No. 858,917. PATENTED JULY 2, 1907.

S. E. SNEDEKER.

WINDOW SCREEN.

APPLICATION FILED MAR. 19, 1907.

Fig. 2

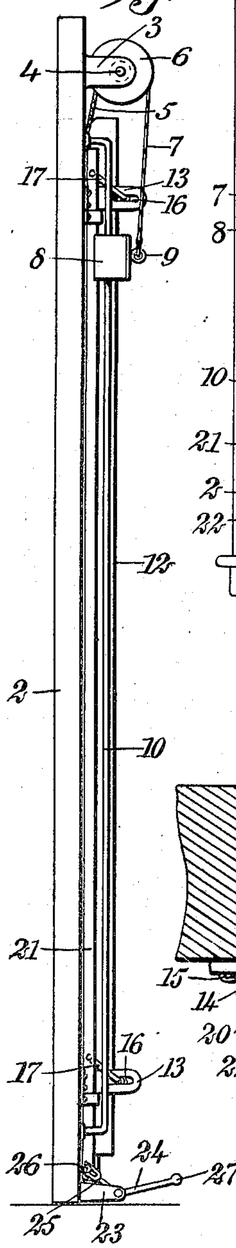


Fig. 1.

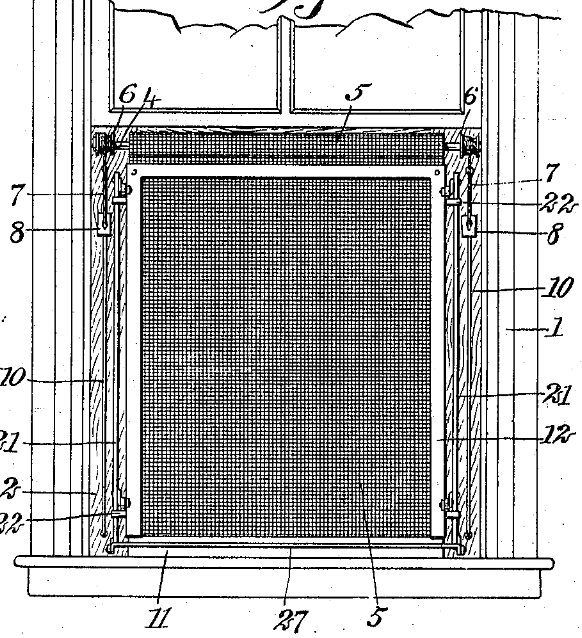


Fig. 3.

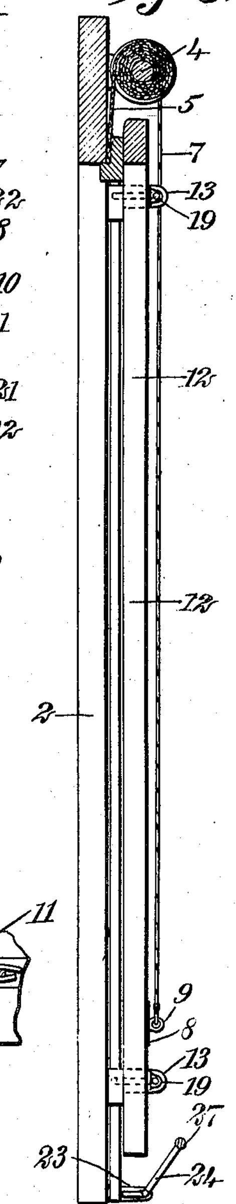
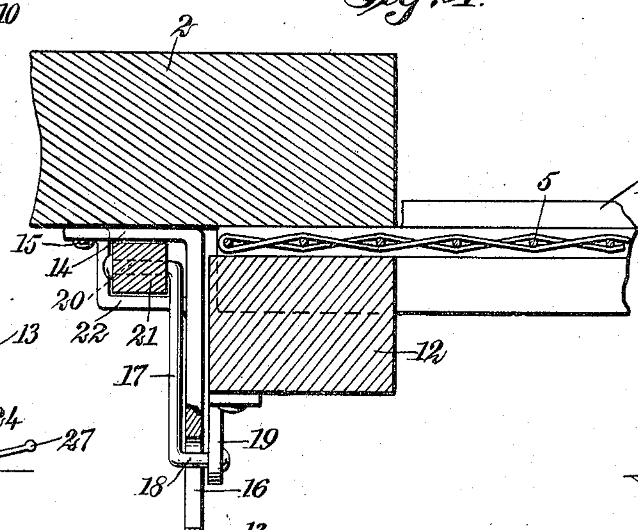


Fig. 4.



