Feb. 20, 1923. 1,445,863.

J. WILSON.

SASH MOUNTING.

FILED NOV. 9, 1921. 3 SHEETS—SHEET 1.

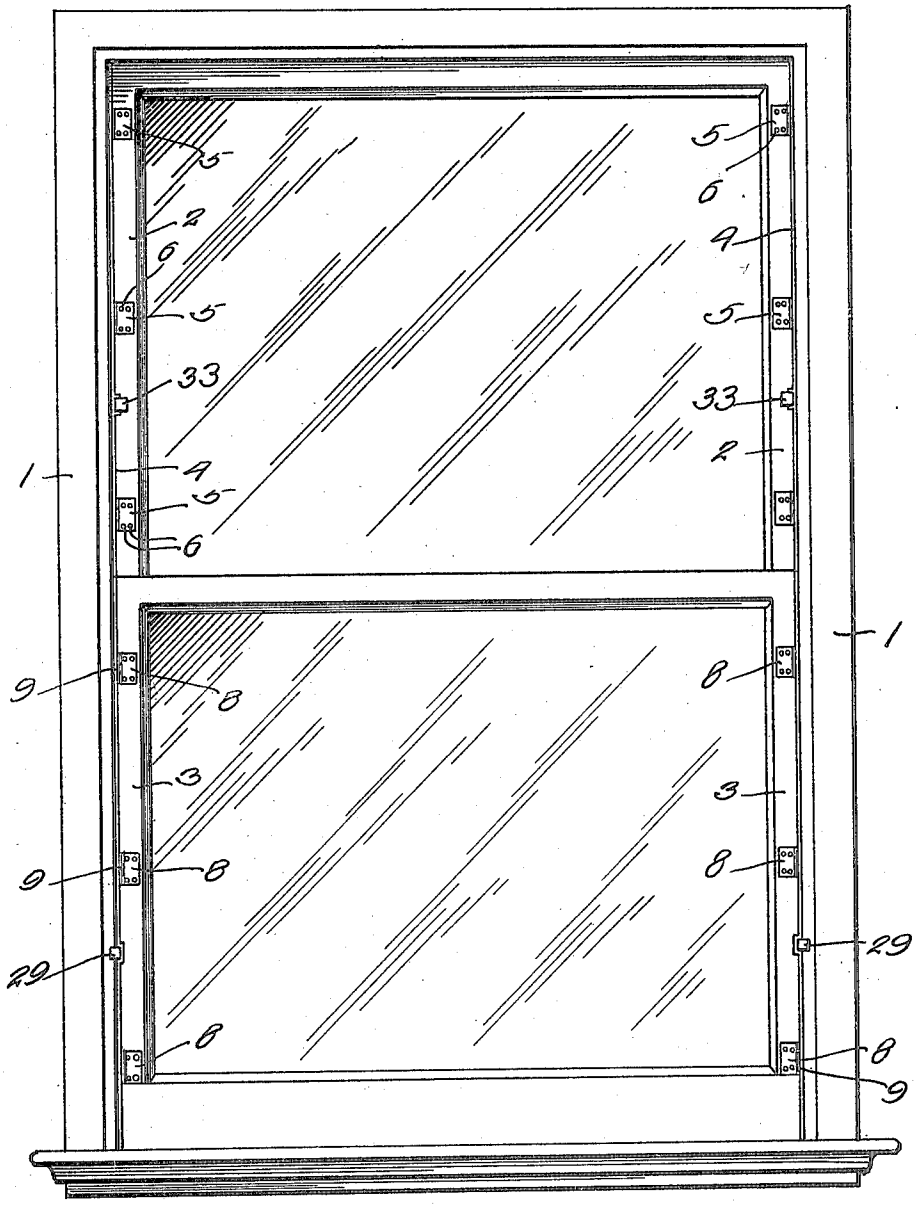


Fig. 1.

