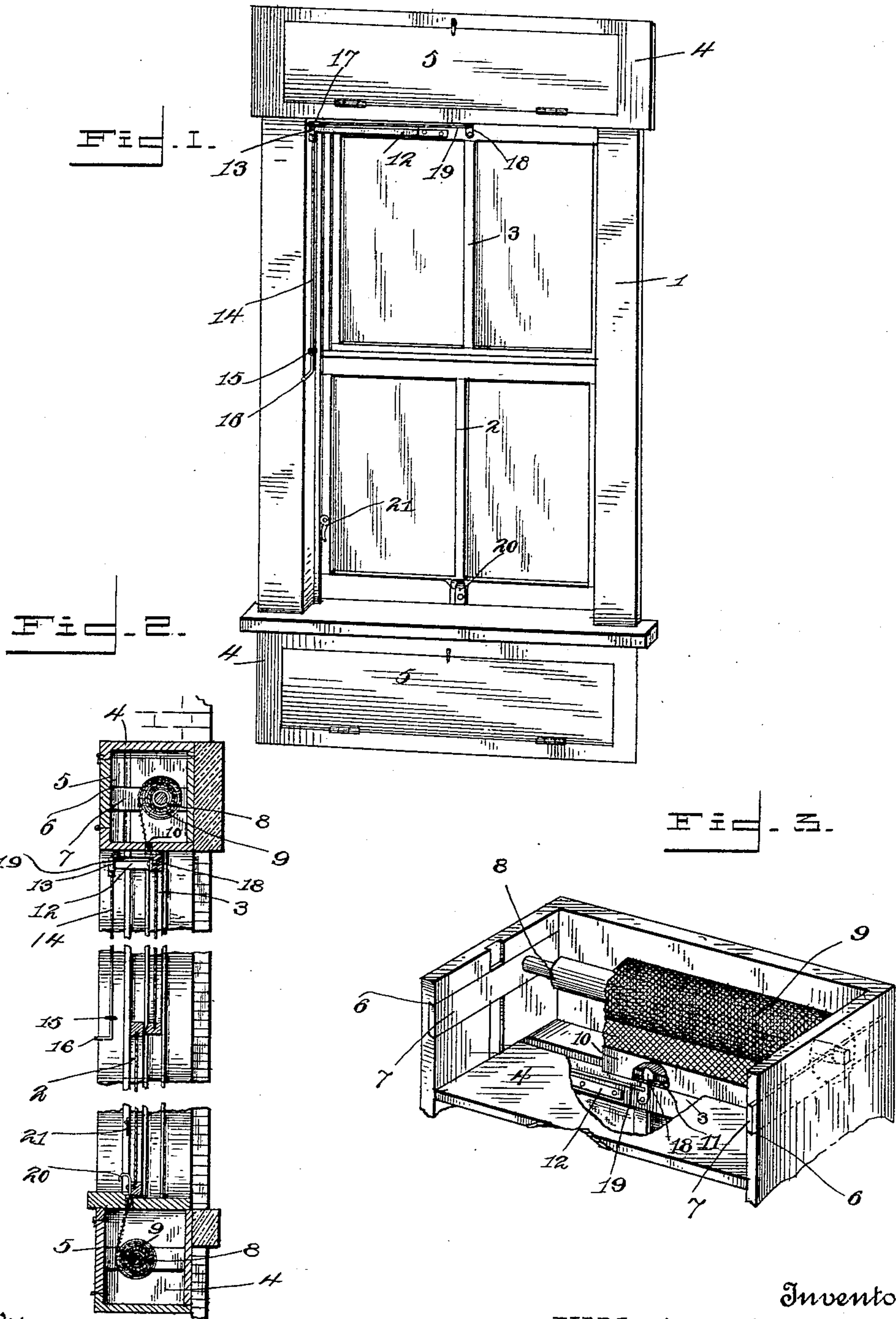


(No Model.)

W. H. CASSELBERRY.
WINDOW SCREEN.

No. 602,553.

