

No. 707,039.

Patented Aug. 12, 1902.

J. WANLESS.
WINDOW LOCKING DEVICE.

(Application filed Dec. 19, 1901.)

(No Model.)

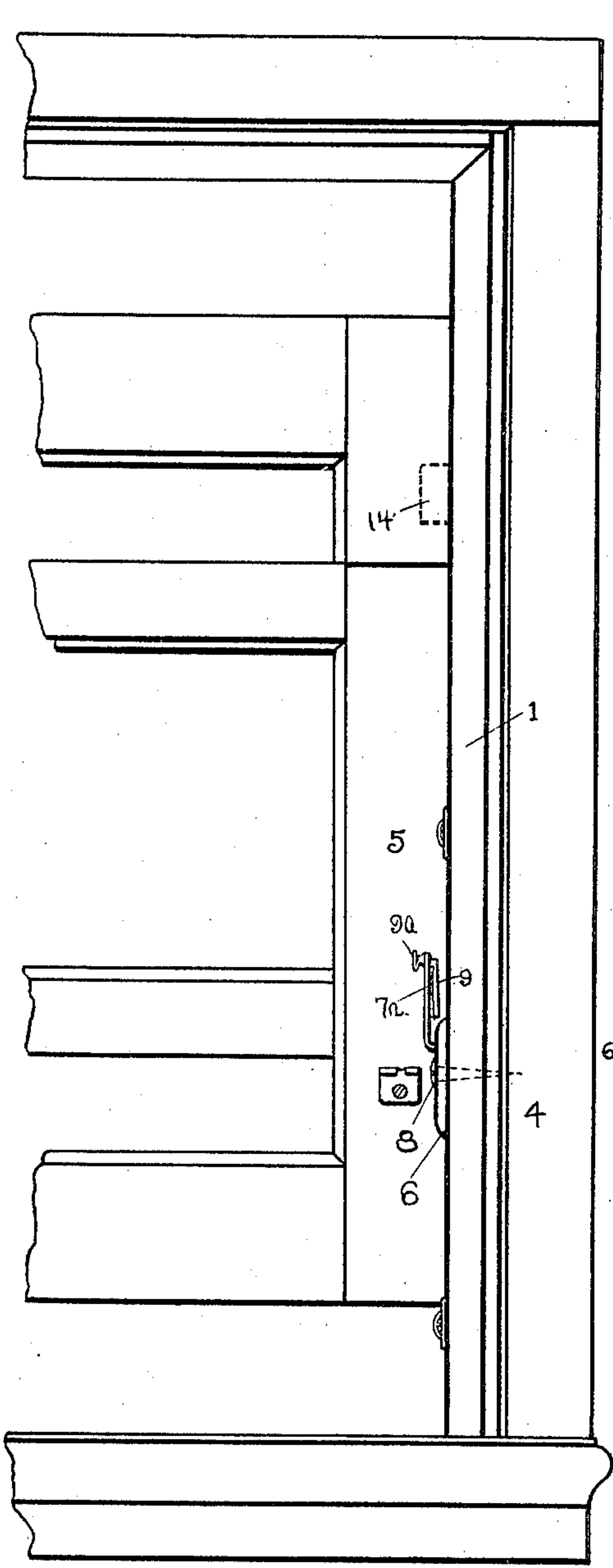


FIG 2.

