July 6, 1948. P. L. NEWBOLD 2,444,746

STORM WINDOW SUPPORT

Filed Sept. 6, 1946

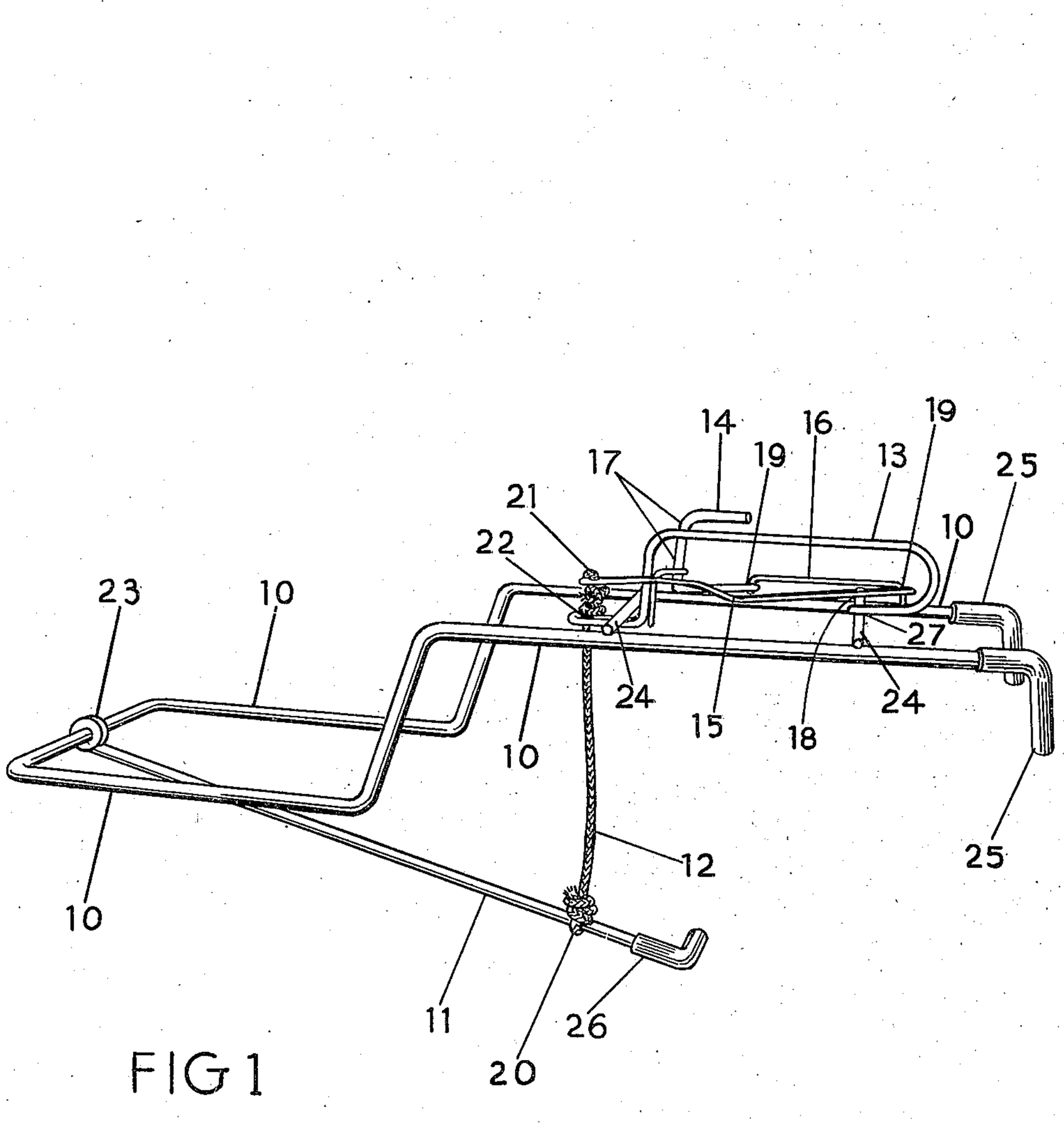

FIG 1

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Patented July 6, 1948 2,444,746

UNITED STATES PATENT OFFICE

2,444,746

STORM WINDOW SUPPORT

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Application September 6, 1946, Serial No. 695,086

1 Claim. (Cl. 248—236)

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This invention relates to a platform device to assist one in removing and replacing storm windows from upper story windows.

