

July 10, 1923.

1,461,648

G. W. BRYANT

WINDOW CLEANER'S LIFE NET

Filed July 2, 1921

Fig. 1.

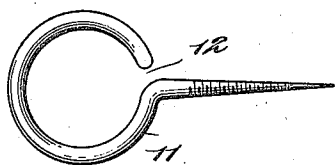
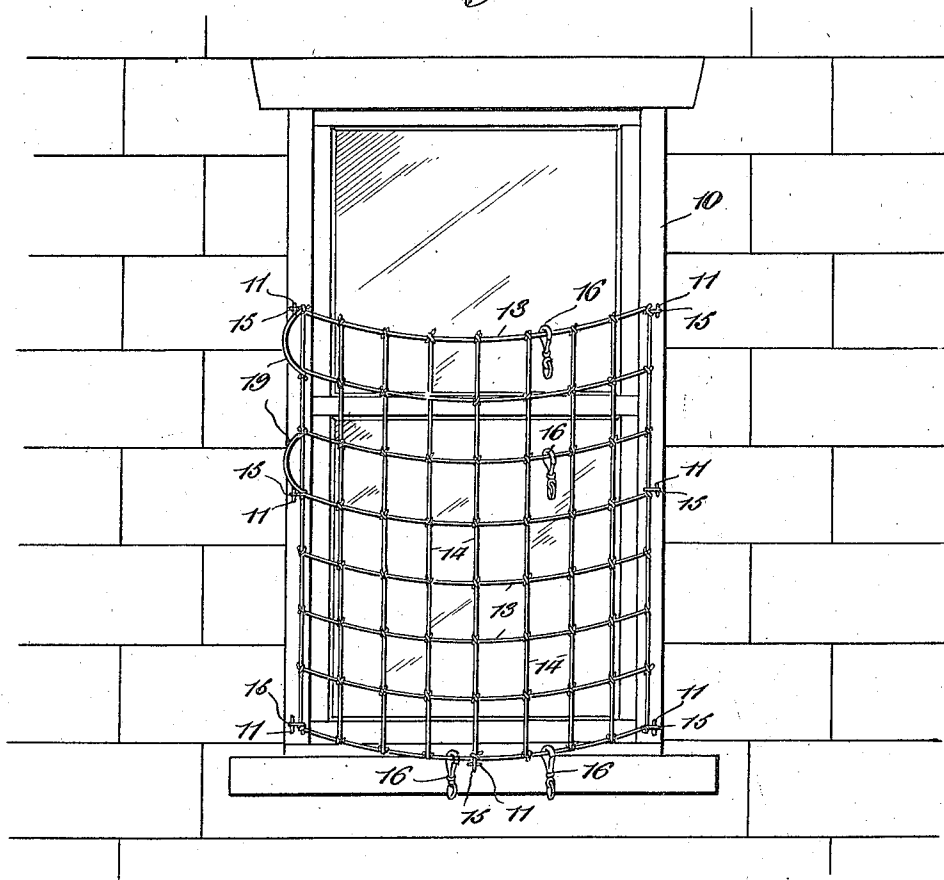


Fig. 2.

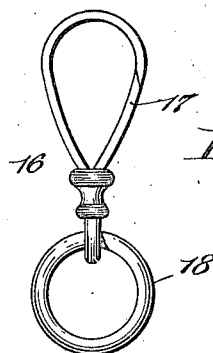


Fig. 3.

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UNITED STATES PATENT OFFICE.

GEORGE W. BRYANT, OF NEW YORK, N. Y.

WINDOW-CLEANER'S LIFE NET.

Application filed July 2, 1921. Serial No. 482,211.

To all whom it may concern:

Be it known that I, GEORGE W. BRYANT, a citizen of the United States, residing at New York, in the county of New York and State of New York, have invented new and useful Improvements in Window-Cleaners' Life Nets, of which the following is a specification.

This invention relates to life nets for window cleaners and the principal object is to provide a net which may be quickly and securely attached to the outside of a window without the necessity of a person extending more than his arms through the window for this purpose.

Another object is to provide a device of this nature which may be readily adjusted to various sizes of windows.

Another object is to provide a device of this kind which shall be simple in construction, cheap to manufacture and highly efficient for the purpose for which it is designed.

With these and other objects in view which will be more apparent as the specification proceeds, the invention resides in certain novel construction, and combination and arrangements of parts, the essential features of which are hereinafter fully described, are particularly pointed out in the appended claim and are illustrated in the accompanying drawing in which;—

Figure 1, is an elevation of a window with my improved device in place thereon.

Figure 2, is a detail view of one of the hooks, and

Figure 3, is a detail view of one of the snap hooks for adjustment of the device.

Like characters of reference refer to like parts in all views.

Referring to the drawing in detail, 10 represents a window frame into which are screwed or otherwise secured, a number of hooks 11, of which three are shown on each side of the frame and one at the center bottom thereof. One of these hooks is shown in detail in Figure 2 and will be seen to be constructed similarly to a screw eye but with a slight opening at 12 to permit the passage of the rings hereinafter described. It is very essential that this hook should be made as nearly closed as possible so as to

prevent the possibility of the securing rings slipping out of place therein.

The net itself is made from light hemp rope or any suitable flexible material of this nature and is preferably water-proofed so that there will be no tendency to stretch or shrink. In the drawing the cross-wise strands are numbered 13 and the vertical strands are numbered 14, said strands being knotted or otherwise secured to each other at their intersections so as to form a net. Secured to the edges of the net are rings 15 made of suitable size to just enter the aperture 12 in the hooks 11. Three adjustable snap hooks are shown at 16, each of said snap hooks comprising an upper portion having a spring tongue 17, the said upper portion being adapted to be snapped to the horizontal strands 13 between any two of the vertical strands 14. The lower portion of each of the snap hooks 16 is provided with a ring 18 similar to the rings 15 as to shape and size. The snap hooks 16 are for use when a window is narrower than the full width of the net, the snap hooks may be fastened to the net at any intermediate point and the portions 18 utilized in place of the rings 15 on one side of the net so that the net may be fitted to any size of window. At 19, the horizontal ropes 13 are shown as extended into loops so that when the net is folded these loops will form handles whereby the device may be carried in much the same manner as a shawl strap.

In use, it is preferable to first lower the upper sash of the window and hook the upper and intermediate rings 15 on the hooks 11 provided for them. The sashes are then both raised and the lower rings 15 are hooked on the corresponding hooks 11 whereby the net is securely positioned. In case the window is narrower than the net, the members 16 are adjusted accordingly and hooked on members 11 at one side of the window. It is of course understood that the members 11 are placed in the window frame and left there permanently.

What is claimed as new is:—

A window cleaner's life net comprising a flexible structure having vertical and horizontal strands of rope knotted at their in-

tersections, a plurality of permanently attached securing devices carried by the vertical margins of said structure, a plurality of adjustable and detachable securing elements secured to said structure between said margins, all of said securing devices being capable of co-acting with hooks adapted to be secured to a window sill, and handles secured to one of the marginal edges for permitting the structure to be carried when the same is in a folded condition. 10

In testimony whereof I have affixed my signature.

GEORGE W. BRYANT.