stile parallel with cord J and passes around pulley e , thence through cord-passage g and around pulley c , and thence down beneath the awning to the other end of the tubular member G of the awning-frame.

15 The devices herein shown for locking the screen in place are very similar to those shown in our prior patent hereinbefore named, comprising notched spring-arms L, pivoted to the screen-frame and engaging with loops M on the window-casing strips, and hooks or catches N on the said screen-frame; but in the present instance we have improved the said hooks or catches by adding springs n to come against the inner edge of the said spring-arms to compensate for any possible lack in contact arising from wear and by holding the upper ends of said arms snugly against the said hooks or catches to prevent any possibility of rattling.

30 The operation of our improved device will be readily understood from the foregoing description of its construction, taken in connection with the accompanying drawings. By reason of extending the angle-plates C C some little distance beyond the outer face of the screen-frame, which latter comes practically flush with the window-casing above it, we provide sufficient space for the heated air which collects below the awning to escape upward, and thus insure ventilation at this point, and by the described arrangement of cords and pulleys the awning can be raised or lowered from within the room by simply raising the lower window-sash slightly and without disturbing the screen, and therefore without admitting dust or flies into the room. Again, the screen, with the awning attached, can be readily suspended in position from

within the room, and when no longer required the combined device can be as readily taken down and stored in about the same space required for the screen alone, and when again needed will be ready for instant use and replacement without the need of expert labor.

Having thus described our invention, what we claim as new, and desire to secure by Letters Patent, is—

1. A removable window-screen, in combination with an awning attached directly thereto, the operating cords of said awning passing through the screen-frame and being secured on the inner surface thereof, substantially as set forth.

2. The combination with a window-casing of a window-screen removably suspended therefrom, and provided with locking devices for adjustably securing it thereto, vertical guide-rods on the outer surface of the screen-frame, sleeves movable upon said guide-rods, side-bars pivoted to said sleeves, a cross-bar secured to said side-bars, angle-plates secured to and projecting forward of the upper side edges of said frame, a cross-bar secured to said projecting ends of the said angle-plates, an awning secured to said side and cross-bars, pulleys arranged upon opposite sides of the upper part of said screen-frame in line with transverse cord passages formed in said frame, cords extending up from the opposite ends of the described lower cross-bar and passing around said pulleys and through said cord-passages, and down on the inner side of said screen frame, and a cord fastening device on the lower inner side of said frame for engagement with the ends of said cords, substantially as set forth.

In testimony that we claim the foregoing we have hereunto set our hands, at Milwaukee, in the county of Milwaukee and State of Wisconsin, in the presence of two witnesses.

WILLIAM ROMÜNDER.
EDWARD J. FELLMAN.

Witnesses:

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C. W. SCOTT.