

No. 808,695.

PATENTED JAN. 2, 1906.

S. F. SMITH & S. S. SWEET.

WINDOW SCREEN.

APPLICATION FILED OCT. 10, 1904.

Fig. 1.

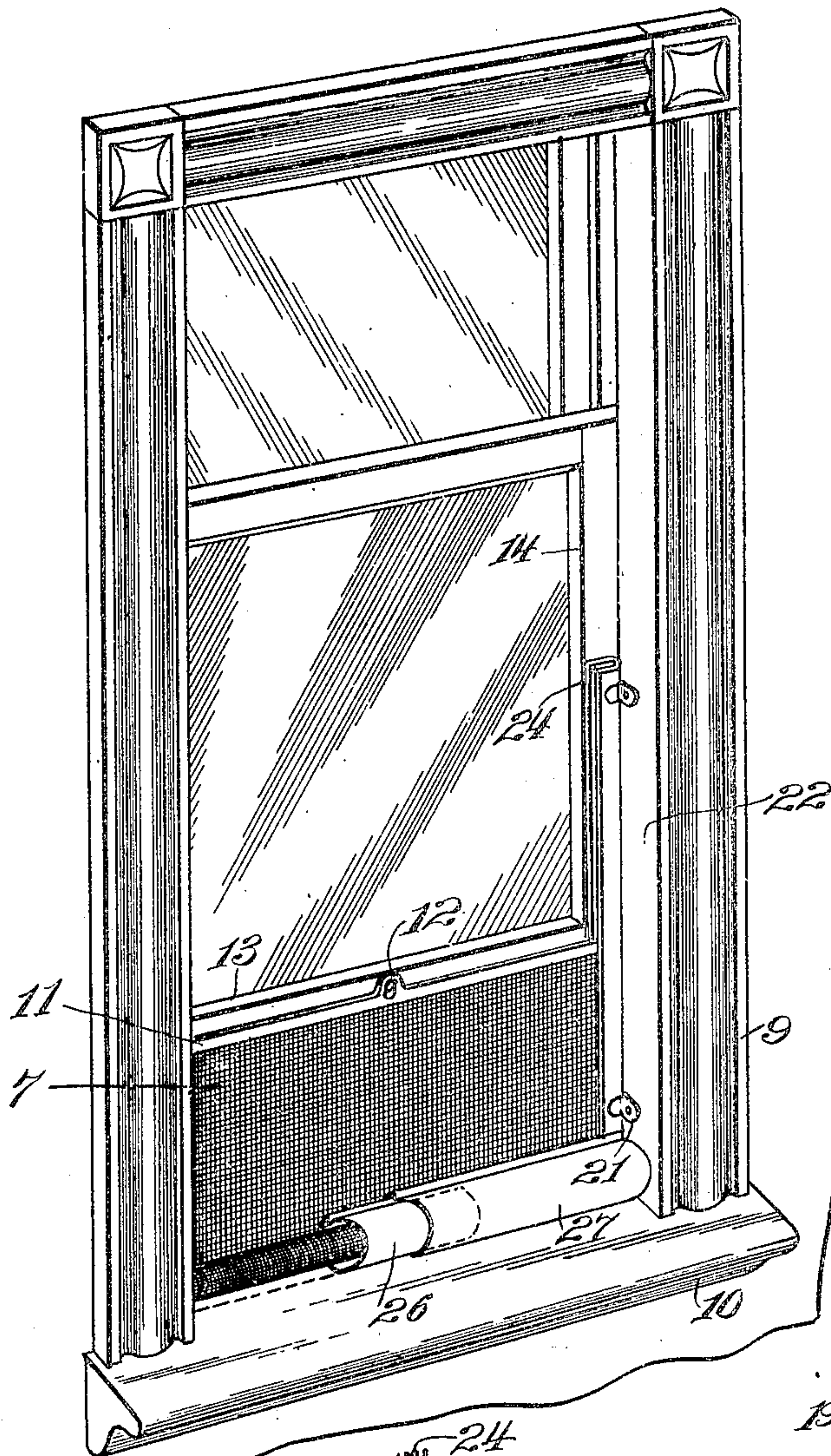


Fig. 3.