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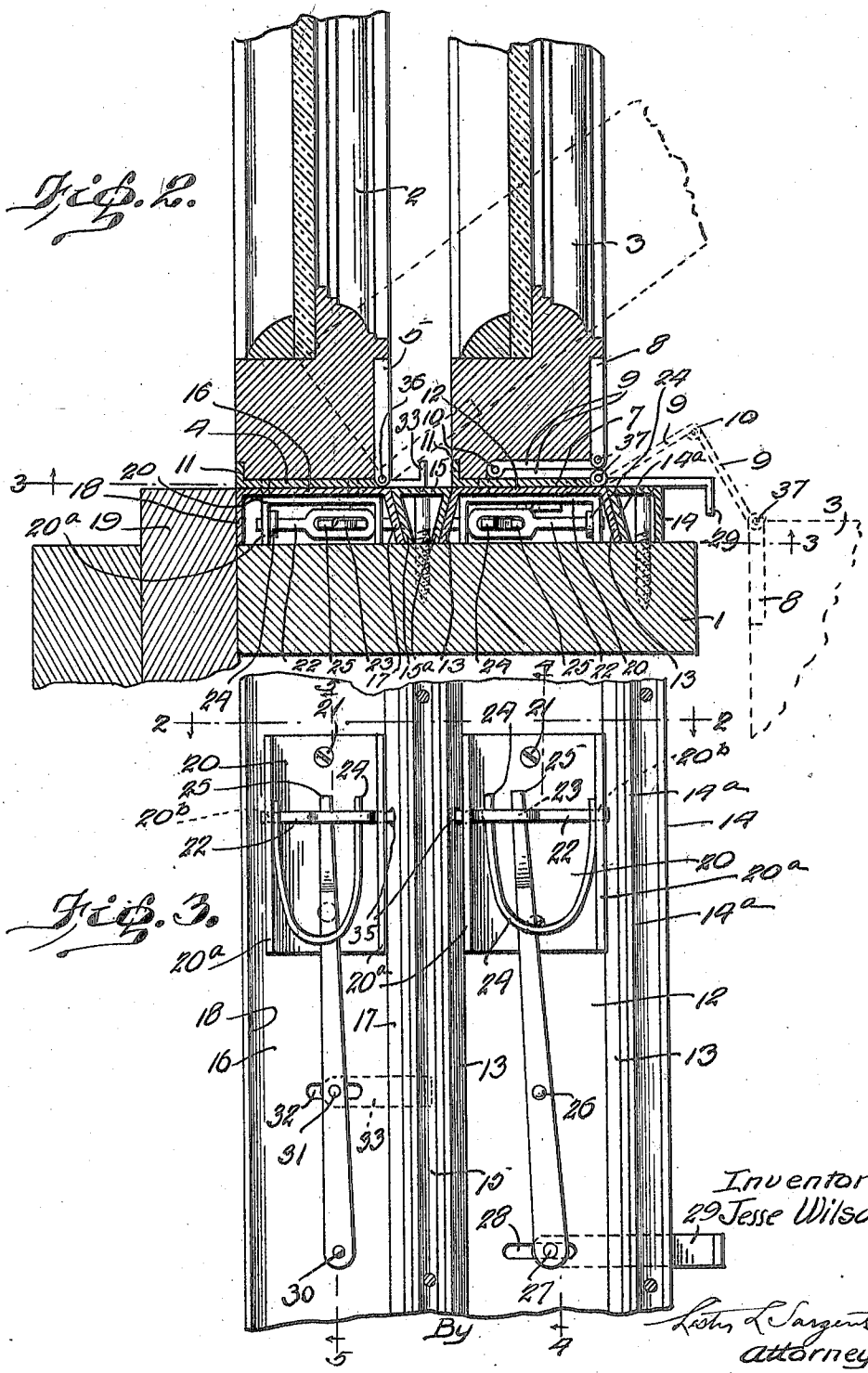
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Fig. 2.



