

UNITED STATES PATENT OFFICE.

JOHN EDWARD KREIDLER, OF FULLERTON, NEBRASKA.

SASH-FASTENER.

SPECIFICATION forming part of Letters Patent No. 422,597, dated March 4, 1890.

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To all whom it may concern:

Be it known that I, JOHN EDWARD KREIDLER, of Fullerton, in the county of Nance and State of Nebraska, have invented certain new and useful Improvements in Combined Sash Holders and Locks, of which the following is a specification.

The invention is illustrated in the accompanying drawings, in which—

10 Figure 1 is a central vertical longitudinal section of portions of the upper and lower sashes of a window, showing the improvements applied thereto. Fig. 2 is a horizontal fragmentary cross-section of the upper sash, looking down upon the top meeting-rail of the lower sash. Fig. 3 shows details of the hanger-dog; and Fig. 4 shows details of the tightening-runner or draw-bar, which is carried by the lower sash.

20 In the drawings, *c* is the upper rail of the upper sash.

h is the lower meeting-rail of the upper sash, and *o* is the central sash-bar of the upper sash. Of the lower sash, which is only fragmentarily represented, *i* is the upper meeting-rail, and *j* is the sash-bar. Secured to the central sash-bar of the upper sash is a longitudinally-extending track *g*, which is longitudinally-grooved on both sides. This track extends almost the entire length of the upper sash, and its upper portion is formed with a hooked or pronged end *f*. The upper sash is held uplifted or in its closed position by means of a pivoted dog *e*, which is pivoted between the ears of a bracket *d*, secured to the upper parting-stop *b* in the head of the window-jamb. This dog *e* has projecting prongs or hooks *w*, which engage beneath the hooked or pronged end *f* of the grooved track. When the dog is thus engaged with the track, the upper sash is held uplifted. In order to lower the upper sash, it is merely necessary to disengage the dog *e*. Owing to the shown construction of the dog, the upper end of the grooved track will automatically engage therewith when the upper sash is lifted.

45 Secured to the upper or meeting rail of the lower sash is a metallic plate *k*, having an upwardly-extending central boss *l*. Resting and sliding upon this plate *k* is the tightening-runner or draw-bar *m*, which has a slot *g*, fit-

ting over the boss *l*, projecting ears *h h*, which fit and slide in the opposite grooves of the grooved track *g*, and an upwardly-projecting flange *p* on its forward edge. Turning on the boss *l* and resting on the draw-bar is a cam or eccentric plate *x*, having projecting ears *n n* for turning the same. The cam or eccentric plate *x* is held in position by a screw *r*, tapping into the boss *l*.

60 The operation of the invention is as follows: When it is desired to lock the two sashes, the cam or eccentric plate is turned, so that its periphery acts upon the flange *p* of the draw-bar *m*, thus forcing the draw-bar outwardly, and so bringing into close contact the meeting-rails of the two sashes, the ears *h h* of the draw-bar binding tightly in the grooves of the grooved track, so as to prevent any upward movement of the lower sash. When it is desired to raise the lower sash, the cam or eccentric plate is loosened, so that the ears *h h* of the draw-bar are free to slide freely in the grooves of the grooved track. The lower sash can thus be raised any desired distance, and it can be held in any desired position by again tightening the cam or eccentric plate. When it is desired to lower the upper sash, the dog *e* is swung outwardly, so as to release the upper sash. The upper sash is then lowered, and is held in any desired position by tightening the cam or eccentric plates.

I claim as my invention—

1. The upper sash of a window provided with a longitudinally-extending grooved track, in combination with the lower sash, a sliding draw-bar on said lower sash having ears engaging in the grooves on said grooved track, and a cam or eccentric plate on said lower sash co-operating with said sliding draw-bar to move the same, substantially as set forth.

2. The upper sash of a window, a longitudinally-extending grooved track on said upper sash, said grooved track having its upper end hooked or pronged, and a hanger-dog pivoted to the upper portion of the window-jamb and having hooks or prongs engaging the upper end of said grooved track, in combination with the lower window-sash, a sliding draw-bar on said lower sash, said draw-bar having ears engaging the grooves in said

grooved track, and a cam or eccentric plate on said lower sash co-operating with said sliding draw-bar to operate the same, substantially as set forth.

- 5 3. The upper sash of a window having a suspending hook or prong *f* near its top, in combination with a bracket *d*, secured to the upper part of the window-jamb above the up-

per sash, and a dog *e*, pivoted to said bracket and having projecting prongs or hooks *w*, engaging said hook or prong *f*, substantially as set forth. 10

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Witnesses:

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