

H. M. SMITH.
WINDOW CLEANER'S SUPPORT.
APPLICATION FILED APR. 17, 1907.

917,175.

Patented Apr. 6, 1909.

2 SHEETS—SHEET 1.

FIG. 1.

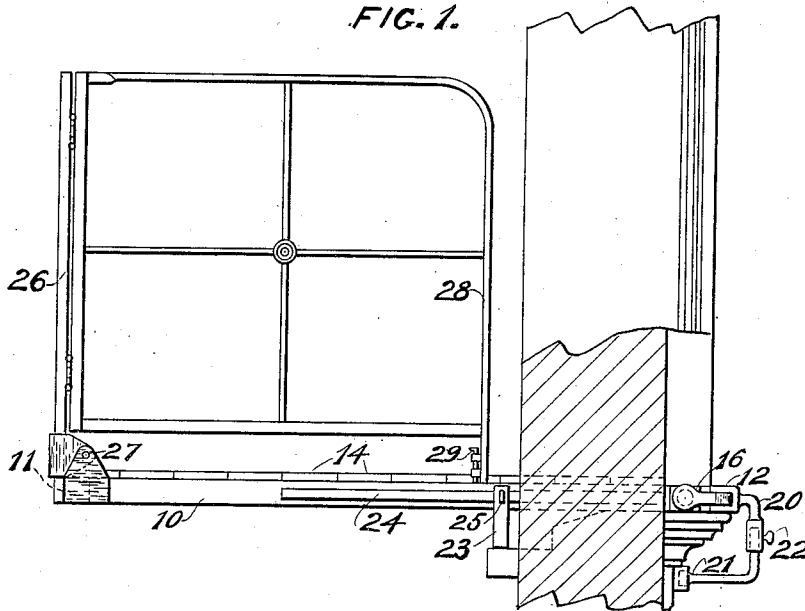
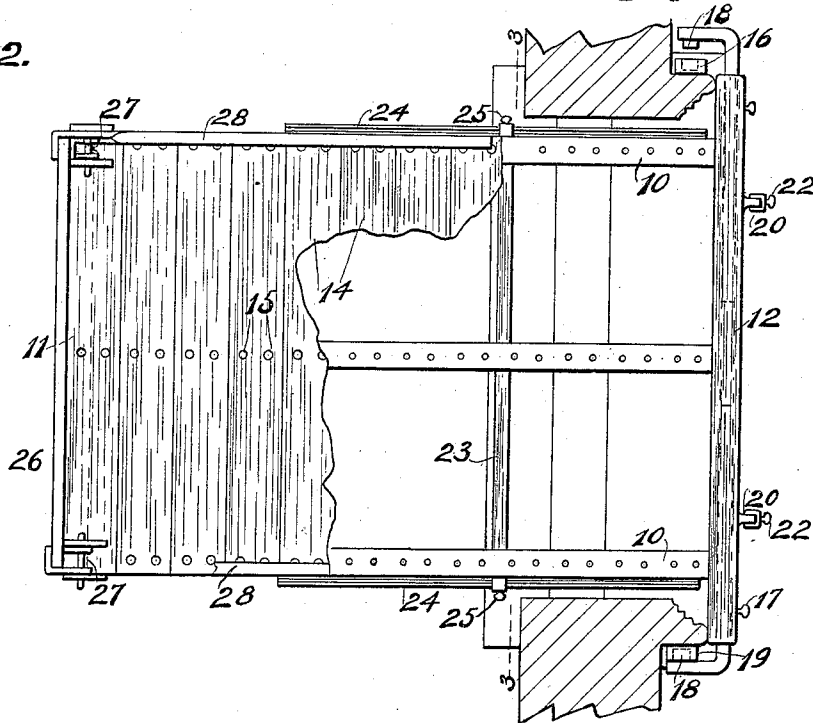


FIG. 2.



WITNESSES.

