

(No Model.)

W. P. B. URICK.

WINDOW.

No. 386,668.

Patented July 24, 1888.

Fig. 1.

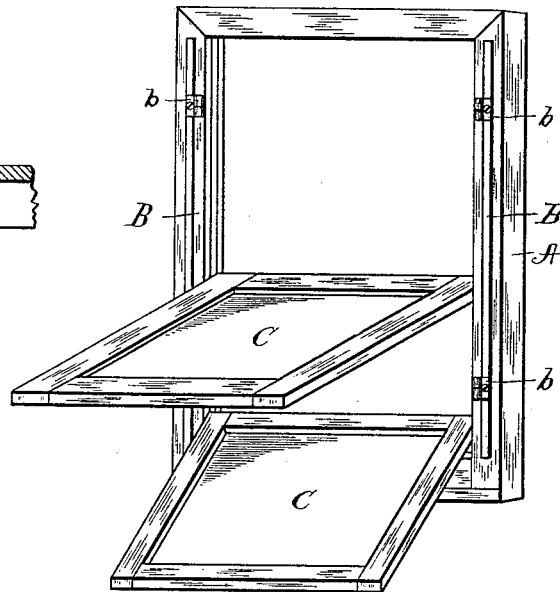
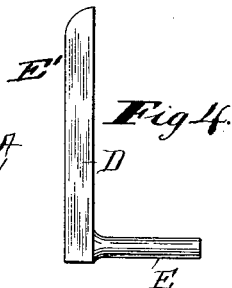
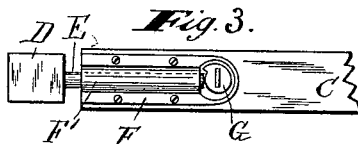
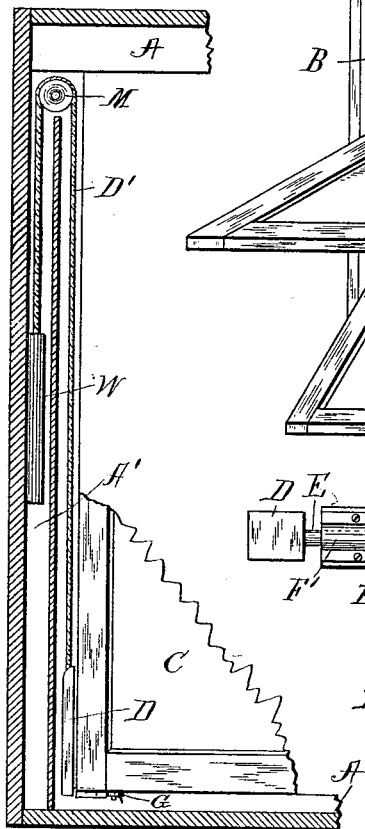


Fig. 2.



WITNESSES:

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WINDOW.

SPECIFICATION forming part of Letters Patent No. 386,668, dated July 24, 1888.

Application filed September 5, 1887. Serial No. 248,847. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM P. B. URICK, a citizen of the United States, residing at Newark, in the county of Essex and State of New Jersey, have invented a new and useful Improvement in Windows, of which the following is a specification.

My invention relates to improvements in windows; and it consists in providing the sash at each of its lower corners with an adjustable crank-shaped attachment, which is connected to the frame by means of a cord, chain, or metal strap, which passes over a pulley or drum at the respective upper corners of the frame.

The object of my invention is to enable the sash to be swung within the building at any angle to the frame, without wholly detaching it, for the purpose of cleaning, painting, or repairing the same; and, further, to overcome the necessity of the operator exposing himself to great danger by hanging on the outside of the window; also, to enable the entire window to be opened for ventilation.

Figure 1 is a perspective view of my invention with the sash swung at an angle to the frame. Fig. 2 is a sectional view of the frame, showing the crank-shaped attachment at the bottom of the sash, the cord, pulley, and weight. Fig. 3 is the lower side of the sash, showing the attachment for adjusting the sash in the frame at any point. Fig. 4 is a view of the crank shaped attachment detached from the sash.

In the accompanying drawings, the frame A is shown as provided with chambers A', in which hang weights W. To the respective inside edges of the frame is attached by hinges b a stop or cleat, B, which, when adjusted at an angle thereto, allows the sash C to be swung out from the frame. The sash has at each lower corner a plate, F, sunken in the bottom piece thereof, said plate being provided with an eye, F', and cam G. In the eye F' is placed the short arm E of the crank-shaped attachment D, the long arm E' of which is grooved to allow the fastening of the cord or strap D', which passes over the pulley or drum M and supports the weight W. The cam G is placed on the plate F at the rear of the eye F', and when turned presses against the short arm E of the crank-shaped attachment D, forcing it against the frame A and holding it fast, thereby

enabling the sash to be swung out from the frame, the short arm E acting as a pintle.

To more particularly describe the operation of my invention: When it is desired to swing the sashes at an angle to the frame, the cleats or stops B are swung out from the frame, the lower sash is raised, and cam G turned, pressing the crank-shaped attachment D against the frame, causing it to become stationary and the short arm E to act as a pintle upon which the sash turns, as shown in Fig. 1. The upper sash is then pulled down and the attachment D thereof made stationary in the same manner as the attachment of the lower sash. It will thus be observed that the upper and lower sashes by this means are rendered capable of being swung at any angle to the frame, and that the adjustment of the attachments D by means of the cams G prevent the weights W from acting on the sashes when the same are being washed or repaired. Furthermore, both sides of sashes hung in this manner are easily accessible from the inside of the building.

I claim as my invention—

1. A window the sashes of which are hung in the frame by attachments, the short arms of which engage in plates at the lower corners of the sashes, and the long arms of which are attached to the cords or straps supporting the weights in the frame, said sashes being adjustably secured at their lower corners at any point in the frame by means of cams acting against the short arms of the attachments, substantially as shown and described.

2. A window provided with swinging stops or cleats, and sashes hung from their lower corners by cords and attachments, said sashes being secured at any point in the frame by a cam acting against the short arms of the attachments, substantially as shown and described.

3. A window each sash of which is hung in the frame by cords and attachments, said attachments being crowded by a cam against the frame, forming fixed hinges upon which the sashes can be swung, substantially as shown and described.

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Witnesses:

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