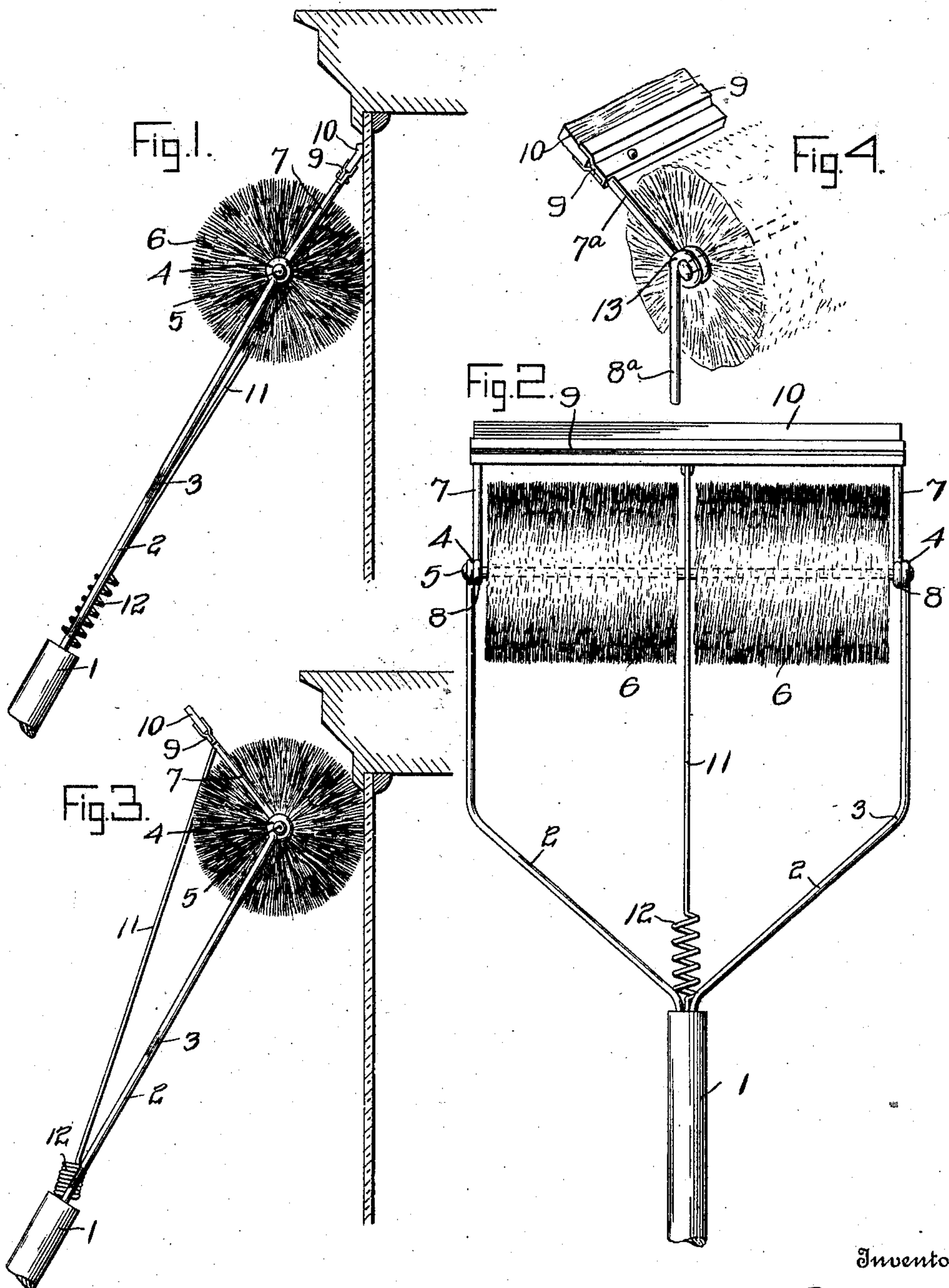


T. O'BRIEN.
WINDOW WASHER.

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Patented Mar. 14, 1911.



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WINDOW-WASHER.

987,010.

Specification of Letters Patent.

Patented Mar. 14, 1911.

