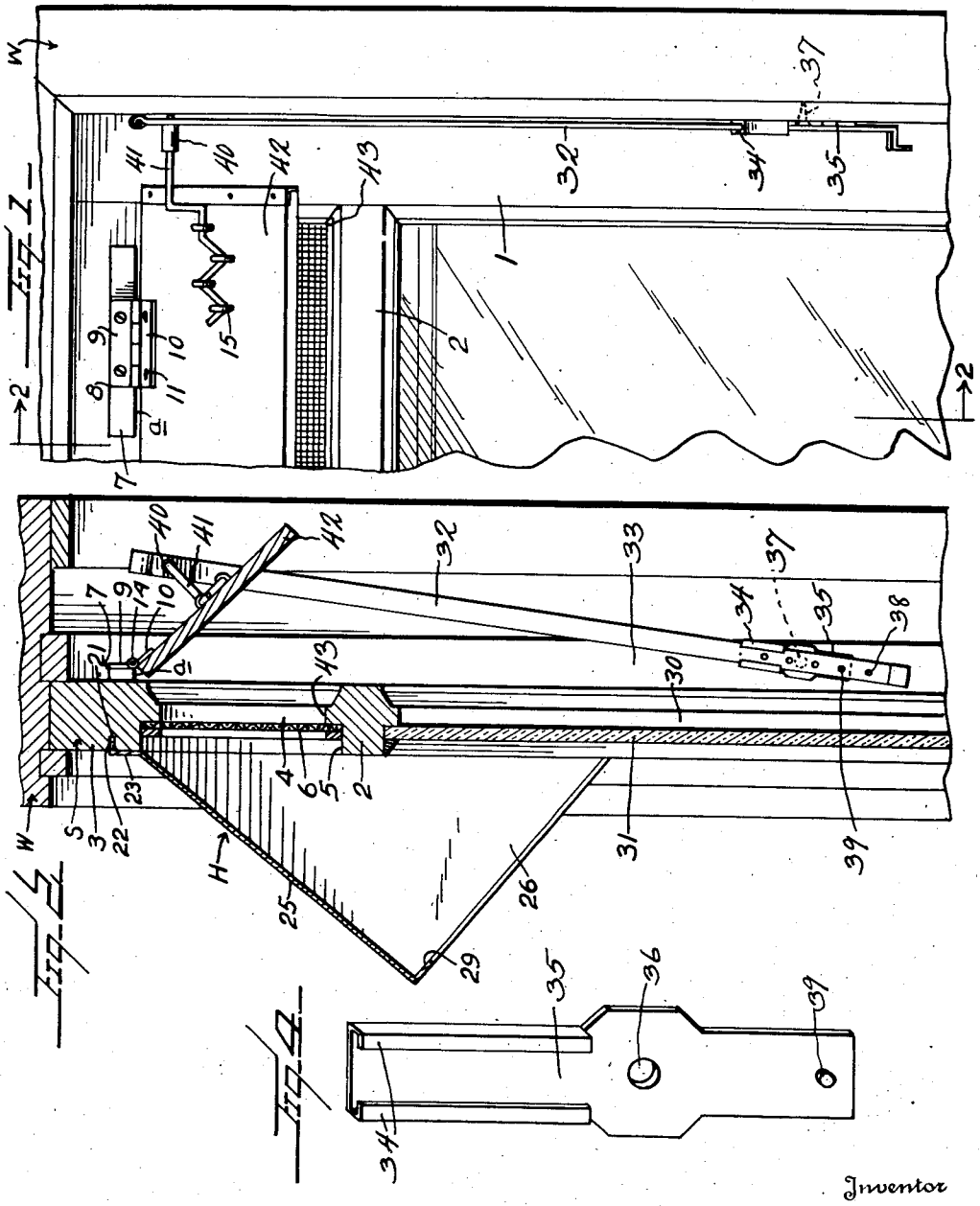
Sept. 4, 1945. E. J. DUMAW 2,384,240

VENTILATING WINDOW SASH

Filed Nov. 21, 1944



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Patented Sept. 4, 1945 2,384,240

UNITED STATES PATENT OFFICE

2,384,240

VENTILATING WINDOW SASH

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Application November 21, 1944, Serial No. 564,482

1 Claim. (Cl. 98—98)

This invention relates to a ventilating window sash, and it is an object of the invention to provide a sash of this kind wherein the upper portion of the sash is constructed in a manner to provide for a screened opening, together with a hood or canopy carried by the sash extending outwardly from the outer face of the sash and disposed over the screened opening in a manner to effectively prevent rain, snow and other elements passing through the screened opening.

Another object of the invention is to provide a sash of this kind constructed to provide a screened opening in its upper portion, together with a hinged door carried by the sash for regulating the screened opening and wherein means are provided to readily and effectively maintain said door in selected adjusted positions.

The invention consists in the details of construction and in the combination and arrangement of the several parts of my improved ventilating window sash whereby certain important advantages are attained, as will be hereinafter more fully set forth.

In order that my invention may be better understood, I will now proceed to describe the same with reference to the accompanying drawing, wherein:

Figure 1 is a fragmentary view in elevation of a window sash illustrating my invention.

Figure 2 is a sectional view taken substantially on the line 2—2 of Figure 1.

Figure 3 is a longitudinal sectional view taken through the upper end portion of the operating member as illustrated in Figures 1 and 2, and

Figure 4 is a view of the mounting fixture for the operating member.

As disclosed in the accompanying drawing, W denotes a conventional window frame in which is snugly fitted in the usual manner a window sash S. This window sash S may be of a storm type, if desired, and is only illustrated in fragment as the lower portion of the sash forms no particular part of the invention.

