

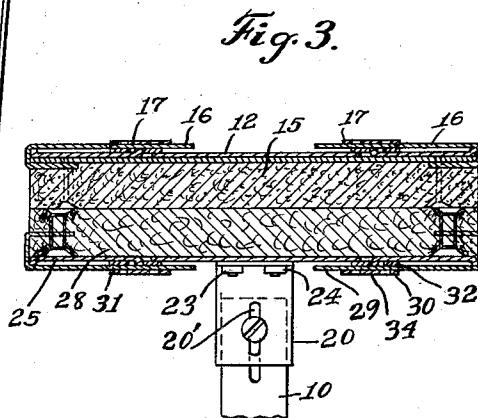
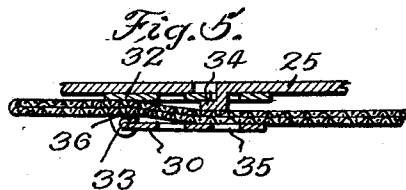
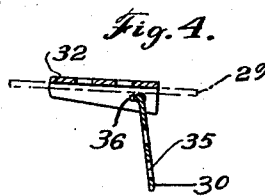
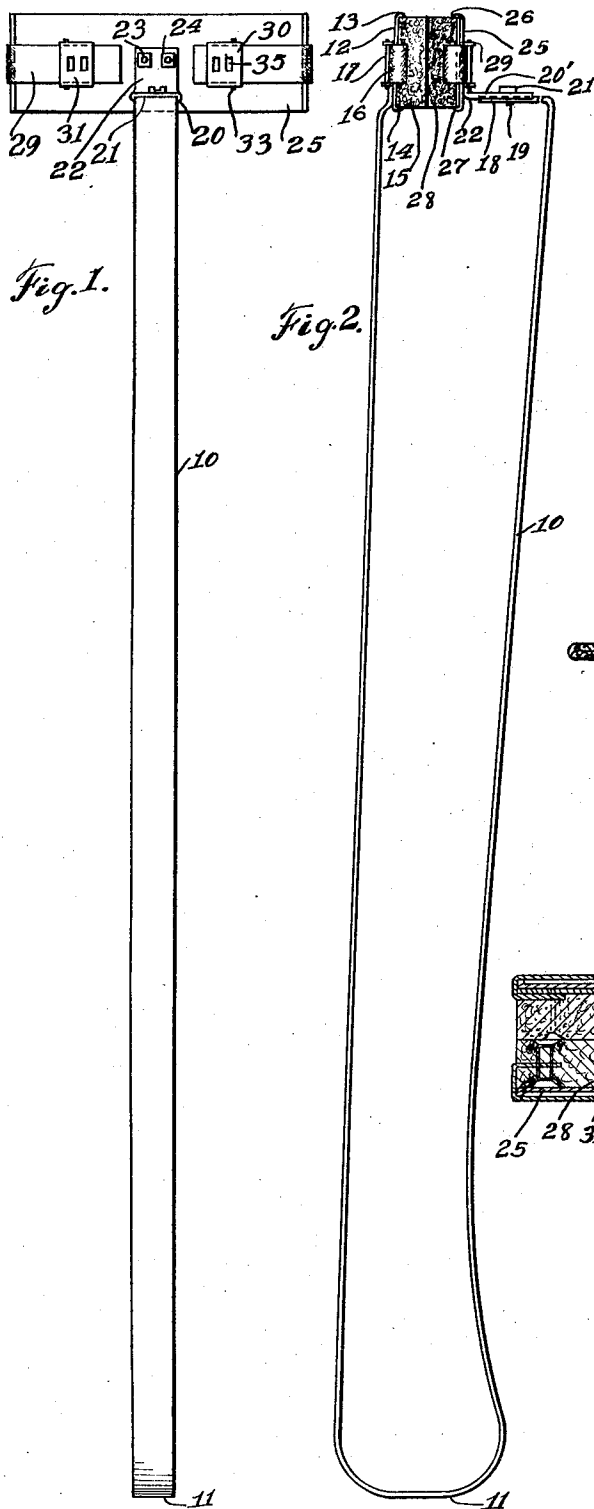
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A. SCHEMP

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WINDOW CLEANING DEVICE

Filed Dec. 14, 1929



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UNITED STATES PATENT OFFICE

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WINDOW-CLEANING DEVICE

Application filed December 14, 1929. Serial No. 414,001.