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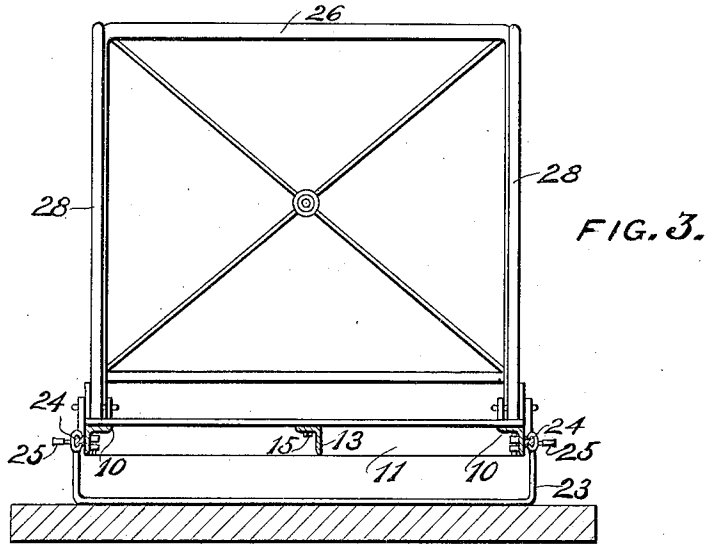
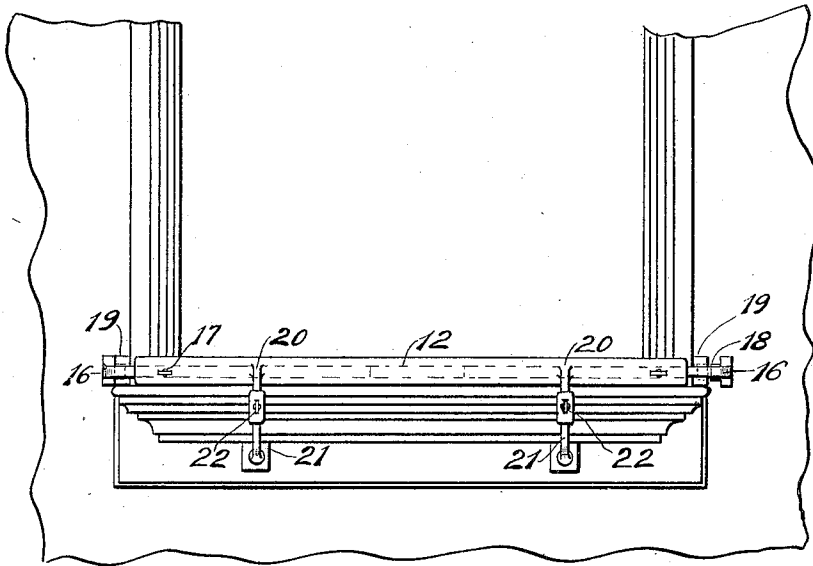


FIG. 4.



WITNESSES.

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UNITED STATES PATENT OFFICE.

HARRY M. SMITH, OF IRENE, SOUTH DAKOTA.

WINDOW-CLEANER'S SUPPORT.

No. 917,175.

Specification of Letters Patent.

Patented April 6, 1909.

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To all whom it may concern:

Be it known that I, HARRY M. SMITH, residing in Irene, in the county of Turner and State of South Dakota, have invented new and useful Improvements in Window-Cleaners' Supports, of which the following is a description, reference being had to the accompanying drawings, which are a part of this specification.

This invention has for its object to provide a window cleaner's support adapted to be readily attached to a window to afford a safe platform for the window cleaner on the outside of the building.

Another object of the invention is to provide such a device which will be adapted to be quickly and easily placed in position and removed therefrom and which will be convenient for moving from place to place, while being strong and durable in use.

Another object of this invention is to improve upon details of construction of a device of this nature.

With the above and other objects in view the invention consists in the window cleaner's support herein claimed, its parts and combinations of parts and all equivalents.

