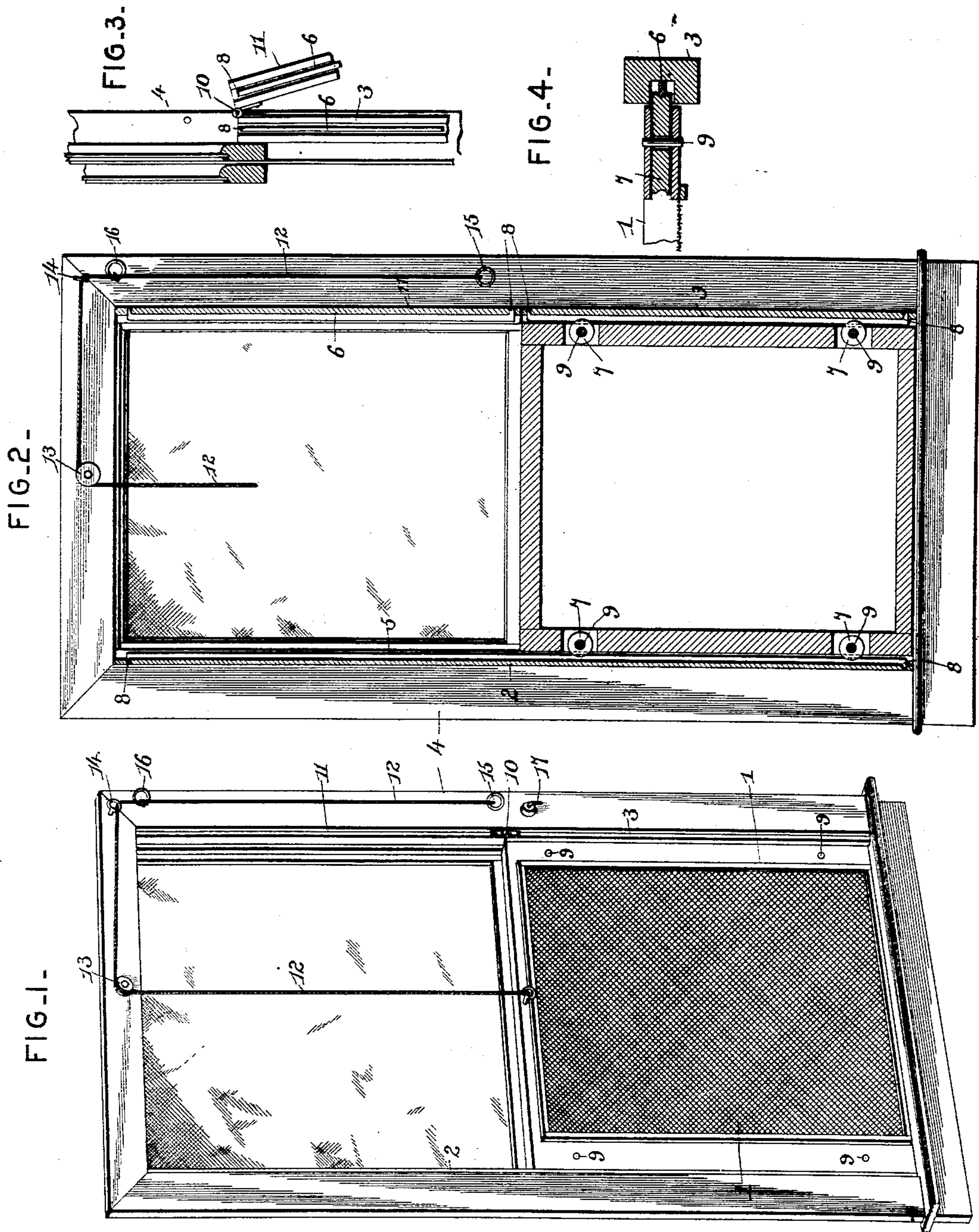


(No Model.)

S. W. HURLBURT.  
WINDOW SCREEN.

No. 520,112.

Patented May 22, 1894.



