(No Model.)

O. HARLEY.

SCREEN.

No. 260,679. Patented July 4, 1882.

Fig. 1.

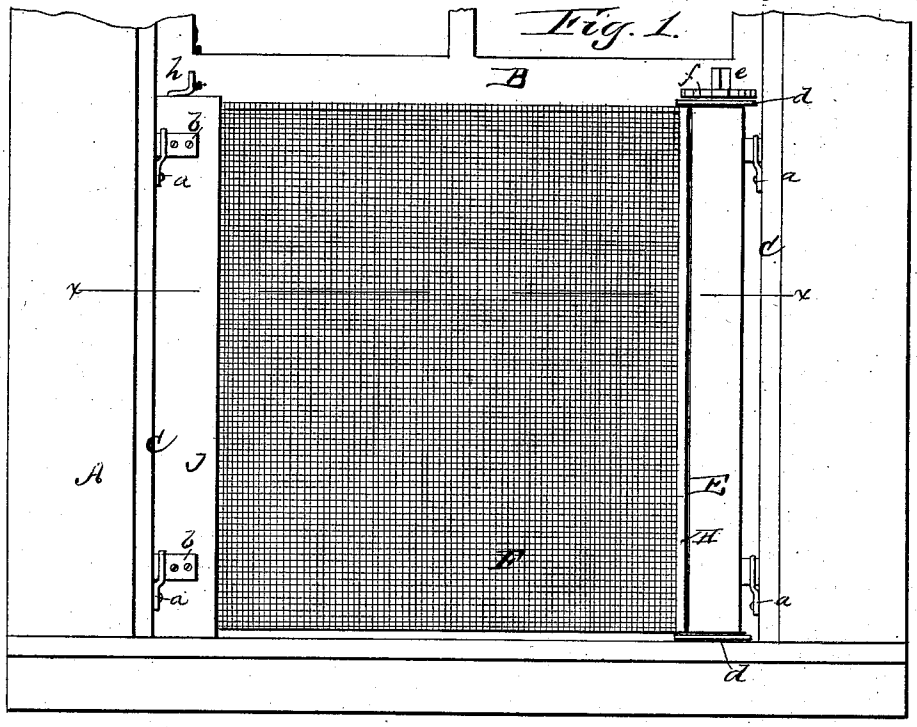


Fig. 2.

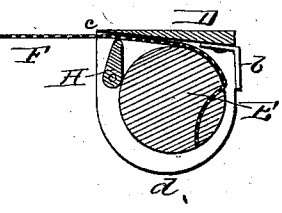


Fig. 3.

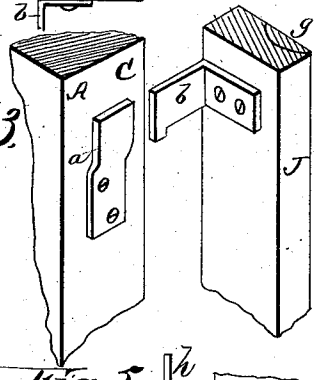


Fig. 4.

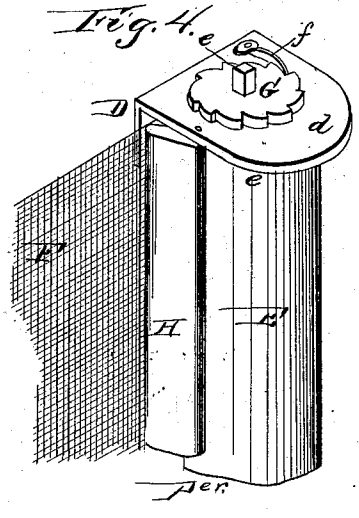
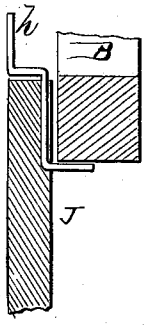


Fig. 5.



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UNITED STATES PATENT OFFICE.

OLIN HARLEY, OF BLUFFTON, INDIANA.

SCREEN.

SPECIFICATION forming part of Letters Patent No. 260,679, dated July 4, 1882.