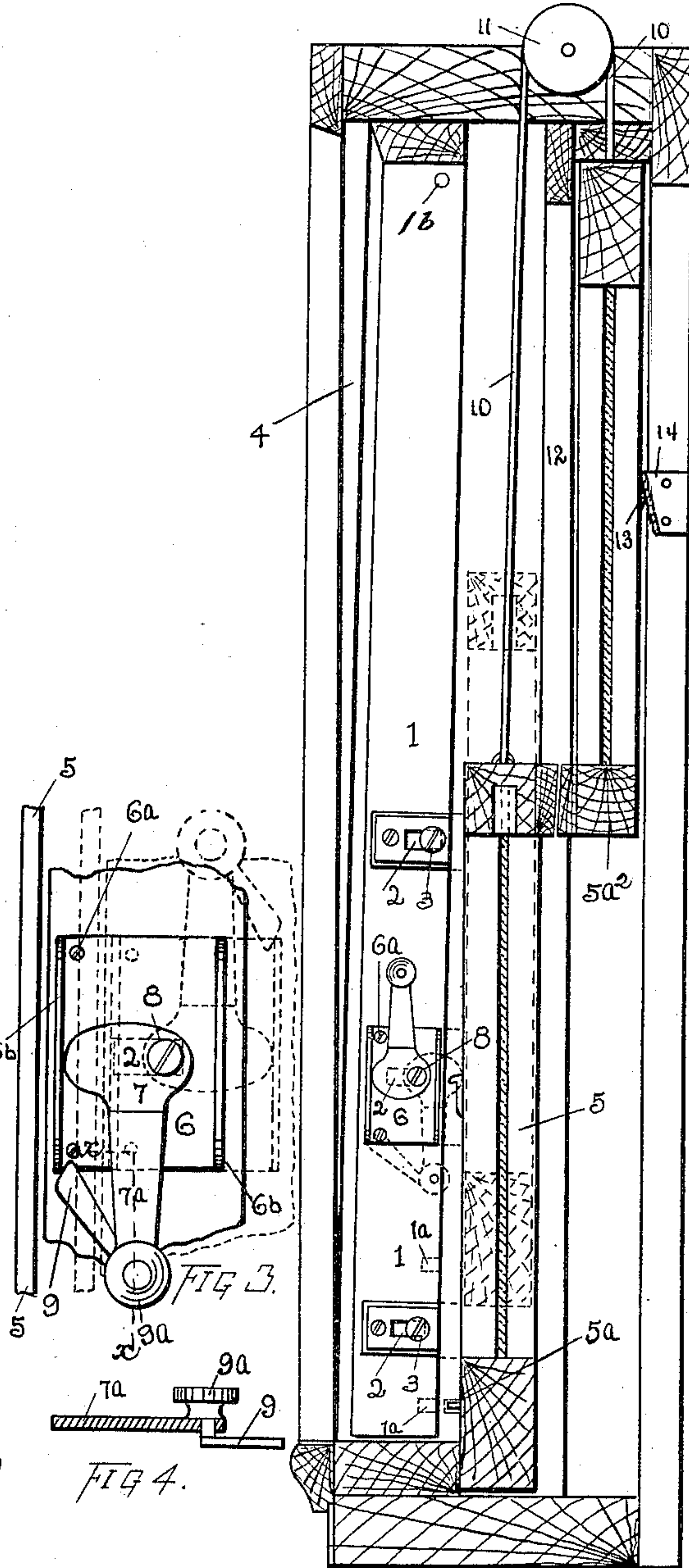


FIG. 1.

WITNESSES:

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JOHN WANLESS, OF BAY CITY, MICHIGAN.

WINDOW-LOCKING DEVICE.

SPECIFICATION forming part of Letters Patent No. 707,039, dated August 12, 1902.

Application filed December 19, 1901. Serial No. 86,576. (No model.)

To all whom it may concern:

Be it known that I, JOHN WANLESS, a citizen of the United States, residing at Bay City, in the county of Bay and State of Michigan, have invented certain new and useful Improvements in Window-Locking Devices; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to windows, and pertains more particularly to improved means for clamping the window-sash to the frame, so as to hold and lock the sash in any desired position.

The objects of the invention are to produce a movable stop for windows which will not only act as a weather-strip to prevent entrance of wind or rain, but also serve as a lock whereby the sash can be held at any desired elevation.

A further object is to produce a locking device that will occupy but little space, requiring no special or unusual arrangement of the parts of the window-frame and being adapted for use with windows already erected.

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

Figure 1 is a sectional elevation of a window-frame embodying my improvement. Fig. 2 is a front view, partly broken away. Fig. 3 is a detail of the clamping mechanism. Fig. 4 is a sectional detail of the clamp-locking device, taken on the line *xx* of Fig. 3.

