No. 813,800. PATENTED FEB. 27, 1906.

A. M. JOHNSON & D. H. ROWE.

WINDOW CLEANER.

APPLICATION FILED MAR. 6, 1905.

FIG. 1

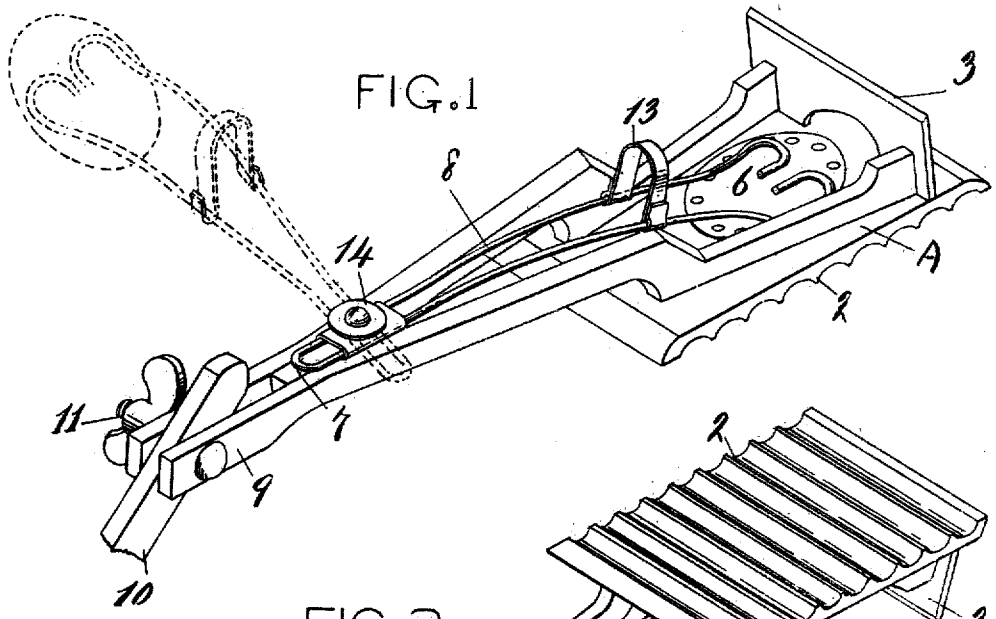



FIG. 2

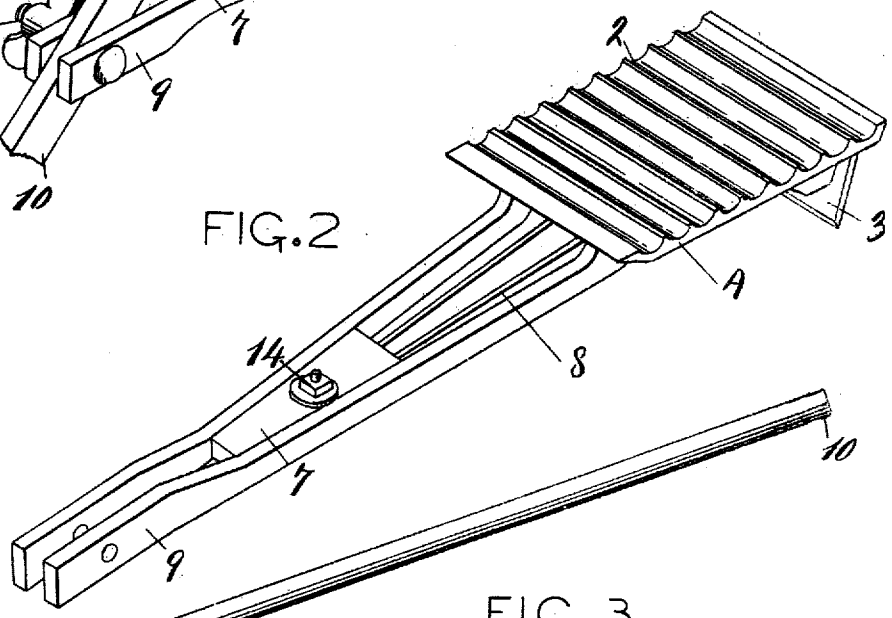
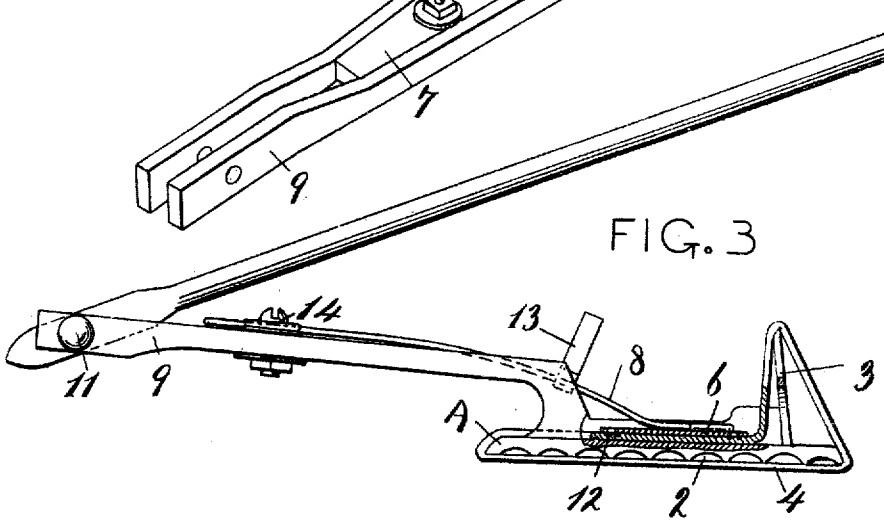



FIG. 3




Witnesses

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# UNITED STATES PATENT OFFICE.