Application filed April 4, 1882. (No model.)

To all whom it may concern:

Be it known that I, OLIN HARLEY, of Bluffton, in the county of Wells and State of Indiana, have invented certain new and useful Improvements in Screens; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form part of this specification.

This invention relates to screens which are designed for window-frames, and which are especially applicable to what is denominated "mosquito-netting," to be used during the summer time, when one of the window-sashes is removed.

The nature of my invention consists in certain novel devices, which are secured to the ends of the said netting, as will be hereinafter explained.

My invention also consists in the combination of a roller, a fastening device therefor, and means by which it can be wound up and unwound, with a tightening-bar for the netting and means which will hold up the sash, as will be understood from the following description, when taken in connection with the annexed drawings, in which—

Figure 1 is a front view. Fig. 2 is a horizontal section in detail. Fig. 3 is a perspective view of the fastenings for the screen. Fig. 4 is a perspective view in detail of the ratchet and pawl and the bar H. Fig. 5 is a horizontal section indicating the angular catch *h*.

A designates a window-frame of the well-known kind, with the inner sash removed, but the outer sash, B, in a raised position.

To the inner strips, C C, I secure thin metal tongue-fastenings *a*, four in number, which are adapted to receive hooked angular fastenings *b*. Two of these hooked fastenings are rigidly secured to a bar or frame, D, the inner vertical edge, *c*, of which is beveled, as shown in Fig. 2. The ends of this bar or frame are provided with head and foot pieces *d d*, which form horizontal flanged bearings for the pivotal extremities of a roller, E, around which is wound a screen or netting, F, made of any suitable material.

To the upper pivotal extremity, *e*, of the roller E is keyed a ratchet-wheel, G, with which a pawl, *f*, is adapted to engage for preventing the netting from unwinding from the roller. By means of a key applied to the prismatic end of the pivot *e* the roller can be turned and the netting drawn tight after all the parts have been adjusted to the window-frame. By detaching the pawl *f* from its ratchet-wheel the roller E can be turned backward for adapting the netting to window-frames of different widths.

H designates a bar, which is pivoted at its upper and lower ends to the head and foot pieces *d d* of the bar or frame D, and which is so arranged with reference to the beveled edge *c* of this bar or frame that when the bar H is adjusted, as shown in Figs. 2 and 3, it will hold one side of the netting closely against the bottom rail of the window-sash and also closely in contact with the beveled edge *c* of the said bar or frame D, thereby preventing the entrance of insects into the room.

J designates a flat strip, to which one edge of the netting F is secured by an inserted strip, *g*. This strip is provided with two of the hooks *b*, above referred to, which are adapted to engage with two of the tongue-fastenings *a*, applied to the strip C of the sash opposite to the roller E.

At the upper end of the flat strip J is pivoted an angular catch, *h*, which, when it is turned as shown in Fig. 5, will engage beneath the sash B and hold up the same.

It will be seen that my improved screen or netting attachment is adjustable for window-frames of different widths, that it is easily and cheaply applied to a window-frame, that the netting can be drawn taut and held snugly in contact with the lower rail of the sash when the latter is raised, and, finally, that it is provided with a device for safely holding the sash when it is fully raised. When the screen or netting attachment is not in immediate use it can be reduced to a very small compass for packing and transportation.

It is obvious that the netting may be attached to the roller by a strip let into a groove in this roller, as I have shown the netting attached to the strip J.

Having described my invention, I claim—

1. The combination of the angular catch *h*,

applied to the strip J, the fastenings for this strip, the netting, the netting-roller, the pawl and ratchet therefor, the bar to which the roller is applied, and the fastenings for this bar, substantially as described.

2. The combination of the bar D, beveled on one edge and provided with head and foot pieces *d d*, the hooked fastenings, a roller, a ratchet-wheel, and a pawl, a pivoted bar, H, the netting, the strip J, and the angular hooked fastenings therefor, all substantially in the manner and for the purposes described.

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

OLIN HARLEY.

Witnesses:
THOS. L. WISNER,
H. L. WISNER.