As is clearly shown in the drawings, the invention consists in a pair of stops 1, provided with transverse slits 2 to slidably engage fixed screws or pins 3, secured into the window-frame 4. The slots 2 permit the stops to be moved laterally toward or away from the sash 5 to clamp it in position or release it, as desired. The upper end of the stop 1 may be secured to the frame 4 by a pivot 1^b.

In order to positively clamp the stop 1 against the sash 5 and to hold it in position, a bracket 6, made of malleable casting or other suitable material, is secured to the stop 1 by screws 6^a or other suitable means. The bracket 6 is provided with flanges 6^b to take the thrust of a cam 7, pivotally mounted to

engage the flanges 6^b of the bracket 6 and operated by a handle 7^a. The pivot 8, upon which the cam 7 is mounted, is rigidly secured to the window-frame 4, so that the cam 7 has no movement except that of rotation about the pivot 8. When the cam is revolved by means of its handle 7^a into the position shown in dotted lines in Fig. 1, it presses against the inner flange of the bracket 6, and thus forces the stop 1 against the sash 5. A slot 2 is provided in the bracket 6 to permit its lateral movement and that of the stop 1.

In order to firmly lock the sash in any desired position, I provide on the sash an outwardly-projecting pin 5^a and corresponding recesses 1^a in the bearing-face of the stop 1. When the sash is placed so that the pin 5^a registers with one of the openings 1^a, the cam may be operated to press the stop against the sash, thereby entering the pin in the recess and firmly locking the sash in position. The cam 7 is locked in position by means of the latch 9, which is pivotally mounted in the arm 7^a. The beveled outer end of the latch engages the flange 6^b and securely holds the cam-handle against turning until it is released by turning the pivoted knob 9^a. The cam, together with its bracket and handle, projects only a short distance from the face of the stop and occupies little space without interfering with the operation of the window.

I prefer to counterbalance the upper sash 5^{a2} and the lower sash 5 by connecting them together by means of cords 10, passing around pulleys 11 at the top of the window-frame. By so connecting the two sash they may be operated together and may be both held in position by the stop 1 when it is clamped against the lower sash 5.

In order to force the upper sash against the middle stop 12 and make a weather-proof joint, I provide a projecting knob 13 at each side of the sash 5^{a2} and so located that when the sash is raised to its highest position the knob 13 will engage the face of an upwardly-beveled bracket 14, secured to the window-frame, and the sash 5^{a2} will thereby be forced inwardly tightly against the stop 12.

By the means above described I have produced a window-fastening device which will clamp the sash in any position and will hold both the upper and lower sash tightly in con-

tact with the stops of the window-frame at the same time. It is, moreover, adapted to rigidly lock the lower sash, so that it cannot be raised or lowered without breaking the locking-pins or destroying the stop.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. In combination with a window-frame having a pair of transversely-movable stops; a slotted bracket secured to each stop, said bracket having a pair of outwardly-extending flanges; a cam pivotally mounted on the window-frame and operating between the flanges of each bracket to actuate the stops toward and away from the sash; a projecting pin secured to the sash, and recesses in the clamping edge of the stop to receive said pin when the stop is in contact with the sash.

2. In combination with a window-frame having a pair of transversely-movable stops secured thereto; a bracket secured to each stop, said bracket having a pair of outwardly-extending parallel flanges; a cam pivotally mounted on the window-frame and operating

between the flanges of the bracket to engage said flanges thereby actuating the stops toward and away from the sash; a handle for said cam, together with a locking-latch pivoted to the handle and adapted to engage the flanges of the bracket.

3. A clamp for window-sash comprising in combination with a transversely-movable stop; a bracket having a transverse slot and a pair of flanges carried by said stop; a pin passing through the movable stop and the slot of the bracket; a cam mounted on said pin between the bracket-flanges; a locking-latch pivotally mounted on the cam; a projecting pin secured to the sash; together with recesses in the clamping edge of the stop, substantially as and for the purposes set forth.

In testimony whereof I affix my signature in presence of two witnesses.

JOHN WANLESS.

Witnesses:

I. GOULD,
JAS. C. HANSON.