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To all whom it may concern:

Be it known that I, THOMAS O'BRIEN, a citizen of the United States, residing at Peoria, county of Peoria, and State of Illinois, have invented certain new and useful Improvements in Window-Washers, of which the following is a full, clear, and exact specification.

This invention relates to a combination window washer and drier, and its primary object is, to provide a simple, efficient and inexpensive device of this character capable of applying water to window glass, and at the same time scraping the water from the glass, thus providing in a single implement a washer and drier, adapted to wash and dry the window with a single stroke of the device.

A further object of the invention is, to provide a combination window washer and drier in which the scraper or drier may be readily moved out of operative position to permit the washer to reach corners of the glass.

The invention comprises a suitably-mounted washer, preferably rotatable, in combination with a spring-controlled scraper adapted to operate above the washer.

The invention also consists of a cleaner or washer in combination with a spring controlled scraper or drier adapted to operate above the washer and capable of being moved out of operative position to permit the cleaner or washer to penetrate corners of the window glass or panes.

The construction of the improvement will be fully described hereinafter in connection with the accompanying drawing, which forms a part of this specification, and its novel features will be set forth and defined in the appended claim.

In the drawings:—Figure 1 is a side elevation of a window cleaner and drier embodying the invention applied to a window, the latter being shown in vertical section; Fig. 2 is a front elevation of the device; Fig. 3 is a side elevation showing the scraper or drier drawn outward into inoperative position to permit the cleaner or washer to be forced into the corners of window panes, and; Fig. 4 is a fragmentary perspective view of a modification.

The reference numeral 1 designates a handle of suitable length for window washing, from the upper end of which project

diverging arms 2 and 3 provided at their upper ends with eyes 4 serving as bearings for a shaft 5. Mounted upon the shaft 5 is a cleaner or washer 6 preferably of cylindrical form made of sponge, bristles, fiber, or like material. This cylindrical and rotatable cleaner may be a single cylinder, or formed in sections as shown in Fig. 2.

Pivotally attached to the shaft are two parallel arms 7 provided at their lower ends with eyes 8 and having secured to their upper ends a scraper consisting of oppositely disposed plates 9 between which is clamped a strip of rubber or other suitable material adapted to scrape or wipe the surface of the glass.

The numeral 11 designates a rod the upper end of which is pivotally secured centrally to the clamping plates 9, while its lower end is formed into a coil spring 12 secured to the handle 1 whereby the scraper-carrying arms 7 may be retained in alignment with the brush-carrying arms 3 or deflected therefrom and thus held, accordingly as it may be required to provide for the conjoint or separate use of said brush and scraper.

The utility and operation of the device will be readily understood from the foregoing description in connection with the drawing.

The rotary brush or cleaner after being dipped in water is applied to the glass in the usual manner and the scraper or wiper projecting above the cleaner wipes the glass, so that a single stroke of the implement accomplishes the double purpose of cleaning and wiping or drying the glass.

When it is desired to force the brush or cleaner into corners of the window panes an outward pull on the spring rod 11 will withdraw the scraper 10 to the position shown in Fig. 3 thus permitting the brush to reach the corners of the glass.

Normally the spring 12 holds the scraper in the position shown in Figs. 1 and 2, but as illustrated in Fig. 3 an outward pull upon the rod 11 causes the spring to contract to maintain the scraper in inoperative position.

In the modification shown in Fig. 4 the spring rod 11 is dispensed with and the arms 7^a and 8^a are formed integral and of resilient wire and are coiled around the shaft 5, the spring coils 13 serving the purpose of

the coil spring 12 shown in the other figures of the drawing.

It will be apparent that the improvement combines in a single and easily operated implement the functions of a rotary brush, and scraper, and hence materially lessens the labor of window cleaning.

The invention comprehends and includes all such modifications and variations of the details of the device as may fall within the terms and scope of the following claim:

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

15 A window cleaning device including a handle member, divergent arm members secured to said handle member and formed

with eyes at their outer ends, a rod member carrying a brush, said eyes of said divergent arm members forming bearings for said rod member, a scraper, means for effecting connection between said scraper and said rod, and an additional rod member having resilient connection with said handle member at one end and connected at its opposite end to said scraper. 20 25

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

THOMAS O'BRIEN.

Witnesses:

DAVID J. COWAN,
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Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."