ANNIE M. JOHNSON AND DAVID H. ROWE, OF OAKLAND, CALIFORNIA.

## WINDOW-CLEANER.

No. 813,800. Specification of Letters Patent. Patented Feb. 27, 1906.

Application filed March 6, 1905. Serial No. 248,619.

*To all whom it may concern:*

Be it known that we, ANNIE M. JOHNSON and DAVID H. ROWE, citizens of the United States, residing at Oakland, in the county of Alameda and State of California, have invented new and useful Improvements in Window-Cleaners, of which the following is a specification.

Our invention relates to window-cleaners. Its object is to provide a cleaning device which enables the operator to get at the outside of the window without exposure to the danger of a fall.

The invention consists of the parts and the construction and combination of parts, as hereinafter more fully described and claimed, having reference to the accompanying drawings, in which—

Figure 1 is a perspective view of our invention viewed from the top. Fig. 2 is a similar view from the bottom. Fig. 3 is a side elevation, in partial section, of the same.

A represents the body of the device, which is of suitable shape, size, and material. Preferably it is rectangular in outline and is transversely corrugated on its rubbing-surface, as shown at 2, and is provided on the opposite side at one end with an angularly-projecting plate or scraper 3.

Any suitable absorbent fabric or fibrous material, as 4, may be stretched over the corrugated surface of the body A and the ends brought up over the scraper and between the forks of the handle 5 and clamped beneath the spring-supported plate 6.

The forked handle extends back and upward from the body to permit of a sufficient handhold when the device is used close to the operator or in narrow spaces, the two forks of the handle being united intermediate of their ends, as shown at 7, to form a pivot-seat for the spring 8, which carries the presser-plate 6, and to strengthen the handle and to provide a bifurcated end portion 9, between which the long handle 10 may be clamped by means of the wing-screw 11.

The presser-plate 6 is studded with suitable projections 12 on its under surface, here shown as formed by punching small holes through the plate from the top side. These projections act as teeth to grip and securely hold the scrubbing, rubbing, or polishing cloth or chamois 4.

The spring may be provided with a finger-hold 13, whereby the end of the spring to which the presser-plate is attached may be lifted to permit of the removal or adjustment of the polishing medium 4, the spring being pivoted intermediate of its ends at 14 and turnable to one side or the other of the body.

The body A is preferably rectangular to allow it to be worked into all the corners of the sash. The corrugations 2 form a good scrubbing-surface and aid materially in holding the cloth in place. The scraper 3, over which the cloth is stretched, presents a comparatively sharp edge for removing such dirt as may not easily be washed off with the flat surface of the device. By omitting the cloth altogether the scraper will effectually remove paint and the like.

The handle-section 10 may be of any length to enable the operator to reach over the top or up from beneath any sash to clean all parts of the outside of a window. At the same time the section 10 may be tilted up and back to stand at an acute angle with the handle portion 5, as shown in Fig. 3, or may be entirely removed by loosening the wing-screw 11 to permit in either case the operator to hold the device close to the body A and work conveniently at close range or in a space too short for the use of the larger handled device.

A scrubbing or mop cloth can quickly be removed by lifting the spring by the finger-hold 13 and turning the spring to one side and a drier or polisher, of chamois, wool, or other suitable material, substituted and adjusted and clamped between the back of the body A and the plate 6.

Having thus described our invention, what we claim, and desire to secure by Letters Patent, is—

1. A cleaner consisting of a substantially rectangular body portion transversely corrugated on its working face and provided with an angularly-disposed rigid scraper-plate on its opposite side, a handle and means for removably holding the ends of a cleaning or like fabric on the back of the body portion.

2. A cleaning device comprising a body portion transversely corrugated on one side, a handle secured to the opposite side, an angular rigid scraper-plate secured to the handle side of the body, a fabric passed over the corrugated surface of the body and over said scraper and having its ends brought together on the back of said body portion and a spring-

clamp to hold the ends of said fabric, said spring-clamp being pivoted to the handle and arranged to swing laterally of said body.

3. A cleaning device comprising a body portion transversely corrugated on one side, a handle secured to the opposite side, an angular rigid scraper-plate secured to the handle side of the body, a fabric passed over the corrugated surface of the body and over said scraper and having its ends brought together on the back of said body portion, and a spring-clamp to hold the ends of said fabric.

4. A cleaning device comprising a rectangular body portion, a handle secured thereto, a spring pivoted intermediate of its ends to said handle and arranged to swing laterally of the body, and a presser-plate carried by said spring and arranged to impinge upon the back of the body.

In testimony whereof we have hereunto set our hands in presence of two subscribing witnesses.

ANNIE M. JOHNSON
DAVID H. ROWE.

Witnesses:
I. H. HEROLD,
W. H. BRUSO.