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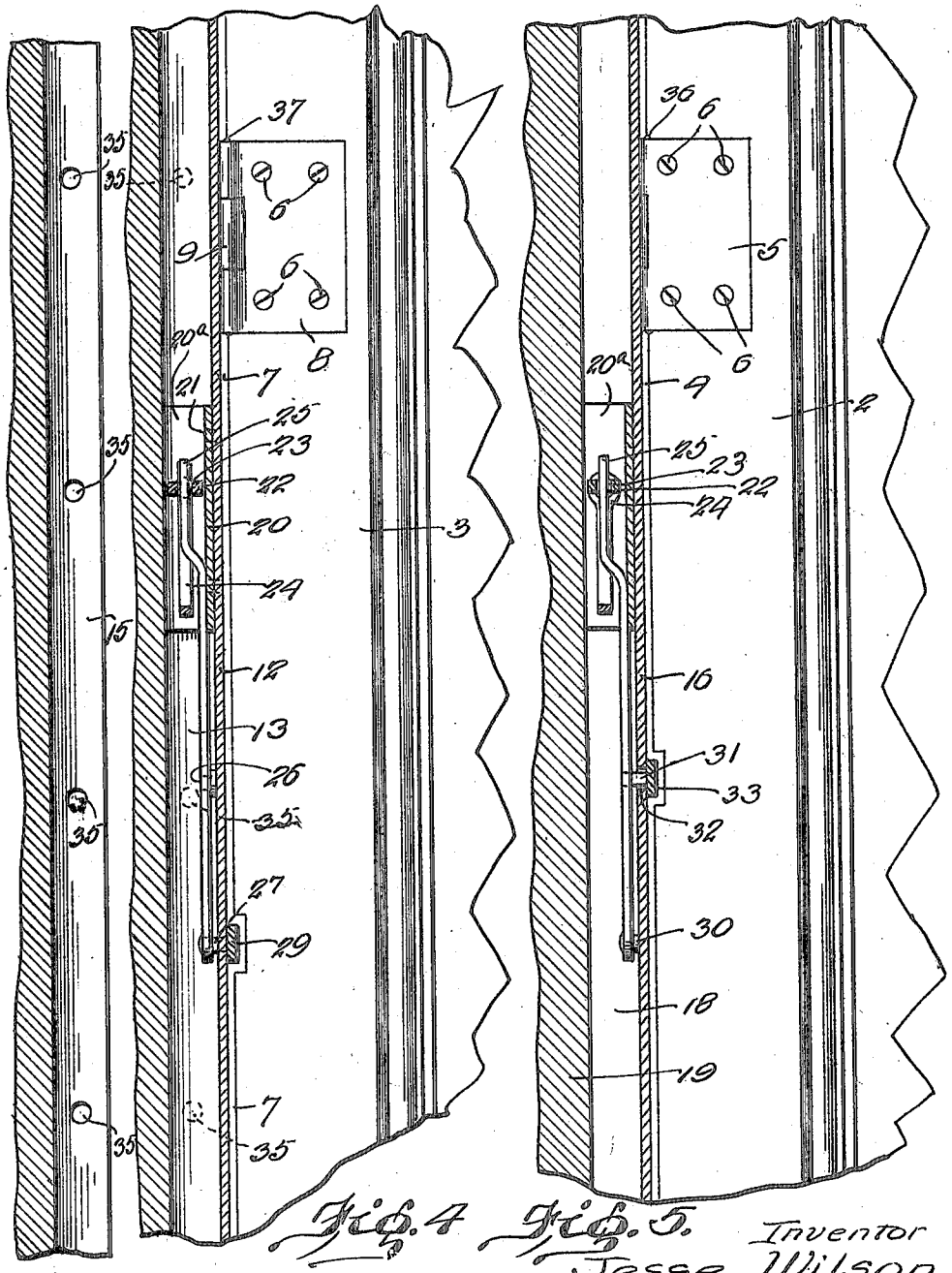


Fig. 4 Fig. 5.

