

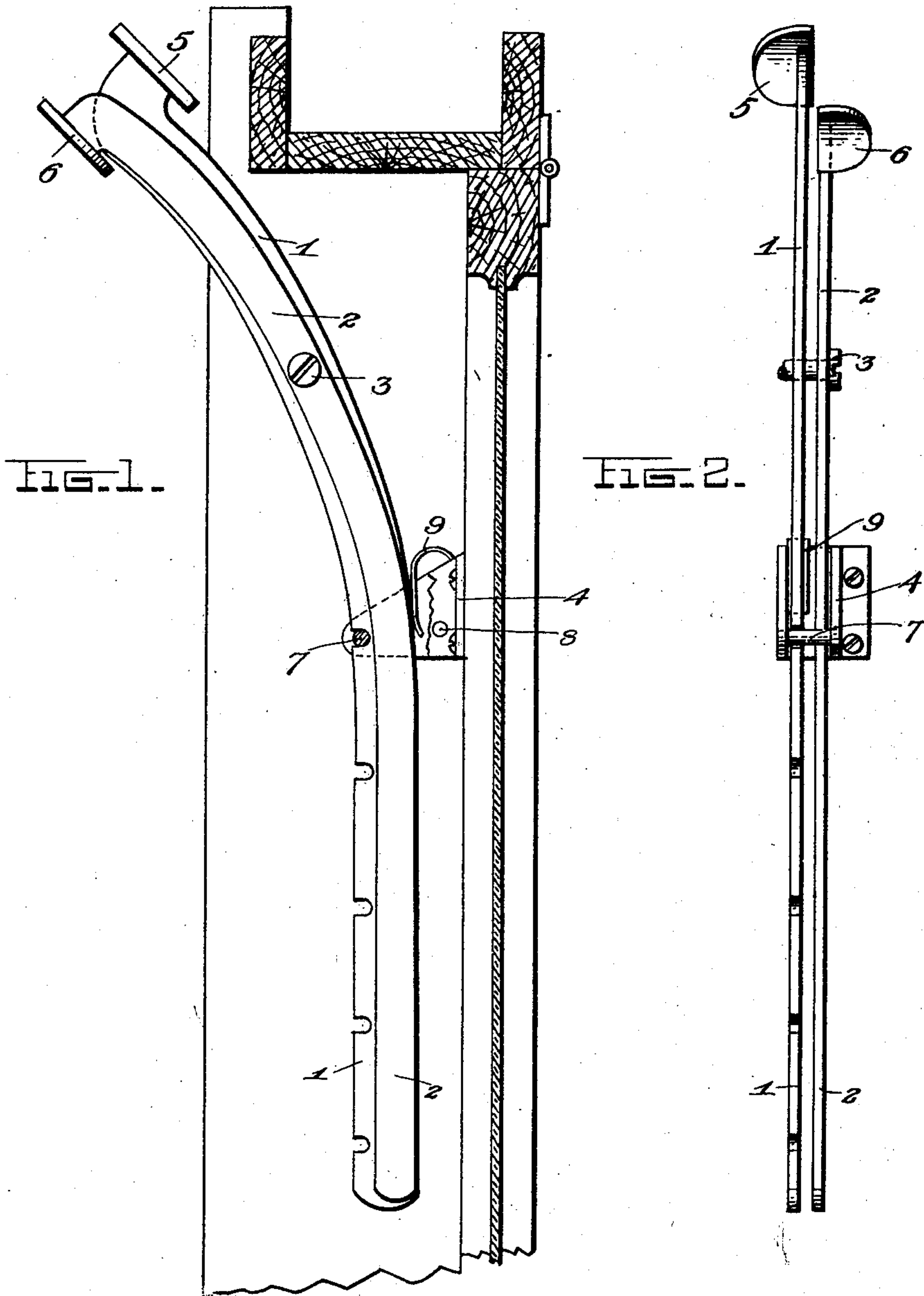
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WINDOW AND FLAP OPERATOR

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# UNITED STATES PATENT OFFICE

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WINDOW AND FLAP OPERATOR

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My invention relates to improvements in window and flap operators, and the objects of my improvement are to produce a more economical, convenient, and efficient window and flap operator, in which two blades in conjunction with each other, a stirrup receiver, and a pivot pin, open and close windows and flaps. (Kinds of windows made of canvas stretched over wooden frames used in mild climates in place of glazed windows and usually hinged at the top.)