Referring to the accompanying drawings in which like characters of reference indicate the same parts in the several views; Figure 1 is a side elevation of a window cleaner's support constructed in accordance with this invention; Fig. 2 is a plan view thereof with a part of the flooring broken away; Fig. 3 is a sectional view of the plane of line 3—3 of Fig. 2; and, Fig. 4 is a view on the attaching means on the inside of the window frame.

In these drawings 10 represents a pair of side bars, preferably of angle iron construction, which are joined at their outer ends by an end bar 11 and at their inner ends by a tubular bar 12, preferably square in cross section, there being a central longitudinal bar 13 also of angle iron construction. All combine to produce a strong and rigid rectangular frame with a flooring 14 of narrow light wooden strips secured thereto by means of small bolts 15 passing through the strips and the flanges of the side bars 10 and the middle bar 13.

The tubular end bar 12 projects beyond the side bars 10 and is adapted to bear against the inside of the window frame while the frame of the platform rests upon the window sill, there being angular engaging arms 16

slidably mounted in the ends of the tubular bar so as to be adjustable, with set screws 17 threaded in the end bar for locking them in their adjustments. The engaging arms 16 carry clamping members 18 adapted to engage socket plates 19 on the sides of the window frame to prevent vertical movement of the platform. Tubular arms 20 at intermediate portions of the tubular bar 12 have angular engaging arms 21 which are slidable therein for adjustment and are locked in their adjustments by set screws 22 threaded in the tubular arms, said engaging arms 21 also having clamping members fitting in socket plates on the apron of the window frame, or that portion immediately below the window sill, in the same manner as with engaging arms 16.

By means of the adjustable engaging arms the platform may be rigidly held in position on the window frame against accidental displacement, the various engaging arms being adjusted so as to fit tightly in their respective socket plates and then tightly clamped in their adjustments by their set screws.

To further assist in holding the platform rigidly in place, a bearing rod 23 which is bent to a U-shape is slidably mounted on headed rails 24 on the side bars 10 of the frame by having C-shaped ends receiving the headed portions of the rails with set screws 25 therein to engage the heads of the rails for locking them in their adjustments. The bearing bar 23 is adapted to rest upon the window sill against the shoulder thereof and relieves the engaging arms to a considerable extent.

At the outer end of the platform is an end gate 26 which is hinged at 27 to the side bars 10 so as to swing downwardly thereon, and side gates 28 are hinged to the end gate so as to fold inwardly upon it and lie between it and the platform when the end gate is folded for moving from place to place. Each side gate 28 is provided with a catch 29 to engage the side rail 10 and lock the gates in their upright position, the end gate being prevented from swinging back by having its lower end extending below the hinge connection and engaging the end bar 11 of the platform frame.

With this invention a window cleaner may stand on the platform with perfect security, there being no danger of his stepping off because of the presence of the end and side

gates and the platform being securely held in place by its engaging arms and the end rod 12 and the bearing rod 23. The platform may be quickly and easily placed in position and removed therefrom and when it is collapsed it occupies a small space and is light and portable so as to be easily carried from window to window.

The adjustability of the clamping arms renders the device adapted for use with windows of different width and it is obvious that the device may be used for various other purposes where a platform is desired outside of a window.

What I claim as my invention is;

1. A window cleaner's support, comprising a platform adapted to rest upon a window sill, a tubular bar at the inner end of the platform to engage the sides of the window frame, angular engaging arms slidably mounted in the tubular bar, set screws for locking the engaging arms in their adjustments, and socket

plates secured to the window frame to be engaged by the engaging arms.

2. A window cleaner's support, comprising a platform adapted to rest upon a window sill, a tubular bar at the inner end of the platform to engage the sides of the window frame, angular engaging arms slidably mounted in the tubular bar, set screws for locking the engaging arms in their adjustments, downwardly extending tubular arms on the tubular bars, angular engaging arms slidably mounted therein, set screws for locking the said angular engaging arms in their adjustments, and socket plates on the sides and apron of the window frame to be engaged by the engaging arms.

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

HARRY M. SMITH.

Witnesses:

W. C. SMITH,
PHILOMEN P. SMITH.