No. 678,361. Patented July 16, 1901.

G. A. FLAMMIGER.

DEVICE FOR CLEANING SHOW WINDOWS.

(Application filed Aug. 22, 1900.)

(No Model.)

Fig. 1.

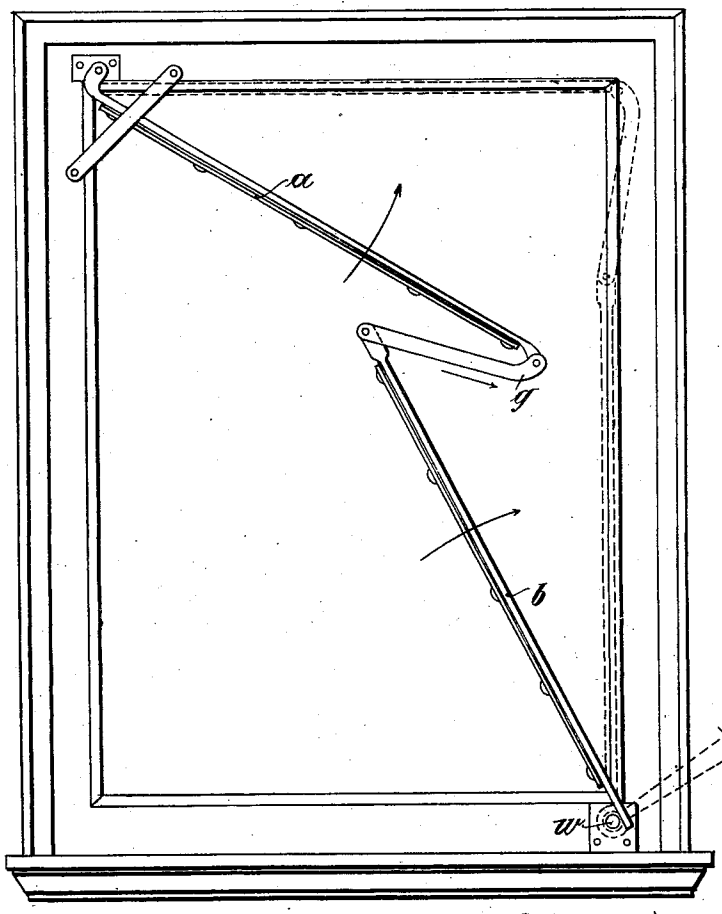


Fig. 2.

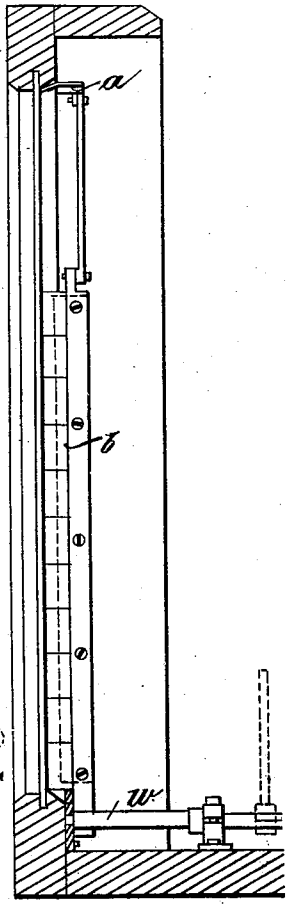
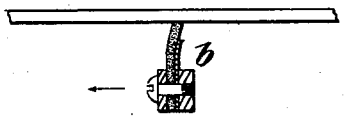


Fig. 3.



Witnesses
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UNITED STATES PATENT OFFICE.

GUSTAV A. FLAMMIGER, OF LEIPSIC-PLAGWITZ, GERMANY.

DEVICE FOR CLEANING SHOW-WINDOWS.

SPECIFICATION forming part of Letters Patent No. 678,361, dated July 16, 1901.

Application filed August 22, 1900. Serial No. 27,713. (No model.)

To all whom it may concern:

Be it known that I, GUSTAV A. FLAMMIGER, a subject of the German Emperor, residing at 32 Weissenfelserstrasse, Leipsic-Plagwitz, in the Kingdom of Saxony, Germany, have invented a certain new and useful Device for Cleaning Show-Windows, of which the following is a specification.

This invention has reference to a device for cleaning show-windows which is so constructed and arranged that the cleaning may be effected without the necessity of removing the objects which are exposed in the window, the device allowing of the inside of the window to be wiped clean rapidly and evenly from some place at a distance from the window.

My invention is illustrated by way of example on the accompanying drawings, which represent a preferred form of construction of my invention, Figure 1 being an elevation, and Fig. 2 an end view, with parts in section.

The device consists of the two bars *a* and *b*, which are attached to the window-frame or at some other suitable place and which are provided on their inside, next to the surface of the window, with a coating of leather, cloth, or the like, or any other suitable means for effecting the wiping of the interior surface of the window. Both bars *a b* are pivotally connected with the link *g*, while their free extremities may also turn upon their points of attachment. Preferably the said bars are arranged diagonally to each other. One of the bars, preferably the lower bar *b*, is pivoted with one extremity to a pin or short shaft *w*, upon which a crank is mounted, by means of which the bar *b* may be turned. The movement of the bar *b* will also cause the other bar, *a*, by the connecting-link *g*, to move, so that by the movement of the two bars across the surface of the window the cleaning operation may be easily and evenly effected. The length of the pin or shaft *w* is arranged in accordance with the depth of the show-case, the shaft being rotated from the outside by means of cranks, hand-wheels, or the like without the necessity of removing anything from the show-window in order to get at its surface.

What I claim, and desire to secure by Letters Patent of the United States, is—

In a device for cleaning and wiping windows, the combination of two bars for the support of the wiping or cleaning medium and pivotally attached to points diagonally opposite each other, of a crank-shaft of suitable length at the extremity of one of the said supporting-bars, the inner extremities of the said bars being pivoted to a connecting-link, substantially as described.

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

GUSTAV A. FLAMMIGER.

Witnesses:

RUDOLPH FRICKE,

CHAS. J. BURT.