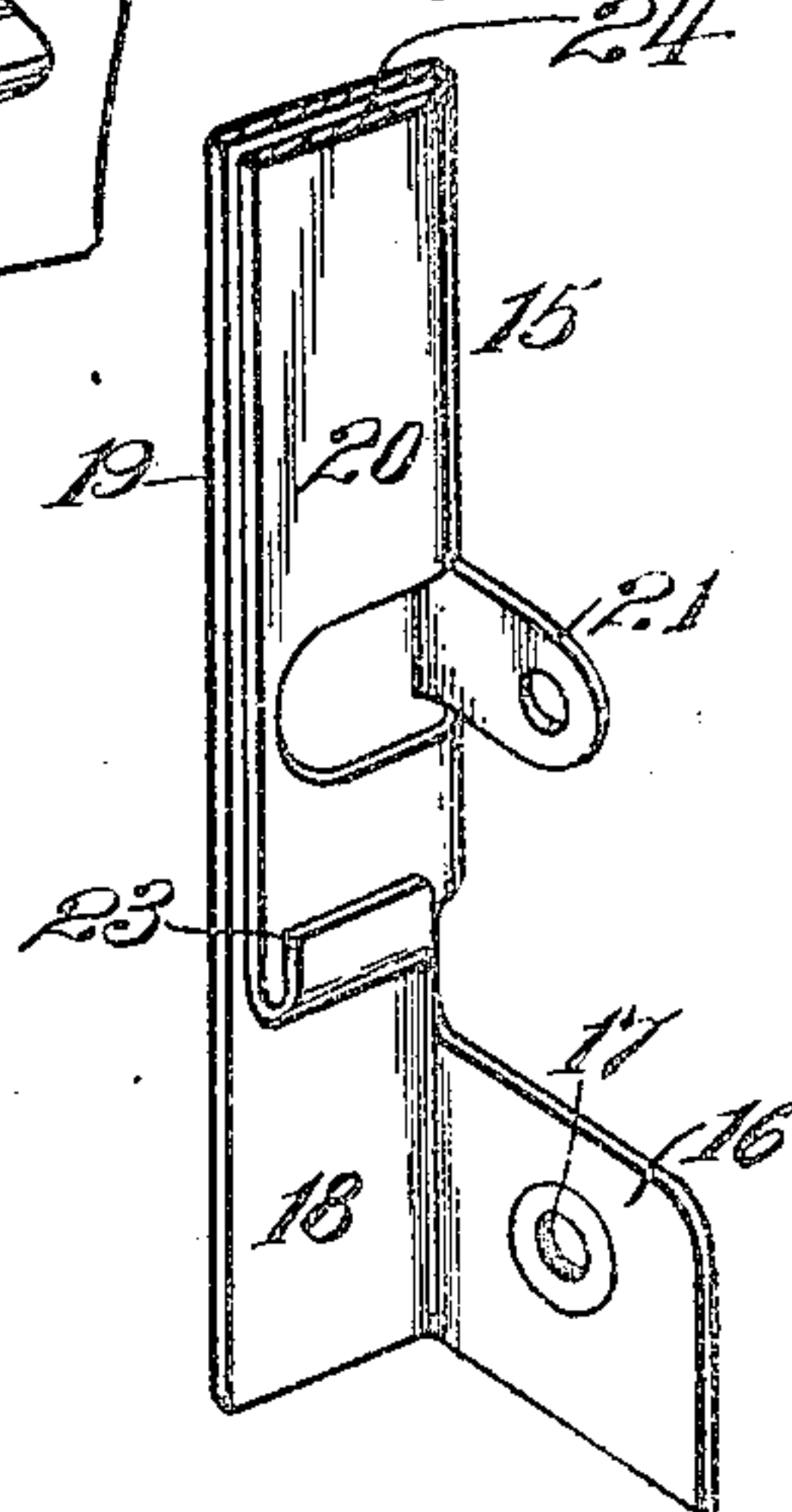