One of the difficulties experienced in doing this task is the inability to securely hold the storm window and at the same time attach it to the holding hooks at the top of the window frame.

It is the object of my invention to provide a device of simple and inexpensive construction so that storm windows may be removed or replaced, from the inside, in comparative safety.

Another object of my invention is to provide means for supporting the storm window until it has been engaged to the holding hooks.

Another object of my invention is to provide a device that is equally effective in removing and replacing window screens and it is understood that references to storm windows have a like relation to screens and are to be construed likewise.

Other and further features and objects of the invention will be more apparent to those skilled in the art upon a consideration of the accompanying drawings and following specifications, wherein is disclosed a single exemplary embodiment of the invention, with the understanding, however, that such changes may be made therein as fall within the scope of the appended claim, without departing from the spirit of the invention.

Figure 1 is a view in perspective of a storm window support constructed according to one embodiment of my invention. It also shows in particular the lever arragement for lifting the supporting brace to closed position.

Referring now to the drawing, a preferred embodiment of my invention includes a frame indicated generally at 10, a hinged brace at 11, connecting rope 12, and handle 13.

A thumb lever 14 is pivoted in the handle 13 at 17 and is connected to operating lever 15 at 19 by member 16. Lever 15 is pivoted on the rear cross-member 24 at 18. The brace 11 is hinged on the outward part of frame member 10 at 23, a connecting rope 12 is attached to brace 11 at 20 and extends upwardly through an opening in the forward part of the handle at 22, then knotted and engaged to the operating lever 15 at 21. Cross frame members 24 are engaged to side frame members 10 and handle member 13 is attached to members 24 at their centers.

The rearward ends of frame members 11 are bent downward at 25 for anchoring to the window ledge. Rubber is placed at 25 and at the lower part of brace 11 at 26 to avoid marring.

I preferably join these elements together so

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that when extended outwardly through a window opening the hinged brace 11 drops downward pulling rope 12 through opening 22 until knot in upper part of the rope 12 anchors at 22. The lower part of the brace 11 will rest against an outside wall and the hooks 25 are placed in position over the ledge of a window. The platform and cooperating hinged brace structure is so disposed that the weight of a storm window on the outward part of the frame members 10 exerts a tightening effect on the hooks 25 against the window ledge and securely holds the device in place. Furthermore, the outwardly end of the members 10 may be raised or lowered by adjusting the location of the knot that anchors at 22.

In use, to replace a storm window, the device is grasped by the handle 13, the thumb is placed against lever 14, and pushed to the right. This causes the lever 15 to move rearwardly and the rope 12 to move through the opening 22 to lift brace 11 to a position adjacent to the cross member 24. The device is now considered in a closed position and is placed through a window opening far enough for the folded brace 11 to clear the window sill, the thumb pressure on lever 14 is released thereby causing the brace 11 to fall downward until the knot anchors at 22. The hooks 25 are then placed over the window ledge on the inside. The device is now considered in place to support weight on the outward part of the platform.

The operator will grasp the storm window at its sides about twelve inches from the bottom and place through the open lower half of the window, then tipped upwardly and allowed to come to rest upon the platform. One then moves his arms upwards and at the most convenient place again grasps the sides and lifts the window into proper position to be hooked to the window frame. When this has been done, the window is pushed outwardly at the bottom thereby breaking contact with the platform. The handle 13 is grasped and thumb placed on lever 14 to withdraw brace 11 into closed position so that the device may be lifted from the window opening.

I claim as my invention:

In a storm window support the combination of a pair of parallel spaced side members made of strip material, each member bent downward at its rearward end to form a hook, and at a point forward of center, bent downward, thence continuing straightway in a manner that results in the outward parts of the side members being at a lower level than at their rear, a horizontal cross member connecting the side members at their

forward ends, a horizontal cross member engaged to the side members at a point adjacent to their rearward ends, a third horizontal cross member placed somewhat forward of the rear, a handle, with an opening in its outer end, attached to the two rear cross members, a hinged brace secured to the outward cross member, a lever pivotally connected to the forward part of the handle, an operating lever pivotally connected to the rear cross member, a connecting member between the two above levers, a flexible connecting member secured to the hinged brace,

adjacent to its rearward part, and extending upwardly through an opening in the forward end of the handle to connect with the operating lever.

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REFERENCES CITED

The following references are of record in the file of this patent:

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