Inventor

*Samuel W. Hurlburt*

Witnesses

*James H. McLaughlin*  
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By his Attorneys.

*C. A. Snow & Co.*



# UNITED STATES PATENT OFFICE.

SAMUEL WESLEY HURLBURT, OF CRESTON, IOWA.

## WINDOW-SCREEN.

SPECIFICATION forming part of Letters Patent No. 520,112, dated May 22, 1894.

Application filed January 23, 1894. Serial No. 497,832. (No model.)

*To all whom it may concern:*

Be it known that I, SAMUEL WESLEY HURLBURT, a citizen of the United States, residing at Creston, in the county of Union and State of Iowa, have invented a new and useful Window-Screen, of which the following is a specification.

The invention relates to improvements in window screens.

The object of the present invention is to improve the construction of window screens, to provide one which may be readily applied to a window, and which may be readily raised and lowered with a minimum amount of friction, and to enable it to be readily removed from the window when desired and readily replaced.

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 claim hereto appended.

In the drawings—Figure 1 is a perspective view of a window screen constructed in accordance with this invention and shown applied to a window. Fig. 2 is a vertical longitudinal sectional view of the same. Fig. 3 is a transverse sectional view, the hinged section of the track cleat being swung down to enable the screen to be removed. Fig. 4 is a detail sectional view illustrating the manner of mounting the rollers of the screen.

Like numerals of reference indicate corresponding parts in all the figures of the drawings.

1 designates a window screen, arranged between track cleats 2 and 3 which are secured to opposite sides of a window frame 4 on opposed faces thereof adjacent to the window sashes; the tracks, strips or cleats 2 and 3 are provided with longitudinal grooves, in which are located metal tracks 5 and 6; and the window screen is provided at opposite sides with rollers 7 arranged in recesses and adapted to run on the tracks. The tracks are located within the grooves of the track strips or cleats; they are arranged on the bottom of the grooves projecting outward or raised from the bottom faces of the grooves; and they are secured at their ends by pins 8 or similar fastening de-

vices. The rollers 7 run on the tracks without coming in contact with the bottoms of the grooves; and their central openings are sufficiently larger than the shafts 9 to afford a slight amount of play to enable the rollers to operate freely, irrespective of any swelling and shrinking of the adjacent parts of the wood work, whereby the sliding of the screen is rendered frictionless. The track strip or cleat 3 is composed of two sections connected by a hinge 10; the upper section 11, which is secured in operative position by a screw or similar fastening device, may be swung downward, as illustrated in Fig. 3 of the accompanying drawings, by removing the screw or other fastening device, to permit the window screen to be removed.

The window screen is operated by means of a cord 12 having one end attached to the top-most screen, and extending vertically therefrom and passing around a pulley 13; it extends from the pulley, which is centrally arranged at the top of the window to one side of the latter to a guide eye 14, preferably consisting of an eye-bolt; and it extends downward, and is provided at this end with a ring 15, which serves as a handle. The cord is provided intermediate of its ends with a ring 16, which is drawn down as the screen is raised, and is adapted to engage a hook 17 for holding the screen elevated. Instead of arranging the cord as shown, it may extend downward directly from the pulley 13 and be hooked at the bottom of the window if desired.

It will be seen that the window screen is simple and comparatively inexpensive in construction, that it is adapted to be readily applied to a window, and that after being mounted on the window, it may be readily removed therefrom and replaced as desired.

Changes in the form, proportion and the minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of this invention.

What I claim is—

The combination with a window frame, of the grooved track strips 2 and 3 secured to opposite sides of the window frame, the strip 3 being composed of upper and lower sections

hinged together, the upper section being detachably secured to the window and adapted to swing downward, the metal tracks arranged on the bottoms of the grooves of the strips, a  
5 screen provided at opposite sides with recesses, and rollers mounted in the recesses and arranged to run on the tracks, substantially as described.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in 10 the presence of two witnesses.

SAMUEL WESLEY HURLBURT.

Witnesses:

IRA B. LUCAS,

J. F. DIFFENBAUGH.