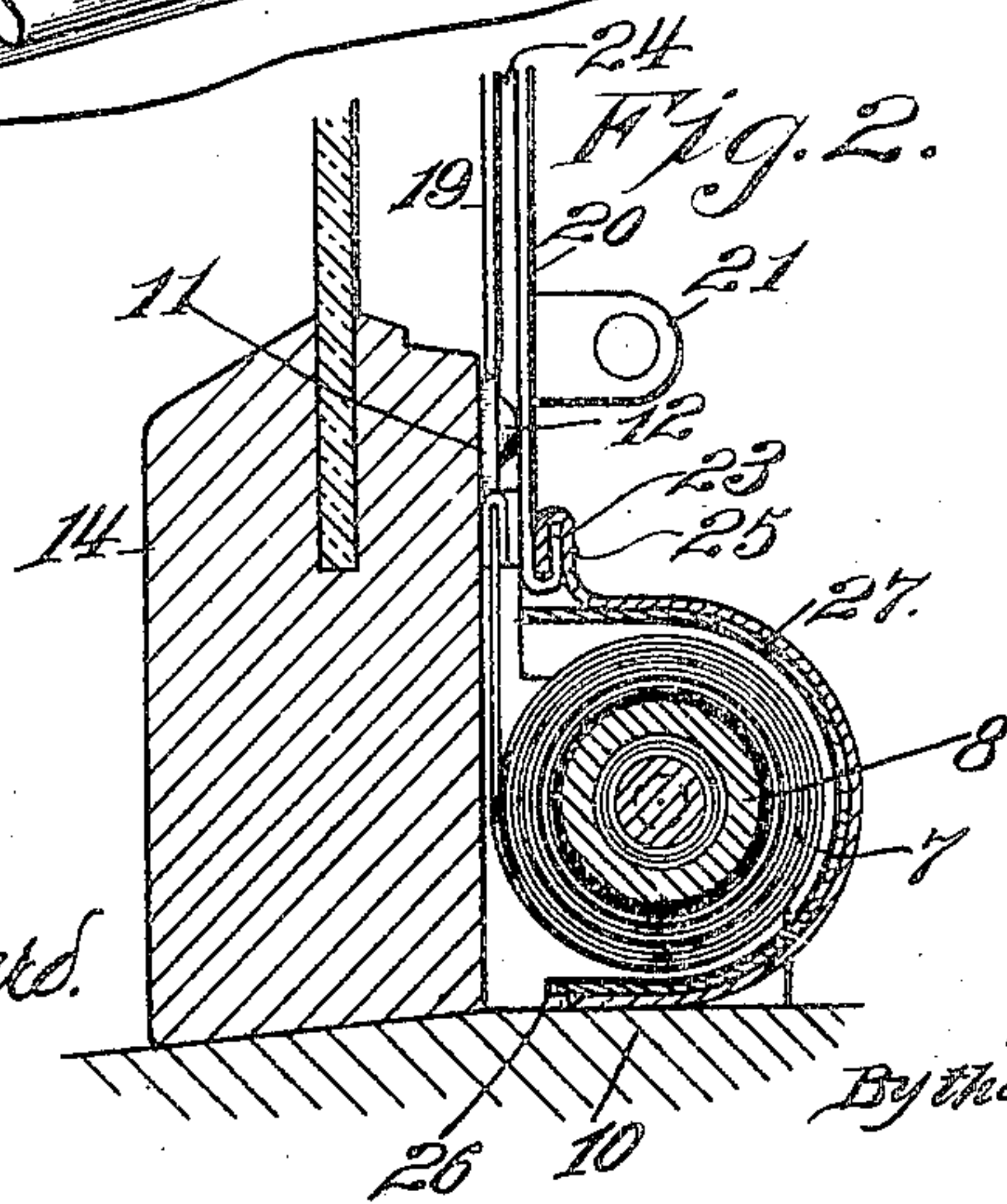