Patented Apr. 19, 1898.



Witnesses:
Tenton S. Belt,
J. A. Wilson,

Inventor:
W. H. Casselberry,
by *A. B. Wilson & Co.,*
Attorneys.

UNITED STATES PATENT OFFICE.

WILLIAM H. CASSELBERRY, OF WILLIAMSPORT, PENNSYLVANIA.

WINDOW-SCREEN.

SPECIFICATION forming part of Letters Patent No. 602,553, dated April 19, 1898.

Application filed October 19, 1897. Serial No. 655,691. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM HENRY CASSELBERRY, a citizen of the United States, residing at Williamsport, in the county of Lycoming and State of Pennsylvania, have invented certain new and useful Improvements in Window-Screens; and I do 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 has relation to window-screens.

The object is to equip each sash with a screen which when not desired is concealed within a casing and which may be easily engaged with the sash and drawn across the opening of the window-frame when desired.

With this object in view the invention consists of certain features of construction and combination of parts which will be hereinafter fully described and claimed.

In the accompanying drawings, Figure 1 is a perspective view of a window-frame embodying my invention. Fig. 2 is a longitudinal sectional view; and Fig. 3 is a fragmentary view of one of the screen-casings, illustrating the journal-block for the screen-roller.

In said drawings, 1 denotes a window-frame, and 2 and 3 the lower and upper sashes, respectively. At the upper and lower ends of the window-frame are screen-casings 4, having removable fronts 5. The inner sides of the ends of these casings are provided with transverse guideways 6, which receive blocks 7, that support spring-rollers 8. These rollers 8 are provided with flexible screens 9, the free ends of which are provided with plates 10, having openings 11. The upper sash has an arm 12, that projects inwardly and is curved to form a bearing 13.

14 denotes an operating-rod which has its upper end journaled in said bearing and its lower end extending downwardly through a guide-eye 15 and formed with a handle 16. The extreme upper end of this rod is provided with a crank 17.

18 denotes a catch which is pivoted to the upper cross-piece of the upper sash and is adapted to pass through the opening in the plate secured to the free edge of the screen.

19 denotes a link that connects the pivoted catch to the crank of the operating-rod. When it is desired to lower the upper sash and at the same time to draw down the screen

and cover the opening in the frame, the operating-rod is turned in its bearings, so as to work the catch into the slot of the plate on the lower end of the screen, and while drawing down upon the rod the upper sash will be lowered and simultaneously draw down the screen. If, however, it is desired to simply lower the upper sash, this may be accomplished by drawing down upon the operating-rod. It will thus be seen that the sash may work independently of the screen.

The lower cross-rail of the lower sash is provided with a recess in which is pivoted a combined catch and pull 20, which is adapted to be engaged with a strip at the end of the lower screen for the purpose of drawing the screen up when desired. A cam 21 may be employed for the purpose of holding the lower sash in its adjusted position.

From the foregoing description, taken in connection with the accompanying drawings, the construction and advantages of my invention will be readily understood without requiring further explanation.

If not desired, the screens may be allowed to remain in their casings, and when desired to be used may be easily connected with the sashes and will be lowered and elevated in unison with said sashes.

Should it be desired to replace the screens should they become worn or damaged, the front pieces of the casings are removed and the slides that support the spring-rollers are withdrawn, thus enabling new screens to be put in place.

Having thus described my invention, what I claim, and desire to secure by Letters Patent, is—

The combination with a window-frame, a screen-casing, a screen-roller in the screen-casing, a screen secured to the roller, the upper sash, a bar extending inwardly from the upper sash, a catch pivoted to the upper sash, an operating-rod carried by the bar, and a link connecting the operating-rod to the catch, whereby said catch may be caused to engage the screen and draw it down in the act of lowering the upper sash, substantially as set forth.

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

W. H. CASSELBERRY.

Witnesses:

FRANK. J. MILLER,
J. F. STRIEBY.