The side rails 1 of the sash have interposed therebetween at the upper portion thereof a cross member 2 spaced a desired distance below the top rail 3 of the sash S to provide a ventilating opening 4. This opening 4 extends substantially entirely across the upper portion of the sash and marginal walls of the opening and are provided with rabbets 5 to allow a snug fit over the opening 4 of a screening element 6. This element 6 serves to prevent insects or the like entering through the opening 4.

The top rail 3 has suitably fixed to its inner face at desired points spaced lengthwise thereof the blocks 7. These blocks 7 are elongated and have their major axes disposed lengthwise of the rail 3. The under longitudinal edge *a* of each of these blocks 7 is spaced a slight distance upwardly from the adjacent lower longitudinal edge of the rail 3.

Anchored, as at 8, to the outer faces of these blocks 7 are leaves 9 of the ventilating hinged members. The second leaves 10 of these hinged members are securely fastened at 11 to the outer faces of an imperforate door or shutter 42. This door or shutter 42 is of a length to slightly overlie the inner marginal portions of the side rails 1 of the sash S and of a width to extend above and below the ventilating opening 2 when the door or shutter 42 is in fully closed position.

As is particularly illustrated in Figure 2, it is to be noted that the pintle 14 of each of the hinged members is so positioned as to allow the upper marginal portion of the door or shutter 42 to butt from below the lower marginal edge of each of the blocks 7, thus allowing for close contact of the marginal portions of the door or shutter 42 with the inner faces of the rails 1 and 3 and member 2.

An end portion of the door or shutter 42 has non-rotatably secured thereto, as at 15, an outstanding crank member 41. This member 41, partially overlies the adjacent side rail 1 of the sash S.

The outer face of the top rail 3 of the sash S is provided therealong with a slot 21, said slot extending slightly inwardly of the adjacent portions of the side rails 1. Snugly fitting within this slot 21 is a rearwardly disposed lip 22 carried by and extending along the upper margin of a flange 23 at the top of a protecting hood H. This flange 23 has close contact with the outer face of the top rail 3 immediately adjacent to the opening 4 and said flange 3 is tightly held against said rail 3 by the suitable members, not shown.

The flange 23 hereinbefore referred to is along the upper margin of a downwardly and outwardly disposed front plate 25 of the hood H, said plate being herein disclosed as approximately 45 degrees to the vertical. The ends of this front plate 25 are defined by the inwardly disposed end plates 26 having their inner margins in close contact with the side rails 1 of the sash S.

The lower margins of the end plates 26 are disposed on downward and inward inclines at approximately right angles to the plate 25 so that the lower portions of the end plates 26 will extend a material distance below the opening 4,

As is illustrated in Figure 2, it is also to be noted that the front plate **25** of the hood H is of a size to have its marginal portion a pronounced distance below the opening **4**. The lower marginal portion of the front plate **25** and each of the end plates **26** is defined by an inwardly disposed strengthening rib **29**. It is also to be stated that the walls **25** and **26** of the hood H and the associated parts are preferably formed from a single blank of sheet metal.

With the hood H applied to the outer side of the sash S at the top thereof, rain, snow or the like are effectively prevented from passing in through the opening **4** yet in no way affecting the desired ventilation. It is also to be noted that the hood H is carried by the sash S and that the screening element is also carried by the sash S and free of the hood H. This is of advantage so that when desired the hood H can be removed without in any way affecting the efficiency of the ventilating opening **4** and the door or shutter **42** coacting therewith.

While I have shown the sash S as of a stationary type, it is believed to be obvious that it can be made of a size to be slidably mounted within its frame.

A sight opening **30** of the sash S below the member **2** is closed by a panel **31** of glass although, of course, this may be varied without departing from the invention as herein embodied.

Mounted upon one of the vertical parting strips **33** of the window frame or casing is an operating member **32**. This member **32** comprises an elongated flexible flat strip having its lower end portion slidably disposed through a runway **34** at the upper end portion of a flat plate or fixture **35**.

This plate **35** at its central portion is provided with an opening **36** whereby the same may be pivotally mounted, as indicated at **37**, at a desired position upon the parting strip **33** or otherwise as may be preferred on the side member or jamb of the window frame. The operating member **32** has free longitudinal movement with respect to the plate or fixture **35** and said lower portion of the plate or member **32** is provided with the longitudinally spaced openings **38** which are adapted to selectively receive an outstanding pin **39** carried by the lower portion of the plate **35** to lock the member **32** in its various endwise adjustments.

The upper end portion of the member **32** has fixed thereto the inwardly disposed sleeve or tubular bearing **40** substantially at right angles to the member **32**. Freely received within this sleeve or bearing **40** is the outer or free end portion of the crank member **41** which is carried by the door or shutter **42** and extends outwardly beyond an end thereof, as clearly illustrated in Figure 1.

It is believed to be obvious that by moving the member **32** endwise in either an upward or downward direction, the door or shutter **42** may be adjusted as desired. This operation of the member **32** is readily permitted and facilitated by the pivotal mounting of the plate or fixture **35**.

From the foregoing description it is thought to be obvious that a ventilating window sash constructed in accordance with my invention is particularly well adapted for use by reason of the convenience and facility with which it may be assembled and operated.

What I claim is:

In combination with a window frame and a sash within the frame having a ventilating opening; of a swinging shutter carried by the sash and coacting with the ventilating opening, an elongated operating member, means for slidably connecting said operating member with a vertical jamb of the window frame, a crank carried by an end portion of the shutter, a tubular bearing extending out from the operating member into which the crank extends to provide means whereby the shutter may be moved toward or from the ventilating opening of the sash upon endwise movement of the operating member, the means for engaging the operating member with the vertical side member of the frame comprising a plate, means for pivotally mounting the plate to the member of the frame, and a runway carried by said plate with which the operating member is slidably engaged.

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