(No Model.)

No. 256,644.

J. F. COX. WINDOW SASH.

Patented Apr. 18, 1882.











Inventor:

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UNITED STATES PATENT OFFICE.

JOHN F. COX, OF BROOKLYN, NEW YORK.

WINDOW-SASH.

SPECIFICATION forming part of Letters Patent No. 256,644, dated April 18, 1882. Application filed February 18, 1882. (No model.)

To all whom it may concern:

k., _

Be it known that I, JOHN F. COX, of Brooklyn, in the county of Kings and State of New York, have invented a new and useful Im-5 provement in Window-Sashes, of which the following is a specification.

The object of this invention is to facilitate the work of cleaning and glazing window. sashes and the ventilation of rooms.

IO sashes that may be turned on side pivots; and it consists in centrally pivoting to the edges of the hanging stiles, by means of a novel device, sliding pieces that move in the pulley-15 stiles, and to which the sash counterbalanceweights may be connected; and, further, of a sash pivoting or swiveling device of novel construction, and a novel diagonally-moving sash fastening and a locking device, all of which 20 will be hereinafter set forth.

frame with my improved sash in position. usual cord and counterbalance-weight may be Fig. 2 is a sectional elevation of a portion of attached in the customary manner to the said the same on line x x, Fig. 1. Fig. 3 is a crossstrips, as indicated at K, Fig. 2, for holding 2; section of a portion of the same on line y y, the sashes at any desired elevation. Fig. 1. Fig. 4 is an elevation of a portion of a sash, showing the sash-fastening device in throughout nearly the whole length thereof, position. Fig. 5 is a sectional elevation of my is] formed a mortise or socket, f, while in improved sash swiveling or pivoting device. each opposite strip, E, is formed a correspond-30 Fig. 6 is a plan of the same. ing socket or mortise, g. Fastening-tongues Similar letters of reference indicate corresponding parts. mortises f by means of pinsk, that pass through In the drawings, A represents a windowthe sash-stiles and the slots i, so that said sash frame, of which A' are the lining partingtongues H may be moved diagonally upward 35 strip beads, and B B' represent the upper and entirely within the mortises f, that the said lower sashes, respectively. It will be seen that the hanging stiles C of ots G^3 ; or said tongues H, when the sashes are the sashes B B' are reduced or cut away to restored to a vertical position, may fall of their enable them to swing clear of the parting strip own gravity diagonally downward, as indi-40 beads A'. In order to secure the said sashes cated in Figs. 3 and 4, into the opposite mor-B B' in place, sliding strips or pieces E E, adapted to fit in the pulley-stiles F, are prostrips E E locked and parallel with each other vided of equal depths and widths with the hangand closing the joints between them to keep ing stiles C, and to these strips E the sashes out the weather. 45 B B' are centrally pivoted on either side by A knob or lifter, m, secured in each tongue the pivoting or swiveling devices G. A swiveling or pivoting device, G, consists *n*, in the face of each hanging stile, serves as of a centrally-perforated plate, G', having on a handle by which to move the tongue H when its under side a collar, a, of smooth interior, it is desired to fix the sashes in vertical posi-

of a second centrally-perforated plate, G², hav- 50 ing on its under side a collar, b, of screwthreaded interior, and of a screw-bolt, G³, designed to enter through both plates G' G², and to screw fast in the collar b of the latter, while the plate G' may turn or swivel freely 55 about the smooth upper portion of the said screw-bolt shank.

The plates G' are secured to the outside The invention relates to that class of windowfaces of the sliding strips E E by screws (not shown) passing through the plate-holes c c, 60 the collar *a* being inserted in a corresponding socket, d, formed in said strips E, and the plates G² are in like manner secured upon the outer faces or edges of the sash-hanging stiles C. Then the screw-bolts G^3 are inserted in place, 65 as indicated in Figs. 3, 5, and 6, and screwed in as tightly as may be consistent with the free swiveling of the said sashes B B'. The sashes B B', with their connected side strips, Figure 1 is a front elevation of a window-E E, are then set in place, and, if desired, the 70 In the edge of each sash-hanging stile, and 75 H, having diagonal slots *i*, are held in the 80 sashes B B' may be turned freely on their piv. 85 tises, g, thereby holding said sashes and the 90 H, and projecting out through a diagonal slot, 95

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tion, or to unfasten and turn them in any other position.

When the sashes B B' are closed they may be firmly held together, so that they cannot be 5 opened from the outside nor be rattled by the wind, by means of a thumb-screw, I, that is passed from the inside through the horizontal meeting stiles, as indicated in Fig. 1.

Window-sashes constructed and arranged ing the sash and sliding strips parallel with to in this manner can readily be turned at any each other, as set forth. desired angle and be reversed for the purposes 3. In a window-sash, as a means for pivoting 35 of ventilation, cleaning, or glazing, whereby the sash to the side sliding strips, the combinagreater comfort to the occupants of the room tion therewith of the pivoting device G, conand the safety of those working upon the sisting of plate G', provided with collar a, of 15 windows are assured. smooth interior plate, G², provided with collar I am aware that it is not new to swivel or b, of screw-threaded interior and screw-bolt 40 pivot window-sashes; hence I do not broadly G³, arranged and operating substantially as claim a pivoted or swiveled window-sash; but herein shown and described. Having thus described my invention, I claim JOHN F. COX. 20 as new and desire to secure by Letters Patent-1. A window - sash constructed substan-Witnesses: tially as herein shown and described, consist-JACOB J. STORER, M. T. WHELPLEY. ing of mortised sash B, mortised sliding strips

E, diagonally-moving tongues H, and pivoting devices G, all arranged and operated as set 25 forth.

2. The combination, with the sash B, having edge-mortises f, diagonal slots n, and pins k, and sliding strips E, having vertical mortices g, of the tongues H, having diagonal 30 slots *i*, substantially as herein shown and described, said tongues being adapted for hold-

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