WITNESSES

L. Greeford Hander

John K. Brachvogel.

INVENTOR

Samuel E. Snedeker

BY Munn & Co

ATTORNEYS

UNITED STATES PATENT OFFICE.

SAMUEL EDGAR SNEDEKER, OF WHITE PLAINS, NEW YORK.

WINDOW-SCREEN.

No. 858,917. Specification of Letters Patent. Patented July 2, 1907.

Application filed March 19, 1907. Serial No. 363,268.

To all whom it may concern:

Be it known that I, SAMUEL EDGAR SNEDEKER, a citizen of the United States, and a resident of White Plains, in the county of Westchester and State of New York, have invented a new and Improved Window-Screen, of which the following is a full, clear, and exact description.

This invention relates to window screens, and is particularly useful in connection with devices of this character in which the screen, intended to prevent the entry of insects, dust and the like through the window, is adjustable.

The object of the invention is to provide a simple, strong and durable window screen, in which the screen is supported upon a roll and in which the screen may be adjusted and secured in position as desired.

The invention consists in the construction and combination of parts to be more particularly described hereinafter and fully set forth in the claims.

Reference is to be had to the accompanying drawings forming a part of this specification, in which like characters of reference indicate corresponding parts in all the views.

Figure 1 represents a window screen frame showing my device applied thereto; Fig. 2 is a side elevation of the window screen; Fig. 3 is a vertical cross-section of the device; and Fig. 4 is an enlarged horizontal section of a detail.

Referring more particularly to the drawings, I provide a supporting frame 2 which is adapted to be fixed in position in a window-frame 1 of the usual construction, as shown most clearly in Fig. 1. The supporting frame 2 consists of lateral vertical members and a transverse member joining the vertical members at their upper extremities. Secured to the upper portion thereof are bearing brackets 3 within which is mounted a rotatable roller 4 upon which is rolled the screen 5 of wire or other similar suitable material. At the ends of the roller 4 are rigidly mounted drums 6. Wound upon the drums 6 are flexible members 7 consisting preferably of strong cords or strings. The cords 7 are secured to weights 8 provided with eyes 9 for the purpose. The weights 8 are arranged to slide upon vertical guides 10 consisting of rods of metal or other suitable material vertically mounted upon the lateral members of the supporting frame 2. The arrangement is such that if the weights 8 slide downward upon the guides 10 the cords 7 are unwound from the drums, thereby rotating the roll 4 and thus winding up the screen upon the roll. When the screen is unrolled from the roll 4 the weights are moved upwardly upon the guides. The free end of the screen 5 is provided with a cross-piece 11 for a purpose which will appear hereinafter.

I provide a holding frame 12 adjustable with respect to the supporting frame in a direction substantially perpendicular therewith. The holding frame comprises lateral members and a cross member joining the upper extremities of the lateral members. Brackets 13 are rigidly mounted upon the lateral members of the supporting frame adjacent to the lateral members of the holding frame, by means of laterally disposed toes 14 secured in position by means of screws or bolts 15. The brackets 13 extend outwardly beyond the holding frame and at their outer extremities have slots 16 within which are slidably located the laterally disposed ends 18 of levers 17. The extremity of the end 18 of each lever 17 is secured to a holder 19 rigidly mounted upon a lateral member of the holding frame. The opposite end 20 of each lever 17 is bent and is pivotally secured to a rod 21 substantially parallel to the lateral members of the holding frame. The rods 21 are movable in a substantially vertical direction and are pivotally connected with the holding frame at their upper and lower extremities by the levers 17. The arrangement is such that the upward or downward movement of a rod 21 is translated through the levers 17, the ends 18 of which are forced to move in a direction substantially perpendicular to the movement of the rod 21 by means of the slots 18, to a movement of the holding frame substantially perpendicular to the movement of the rod. It will be understood that as the rods 21 are moved up or down the holding frame 12 is correspondingly moved toward the supporting frame or away from the latter. The brackets 13 are provided with guides 22 within which the rods 21 are slidably located.

