

No. 725,287.

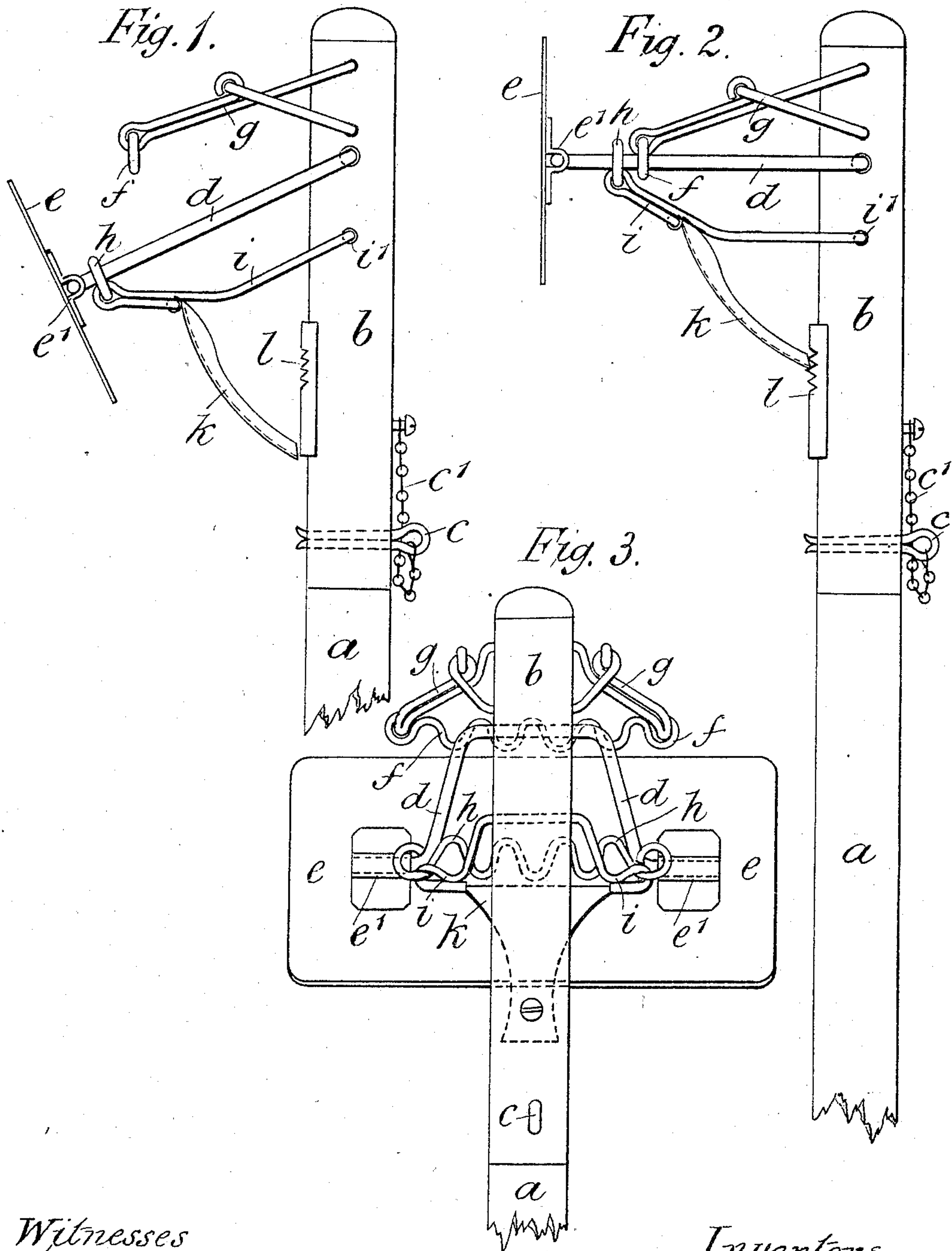
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A. ROBERTS, F. YOUNG & J. C. SMITH.

WINDOW CLEANER.

APPLICATION FILED AUG. 21, 1902.

NO MODEL.



Witnesses
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UNITED STATES PATENT OFFICE.

ALFRED ROBERTS AND FRANK YOUNG, OF LONDON, AND JANE CAROLINE SMITH, OF EASTBOURNE, ENGLAND.