Fig. 6.

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UNITED STATES PATENT OFFICE.

JESSE WILSON, OF JEFFERSONVILLE, INDIANA.

SASH MOUNTING.

Application filed November 9, 1921. Serial No. 513,962.

To all whom it may concern:

Be it known that I, JESSE WILSON, a citizen of the United States, residing at Jeffersonville, in the county of Clark and State of Indiana, have invented a new and useful Sash Mounting, of which the following is a specification.

The object of my invention is to provide a novel sash mounting comprising a sash runner, a parting strip and means for locking said runner to said strip which will accelerate the handling of windows and facilitate the cleaning and repairing and locking same with the least trouble; and to provide a device which can be used on windows of any size. I attain the objects of my invention by the mechanism illustrated in the accompanying drawings, in which—

Figure 1 is a front elevation of a window equipped with my invention;

Fig. 2 is a horizontal section of the upper and lower sashes when moved into aligned position, on the line 2—2 of Fig. 3;

Fig. 3 is an edge elevational view of the upper and lower sashes viewed from the line 3—3 of Fig. 2;

Fig. 4 is a section on line 4—4 of Fig. 3;

Fig. 5 is a section on line 5—5 of Fig. 3; and

Fig. 6 is a vertical section through member 15.

Like numerals designate like parts in each of the several views.

Referring to Fig. 1 of the drawings, the window frame 1 is provided with the upper sash 2 and lower window sash 3. The upper sash 2 is pivotally connected with a metal strip 4 by a set of single hinges 5 and the lower sash is connected to a metal strip 7 by a set of triple hinges 8, as shown in Fig. 2. I secure the single hinges 5 to the upper sash by screws 6; and similarly secure the triple hinges 8 to the lower sash 3, said hinges 8 having folding wings 9 pivoted at their ends as shown in Fig. 2. The hinges connect the respective sashes to plates 4 and 7 by pivots 10 and 37. Each hinge 5 is pivoted at 36, as shown. Metal strips 4 and 7 are provided with upturned flanges 11 extending along the outer edges of the respective window sashes as shown in Fig. 2.

Referring to Figs. 1, 2 and 3, I show a metal runner 12 affixed to the metal strip 7 and extending along each perpendicular side of the lower sash; and I show a similar metal runner 16 affixed to the metal strip 4 of the upper sash 2 extending along each perpendicular side of the upper sash. The runner 12 affixed to the lower sash has the oppositely beveled edges 13; and runner 16 of the upper sash is provided with a single beveled edge 17 and with a right angular edge portion 18 facing the window casing member 19. These runners 12 and 16, each slide up and down in a slot of the same shape formed by the reversely beveled edges 15^a of the parting stop 15 and the beveled edge 14^a of the inside stop 14 and the side of member 19.

The runners 12 and 16 are equipped with spring bolt locks, set at right angles to the longitudinal axes of the brackets on the inside. These locks consist of U-shaped plates 20 secured to runners 12 and 16 respectively by any suitable means such as screws 21, and provided with slots 20^b in the flanges 20^a of the U-shaped plates 20 to receive the ends of locking bolts 22 as shown in Figs. 3 and 2. I provide bolts 22 to one end of each of which is attached the U-shaped spring 24 the free end of said spring projecting through the slotted portion 23 of each bolt 22, the spring 24 being under tension in the position illustrated in Fig. 3 of the drawings in which the device is shown with the bolts in their locking position. I provide a lock control lever 25 engaging in slot 23. Lock control lever 25 for the lower sash is pivotally mounted on fulcrum 26 and operated by a push button arm 29 which is an extension of the lower end of a lever 25 and suitably affixed to it as by pivot member 27 which moves through the slot 28 in runner 12. The operation of the push button arm 29 will move bolt 22 and compress curved spring 24, thus withdrawing the bolt from locking position, the tension of the spring normally being exerted outward on the lock bolt to cause it to engage one of the spaced openings 35 in parting stop 15. The operation of member 29 releases the bolt and permits the free up and down movement of the sash in the ordinary way. For the upper sash the corresponding lock control lever 25 is pivoted at its lower end on the fulcrum 30 and is operated in the reverse direction from the lock lever arm on the lower sash, by means of the lever push arm 33 which is attached by member 31 to the lock control lever 25, member 31 extending through the slot 32 in runner 16, as shown in Fig. 3.