Fig. 1 is an elevation partly broken away and in section, showing the application of the invention.

Fig. 2 is an edge view of the operator.

The blades one (1) and two (2), of a suitable size and material for strength and durability, are flat.

Blade 1, wider than blade 2, curved at its upper dimension and straight at its lower, has suitable U-shaped notches cut in its inner or concave edge to engage pin 7, of stirrup receiver 4, when the window or flap is closed or opened to a desired position.

Blade 2, shaped similarly to blade 1, serves as a trip to disengage blade 1, from engagement with pin 7, when grips 5 and 6, are compressed together. To further insure complete engagement of blade 1, and pin 7, a flat curved spring 9, is placed inside stirrup receiver 4.

Blades or levers 1 and 2, each have at their upper curved extremities a suitable grip, made an integral part of each, which enables them to be firmly and securely grasped when it is desired to open or close a window or flap.

Pin 3, placed through blades 1 and 2 has three uses namely:

To hold the operator in place, to act as a hinge pin for the scissor-like motion of disengagement of blade 1, from pin 7, and to act as a pivot when the operator is swung from side to side in the opening and closing operations.

Pin 8, placed through stirrup receiver 4, near its point of attachment to a window serves as a check to receive the motion from blades 1 and 2, when the window or flap is opened.

Abutment pin 7, placed through the outer part of stirrup receiver 4, serves as a check for blade 2, while blade 1, is disengaged and to receive the motion of blades 1 and 2, when the window or flap is closed and also as a stop for any notch in blade 1.

In the manner of operation the grips 5 and 6, are grasped and compressed which by means of pin 3 produces a scissor-like motion forcing blade 2, forward against pin 7, and blade 1, backward thus disengaging any notch from pin 7, then by a motion of the grips 5 and 6, right or left for windows, up or down for flaps, the window or flap is opened or closed.

I believe that my invention is novel in every respect and I know of no operator so used and assembled or using this principle of operation.

I claim:

1. An operator for a hinged window comprising a guide for attachment to the window, said guide having an abutment, a lever slidably engaged with said guide and having means to engage said abutment to hold the lever normally against sliding with respect to the guide, a fulcrum for said lever adapted for mounting on the window frame, and a second lever fulcrumed at one side of the first named lever, the two levers being provided with hand grip portions adapted to be moved toward each other to move said levers in scissors-like manner, said second lever being adapted upon such movement to thrust against a portion of said guide and cause movement of the first named lever from engagement with said abutment.

2. An operator for a hinged window comprising a guide for attachment to the window, said guide having an abutment, a lever slidably engaged with said guide and having means to engage said abutment to hold the lever normally against sliding with respect to the guide, a fulcrum for said lever adapted for mounting on the window frame, and a second lever slidably engaged with said guide and fulcrumed at one side of the first named lever, the two levers being provided with hand grip portions adapted to be moved toward each other to move said levers in



scissors-like manner, said second lever being adapted upon such movement to thrust against a portion of said guide and cause movement of the first named lever from engagement with said abutment.

3. A structure as specified in claim 2; said second lever being fulcrumed on said fulcrum of the first named lever.

4. An operator for a hinged window comprising a guide for attachment to the window, said guide having an abutment, a lever slidably engaged with said guide and having means to engage said abutment to hold the lever normally against sliding with respect to the guide, a fulcrum for said lever adapted for mounting on the window frame, and a second lever fulcrumed at one side of the first named lever, the two levers being adapted for movement in scissors-like manner, said second lever being adapted upon such movement to thrust against a portion of said guide and cause movement of the first-named lever from engagement with said abutment.

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