WINDOW-CLEANER.

SPECIFICATION forming part of Letters Patent No. 725,287, dated April 14, 1903.

Application filed August 21, 1902. Serial No. 120,550. (No model.)

To all whom it may concern:

Be it known that we, ALFRED ROBERTS, foreman, residing at 83 Hollydale road, Peckham, S. E., in the county of London, FRANK YOUNG, fruit-merchant, residing at Monument Buildings, Pudding Lane, Eastcheap, E. C., in the city of London, and JANE CAROLINE SMITH, spinster, residing at 47 Jevington Gardens, Eastbourne, in the county of Sussex, England, all subjects of the King of Great Britain and Ireland, have invented certain new and useful Improvements in Window-Cleaners, of which the following is a specification.

This invention relates to an improved device for cleaning windows, and comprises means for gripping the cloth or other similar article used for this purpose and securing it to the end of a rod. For this purpose the end of the rod is fitted with a metal tube, to which is pivoted a bent or cranked brass or other metal rod or wire, the outer ends of which are cranked for supporting a metal plate pivoted thereto. The cloth is folded over the said plate, and its ends are gripped tightly to secure it thereto by means of two jaws or grippers formed, preferably, of stout galvanized wire which is waved or corrugated longitudinally to form projections and recesses for gripping the cloth when using the same. The upper jaw is supported at each end by wire frames or carriers fixed to the aforesaid tube above the pivoted rod or wire. The lower jaw is supported at each end by side rods or wires pivoted to the tube below the said rod or wire carrying the plate, and these side rods or wires carry a support or pawl, which when they are raised for gripping the cloth engages with a toothed plate or rack fixed to the tube for holding the said jaw in its locked position. The cloth is easily removed by disengaging the pawl or support from the rack and lowering the lower jaw.

In the accompanying drawings, Figure 1 is a side elevation of the device in its unlocked position. Fig. 2 is a similar view in its locked or gripping position, and Fig. 3 an elevation at right angles to Fig. 1.

a is the rod, and *b* the tube, fixed thereto by the pin *c*, carried by the chain *c'*.

d is the cranked rod or wire, and *e* is the plate pivoted to the ends of the same by means of the sockets or plates *e'*.

f is the upper jaw, and *g* the frames or carriers supporting the same and fixed to the upper end of the tube *b*.

h is the lower or movable jaw carried by the rods or wires *i*, pivoted at *i'* to the tube *b*, and *k* is the support or pawl fixed to the said wires.

l is the toothed plate or rack fixed to the tube *b* and with which the pawl *k* engages when the lower jaw is raised to its gripping position.

When using the device, the cloth for cleaning the window is folded around the plate *e*, and its two ends are placed between the jaws *f* and *h*. The lower jaw *h* is then raised so as to grip the cloth between it and the upper jaw *g*, the pawl or support *k* engaging with the rack *l*, and thus keeping the jaw *h* in its raised position, as shown in Fig. 2, and causing it to tightly grip and hold the cloth to the plate *e*. The operator then works or rubs the cloth over the surface of the window by means of a rod or handle *a*, the pivoted plate *e* permitting of the requisite movement of the latter.

Having now fully described the nature of our said invention, what we claim, and desire to secure by Letters Patent, is—

1. The improved device for cleaning windows comprising a tube fixed to the top of a rod, a plate carrying the cleaning-cloth, pivoted to the ends of a cranked rod or wire

itself pivoted to the said tube, a jaw for gripping the cloth fixed to the latter and a movable jaw carried by rods or wires pivoted to the tube and provided with a pawl or support
5 engaging with a rack on said tube substantially as described.

2. In a window-cleaning device the combination of a rod carrying fixed and movable gripping-jaws formed of waved or corrugated
to wire, a pivoted plate for carrying the cleaning-cloth, and a pawl or support engaging with a rack for locking the jaws in their gripping position, substantially as described.

In witness whereof we have hereunto set our hands in the presence of witnesses.

ALFRED ROBERTS.

FRANK YOUNG.

JANE CAROLINE SMITH.

Witnesses as to the signatures of Alfred Roberts and Frank Young:

JOHN MARPLE,

EDWIN BROCKLEHART FARLEY,

Witnesses as to the signature of Jane Caroline Smith:

S. MARSH,

MARY CARD.