Pressure on member 33 swings lock lever 25, and causes the bolt 22 to withdraw from its engagement in the opening 35 of the parting stop 15, as will be understood by referring to Fig. 3.

I use hinges 5 and 8 at each side of the respective sashes, and by disconnecting the hinges from one side of a sash, said sash can be swung on the other set of hinges inwardly from the frame, as shown in dotted lines in Fig. 2 of the drawings completely reversing the sash and allowing easy access to the outside of the sash for any purpose desired. The weight of the sash is supported by the dovetail construction of the bracket when the sash is lowered as in Fig. 2. The sash can be raised or lowered at will by pressing on the single push button.

The beveled edge 17 of the runner 16 which engages with the beveled edge 15ª of the parting stop prevents the runner from being pulled away from the frame when the sash is swung open on pivot 36 to an angle of approximately 90°, as shown in Fig. 2.

The reversely beveled sides 15ª of the parting stop 15 are provided with spaced openings 35 as shown in Fig. 6 to releasably receive the ends of the spring locks 22, these openings being spaced equal distances apart. This enables one to lock the window sash at any of these spaced positions from the bottom to the top of the window frames. The outside edge of the inside stop is beveled to align with the corresponding beveled portion of the runner for the inside or lower sash.

What I claim is—

1. In a device of the class described, the combination with upper and lower window sashes of runners secured to the perpendicular sides of the sashes, the runner for the lower sash having oppositely beveled edges, the runner for the upper sash having a beveled edge, a parting stop having reversely beveled edges with which the adjacent beveled edges of the respective runners of the upper and lower sashes contact, a spring bolt lock mounted in concealed position on the runners of both the upper and lower sashes said locks being releasably engageable with the parting stop at spaced intervals, and means disposed in substantially concealed position within the runners for manually operating said locks.

2. In combination with window sashes having runners, parting stops, inside stops, the runners being slidably engageable with the edges of each of said stops, and spring-pressed bolt locks mounted on the runners and having their bolt members operable in reverse directions to releasably engage spaced openings in the parting stops, said locking devices including manually operable bolt retracting means.

3. In combination with window sashes having runners, a parting stop positioned between the sashes and with which the runners are slidably engageable, an inside stop having a beveled edge with which the runner of the lower sash is slidably engageable, means for hinging the respective sashes to the runners to permit of inward swinging of the respective sashes, a spring-pressed bolt locking means mounted on each of the runners, said spring pressed bolts being adapted to be moved into and out of locking engagement with the parting slip and means for retracting said bolts, said means being manually operable from a point within the room.

4. In combination with window sashes having runners, a parting stop positioned between the runners and with which the runners are slidably engageable, an inside stop having a beveled edge with which the runner of the lower sash is slidably engageable, means for hinging the respective sashes to the runners to permit of inward swinging of the respective sashes, a spring-pressed bolt retracting means mounted on each of the runners, said means consisting of bolts, U-shaped plates secured to the runners and having apertures in their flanges in which the said bolts are slidably mounted, a curved spring normally pressing each bolt toward locking engagement with the parting stop with which it is releasably engageable, a lock control lever in operative engagement with each bolt, said lock control lever being pivotally mounted on the respective runner, and a push button arm affixed to the lock control lever for manually operating the bolt.

JESSE WILSON.