

No. 842,979.

PATENTED FEB. 5, 1907.

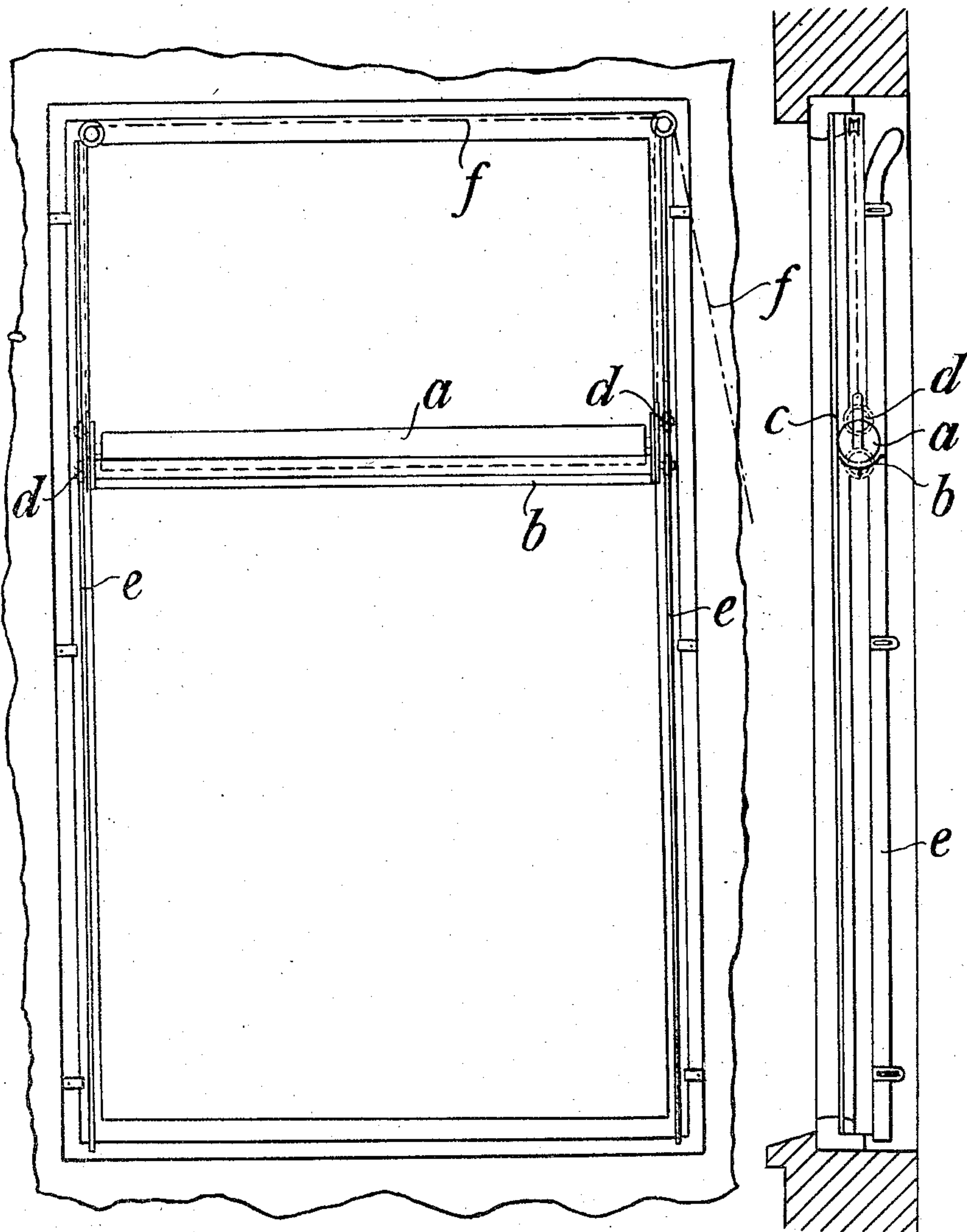
C. J. SCHULTZ.

DEVICE FOR CLEANING FROZEN WINDOW GLASSES AND FOR PREVENTING
THEM FROM FREEZING.

APPLICATION FILED MAR. 31, 1905.

Fig. 1.

Fig. 2.



Witnesses:

Zumber

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UNITED STATES PATENT OFFICE.

CHRISTOFFER JACOB SCHULTZ, OF FLENSBURG, GERMANY.

DEVICE FOR CLEANING FROZEN WINDOW-GLASSES AND FOR PREVENTING THEM FROM FREEZING.

No. 842,979.

Specification of Letters Patent.

Patented Feb. 5, 1907.

Application filed March 31, 1905. Serial No. 253,176.

To all whom it may concern:

Be it known that I, CHRISTOFFER JACOB SCHULTZ, a subject of the German Emperor, and a resident of Flensburg, Germany, have invented certain new and useful Devices for Cleaning Frozen Window-Glasses and for Preventing them from Freezing, of which the following is a specification.

This invention relates to a device which is intended to serve for removing and efficiently preventing the formation of ice on window-panes and the like, and more particularly on windows of very large dimensions, such as show-room or shop-windows.

In the annexed drawings, Figure 1 is a front view, and Fig. 2 is a sectional side view, of the device embodying the invention.

A horizontal trough *b*, of semicircular cross-section and adapted to receive a liquid ice-melting medium of any kind—such as, for instance, a solution of common salt—is arranged below and at some distance apart from a turnable horizontal cylinder *a*, which is arranged in front of the window *c*, so as to be in slight contact with the same, this cylinder being connected with the said trough. By means of rollers *d* and cords or chains *f* the cylinder *a*, together with the trough *b*, can be moved up and down along the window *c*, owing to the rollers *d* moving along vertical

guide-rods *e*, provided for this purpose at the sides of the window.

The transmission of the ice-melting medium on the window *c* is effected by the cylinder *a* dipping into the contents of the trough *b* and rotating on account of its slight contact with the window *c* when being moved up and down along the latter.

Having now fully described my said invention, what I claim, and desire to secure by Letters Patent, is—

In a device for removing and preventing the formation of ice on window-panes and the like the combination with a turnable horizontal cylinder arranged in front of the window-pane and in slight contact with the latter, of a trough adapted to receive a liquid ice-melting medium such as a solution of common salt, the cylinder dipping into this medium, means for moving the said cylinder together with the trough up and down along the window and means for guiding same during their up-and-down motion, substantially as and for the purpose described.

In testimony whereof I have hereunto set my hand in presence of two witnesses.

CHRISTOFFER JACOB SCHULTZ.

Witnesses:

JULIUS RÖPKE,
ARNO THURAN.