This invention relates to improvements in cleaning devices, particularly to a window cleaning device, and it is the principal object of my invention to provide a simple and inexpensive device for cleaning windows, yet efficient in operation and avoiding the danger resulting from the necessity of exposing the body of the cleaner to falls from a window, as the cleaning is done entirely from within a room.

Another object of my invention is the provision of a window cleaning device comprising a handle simply formed by bending a metal strap upon itself, the free ends of which carry at their oppositely disposed faces the cleaning implements.

A further object of my invention is the provision of a window cleaning device equipped with guide plates for the cleaning elements such as rubber sponge, etc., and with means for allowing an adjustment of these devices from and toward each other.

A still further object of my invention is the provision of a window cleaning device equipped with novel means for adjustably holding the cleaning elements to their plates allowing a tensioning of these holding means within certain limits, and for securing said holding and clamping elements to the carrier plates for the cleaning elements.

These and other objects and advantages of my invention will become more fully known as the description thereof proceeds and will then be specifically defined in the appended claim.

In the accompanying drawing, forming a material part of this disclosure:

Fig. 1 is a front elevation of a window cleaning device constructed according to my invention.

Fig. 2 is a side elevation thereof.

Fig. 3 is a sectional detail plan view of the head piece on an enlarged scale.

Fig. 4 is a detail view, of a clamp in section.

Fig. 5 is a fragmentary sectional detail view of a strap fastening.

As illustrated, the device comprises a handle 10, preferably in form of a metal strap bent upon itself to form a grip 11.

One of the branches of the handle has to its upper end attached an elongated plate 12 having an upper and lower inwardly directed flange 13, 14 formed therewith for the reception of a piece of cleaning sponge 15 exchangeably held to the inner face of said plate 12 by means of a pair of elastic bands 16 having their inner ends secured to said sponge, and guided and held at their outer ends by the clamping elements 17, as will be hereafter more fully described.

The other branch of handle 10 has its upper free end inwardly bent, as at 18, and slotted.

In this slot engages a pin 19 which also passes through a slot 20' in a sleeve 20 into which the inwardly bent part 18 engages, and pin 19 has a head 21. The sleeve has formed therewith an angular arm 22 secured with its upper end by means of bolts 23, and nuts 24 to the median part of the outer face of a plate 25 similar to plate 12 also equipped with upper and lower inwardly extending flanges 26, 27 for guiding a rubber body 28 in the opposite edges of which the inner ends of a pair of rubber bands 29 similar to bands 16 are secured, the outer ends of which are held in place on plate 25 by clamps 30, 31, constructed similarly to clamping elements 17.

Each of these pairwise arranged clamping elements 17, 30 and 31 comprises an inner slotted plate 32 to which the outer slotted plate 30 is pivotally secured by pintle 33.

A lug 34 struck from the material of plate 25 engages the slot in the inner plate 32 and as the slots in said plate are spaced and parallel to each other, a tensioning of the band will be possible within certain limits by engaging lug 34 with one or the other of said slots.

The outer plate 30 has similar slots formed therein, and as all clamp elements are constructed alike, the description of the connection of one will be sufficient. The outer plate 30 has its inner edge near the pintle 33 provided with teeth 36 engaging the band.

The operation of my device will be entirely clear from the above description and simultaneous inspection of the drawing, and it

will be evident, that the clamp elements such as rubber, sponge or cloth may be removably attached to their respective holder plates at the handle ends by means of the rubber bands clamped in the clamping elements which are then attached by engagement of the lugs 34 in the slots of the inner plate of the clamping elements. A limited adjustment of the tension of these bands will be possible by engaging the lugs in one or the other of said clamp plate slots.

It will be understood that I have described and shown the preferred form of my invention only and that I may make such changes therein as come within the scope of the appended claim without departure from the spirit of my invention.

Having thus described my invention, what I claim as new and desire to secure by Letters Patent is:

In a window cleaning device of the class described, having a handle, plates thereon, cleaning elements on said plates, and elastic bands holding said elements to said plates, pairwise arranged clamp-members for clamping the elastic bands holding the cleaning elements to their supporting plates, each of said clamp members comprising an inner slotted plate, lugs struck from said plates adapted to selectively engage the slots on said slotted plate to allow a tensioning of the bands within certain limits, and an outer slotted plate hinged to said inner plate, and teeth on said outer plate to engage said bands upon the closing of said outer plate against the inner plate.

Signed at New York, in the county of New York and State of New York, this 9th day of December, A. D. 1929.

ANTON SCHEMPP.