Fig. 2.



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UNITED STATES PATENT OFFICE.

SIDNEY F. SMITH, OF FREEPORT, AND STEPHEN S. SWEET, OF NEW YORK, N. Y.

WINDOW-SCREEN.

No. 808,695.

Specification of Letters Patent.

Patented Jan. 2, 1906.

Application filed October 10, 1904. Serial No. 227,780.

To all whom it may concern:

Be it known that we, SIDNEY F. SMITH, residing at Freeport, in the county of Nassau, and STEPHEN S. SWEET, residing in the borough of Brooklyn, New York city, in the county of Kings, State of New York, citizens of the United States, have invented certain new and useful Improvements in Window-Screens, of which the following is a specification.

This invention relates to and has for an object to provide an improved window-screen.

In the drawings accompanying and forming a part of this specification, Figure 1 is a perspective view of a window embodying a sash and casing and surrounded by a broken-away portion of the wall. Fig. 2 is an enlarged vertical section through the bottom rail of a sash and cross-section of the screen-roller and an elevation of a portion of the screen-guide. Fig. 3 is a perspective view of one of the guides and roller-fixtures removed, the upper portion of the guide being broken off.

One of the objects of this invention is to provide means whereby only the opening of an open window will be screened and the part which is not open will not be obstructed by a screen. This is accomplished by so organizing the several parts that upon the raising of the sash—assuming that the device is applied to the lower sash—the screen will raise with the sash and guard the opening made by the raising of such sash, so that the view from the window will not be marred by the interposition of a screen. To this end a screen 7 may be mounted upon a shade-roller 8, supported by the window-casing 9 adjacent to the sill 10. The screen being mounted in the nature of a shade may be termed a "shade-screen." The screen then will have a binding member 11 applied to its free end, which may fasten over a button 12 upon the bottom rail 13 of the window-sash 14, so that as the window-sash is raised and lowered the screen-shade will roll off or upon the roller in a well-known manner. Various kinds of screens and cloths may be employed for this purpose. There is upon the market a screen-cloth, known as "imitation-wire screen," which is well adapted for this purpose.

The screen to be effective in barring insects must be protected at the sides to prevent the same from being pushed or blown away

from the casing, and to which end we have provided guides or rails, (designated in a general way by 15,) which may in practice be struck up from a sheet-metal blank. Such guides will have a portion 16, affording bearings 17 for the screen-shade roller, which will correspond with the ordinary fixtures for such rollers. A portion 18 will also be provided to guard the small space left between the end of the roller, the screen, and the casing. The guide itself embodies two side portions 19 and 20, which will embrace the sides of the screen when traversing the opening 24 between them and may be bent near enough together to touch in some instances the binding member 11, and which binding member may be made of a relatively thin material—as, for instance, sheet metal—so that it will be very little thicker than the thickness of the screen, whereby the members 19 and 20 will lie closely to the faces of the screen and prevent the passage of insects around the sides of the screen. These members lying so closely to the edges of the screen, and which edges are unexposed, does away with the necessity of binding or hemming the edges of the screen-shade, thus reducing the expense and also permitting the screen to roll up much tighter upon the roll than one which is bound upon the edges. Of course any standard width of window netting or cloth may be provided with the proper selvage; but as windows are not made to standard widths the necessity of cutting the screen-cloth to suit the various windows would otherwise require binding the screen; but these guards, as above stated, obviate such requirement.

The guard members will be provided with struck-up lugs 21 for their securement to the casing, and in new work such lugs may be fastened to the casing by means of screws adapted for holding the stop-bead 22 in its position, and when such screws are employed upon the removal of the screens in the winter time there will be no screw-holes left to mar the appearance of such bead.

When the screen-shade is rolled up, and, in fact, in any position, the roll is exposed to dust and dirt and liable to injury from various causes, to guard against which the member 15 may be provided with securing devices, shown in the nature of hooks 23, and a sheet-casing may be provided to roll

around the screen-shade roll and rest upon the window-sill 10 and be provided with a hook 25 to engage the hooks 23. This device may be made in two parts 26 27, adapted to
5 telescope one with the other, which will adapt it for various-size windows and also enable its ready disassemblage from the other parts of the device.

Although this device has been shown in
10 connection with the lower sash of the window, yet it is apparent that it may be also attached to the upper sash with equally beneficial results.

Having thus described our invention, we
15 claim—

The combination with a window embodying casing and sill, of a sash movable therein, fixture members each struck up from a single sheet-metal blank and one of these se-
20 cured to each side of the casing by means of integral lugs and having a portion adjacent to the sill affording a bearing for a roller and

a portion affording a guard at the end of the roller and a portion affording a guideway and protector for the screen-shade, a roller 25 mounted in said bearing, a screen - shade upon such roller and traversing such guide and protector, and means for securing the end of such shade to the sash, and a guard surrounding the roller to protect the roll of 30 the screen - shade thereon, such guard embodying telescopic body portions having a hook at its top and having a portion adapted to rest upon the sill, and hook portions upon the fixture members for engaging said hook 35 upon the guard.

Signed at Nos. 9 to 15 Murray street, New York city, N. Y., this 30th day of September, 1904.

SIDNEY F. SMITH.
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Witnesses:

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