Near the lower extremities of the lateral members of the supporting frame are brackets 23 at which bell cranks 24 are pivotally mounted. One arm 25 of each bell crank 24 is provided with a fork engaging with an arm 26 extending laterally from each of the rods 21. The other arms of the bell cranks 24 are connected by a hand bar 27 by means of which the bell cranks may be manually operated to raise or lower the rods 21.

When it is desired to place the screen in position over the window opening, the hand bar 27 is raised, thereby raising the bars 21 and moving the holding frame outwardly from contact with the supporting frame; the screen is then unrolled from the roll 4 and is drawn downward until the cross piece 11 rests against the window-sill. The hand bar is then depressed, whereby the holding frame is forced against the supporting frame and thus securely clamps the screen in position. The lateral members of the holding frame do not extend to the window-sill but the arrangement is such that the cross piece 11 engages with the lower extremities of the lateral members of the holding frame whereby the screen is prevented from being accidentally displaced to permit its being rolled upon the roller through the action of the weights 8. It will be understood that when it is desired to remove the screen from

the window it is merely necessary to raise the hand bar of the bell cranks to release the holding frame, whereupon the weights 8 slide downwardly upon the guides 10 and return the screen to its inoperative rolled-up position upon the roll 4.

Having thus described my invention I claim as new and desire to secure by Letters Patent:—

1. A window screen, comprising a supporting frame adapted to fit in a window, a holding frame adjustable with respect to said supporting frame, a member arranged to slide upon said supporting frame, a lever secured to said member and said holding frame, means for controlling said lever whereby the movement thereof effects a movement of said holding frame, at an angle with the said supporting frame, and a screen adapted to be removably inserted between said frames.

2. A window screen, comprising a supporting frame adapted to fit in a window, a holding frame adjustable with respect to said supporting frame, a member arranged to slide upon said supporting frame, a lever secured to said member and to said holding frame, means rigid with said supporting frame for controlling said lever whereby the movement thereof effects a movement of said holding frame at substantially right-angles with said supporting frame, and a screen adapted to be removably inserted between said frames.

3. A window screen, comprising a supporting frame adapted to fit in a window, a holding frame adjustable with respect to said supporting frame, a slidable member carried by said supporting frame, a bracket rigid with said supporting frame, a lever secured to said member and to said holding frame and controlled by said bracket, and a screen adapted to be removably inserted between said frames.

4. A window screen, comprising a supporting frame adapted to fit in a window, a holding frame adjustably mounted upon said supporting frame, said holding frame having three sides and presenting an open side toward the lower portion of said supporting frame, means for forcing said holding frame against said supporting frame, a screen adapted to be removably mounted upon said supporting frame and to be inserted between said frames, and a cross-piece secured to said screen and adapted to engage with said holding frame at the open side thereof when said screen is in position.

5. A window screen, comprising a supporting frame adapted to fit a window, a rod slidably mounted upon said supporting frame, a bracket rigid with said supporting frame and having a slot, a holding frame adjustable with respect to said supporting frame and adapted to be forced thereagainst, a lever secured to said rod and to said holding frame, and in engagement with said slot of said spring frame bracket, and a screen adapted to be removably inserted between said frames.

6. A casing, comprising a supporting frame adapted to fit in a window, a holding frame adapted to be forced against said supporting frame, a rod slidably mounted upon said supporting frame, a bracket rigid with said supporting frame and having a slot, a lever having an end pivoted to said rod and having the opposite end pivoted to said holding frame and in engagement with said slot, whereby a movement of said rod affects a movement of said holding frame at substantially right angles to said movement of said rod, and a screen adapted to be inserted between said frames.

7. In a window screen, a supporting frame having a rod slidably mounted thereupon, and a roll, a holding frame adjustable with respect to said supporting frame, a screen rolled upon said roll, a drum rigid with said roll, a cord wound upon said drum and having a weight, means upon said supporting frame for guiding said weight, a bracket rigid with said supporting frame and having a slot, a lever having an end pivoted to said rod and the opposite end pivoted to said holding frame and slidably located in said slot, said screen having a cross-piece adapted to engage with said holding frame to hold said screen in position, and a bell crank pivotally mounted upon said holding frame and engaging with said rod, said bell crank having means for manually operating the same.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

SAMUEL EDGAR SNEDEKER.

Witnesses:
S. W. HENDRICKSON,
JESSIE ROBBINS.