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C. I. GIRSCHOWITCH

2,778,461

AWNING TYPE WINDOWS

Original Filed March 13, 1951

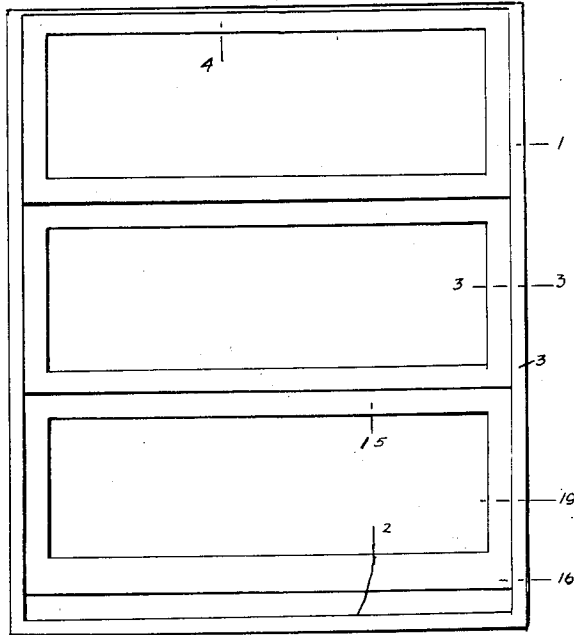
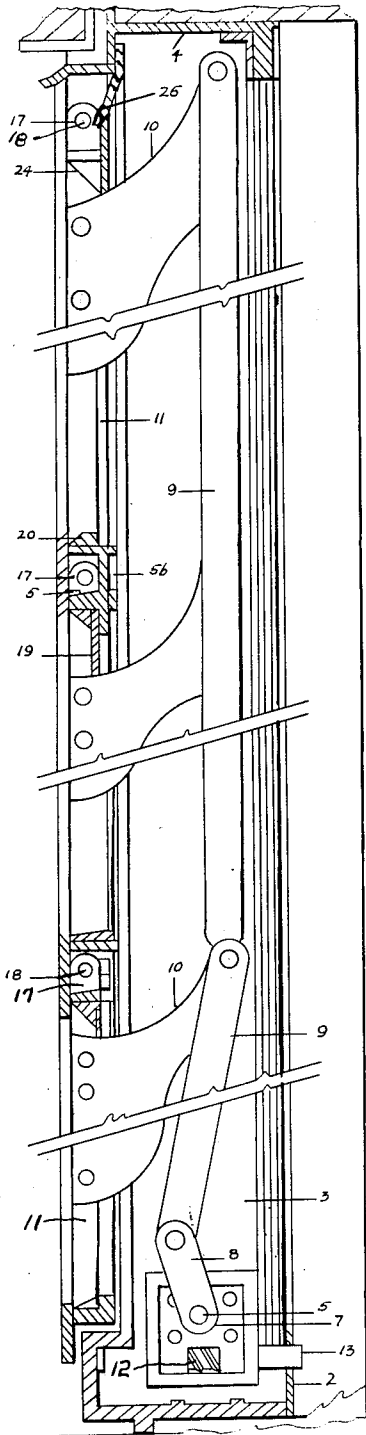


fig. 1

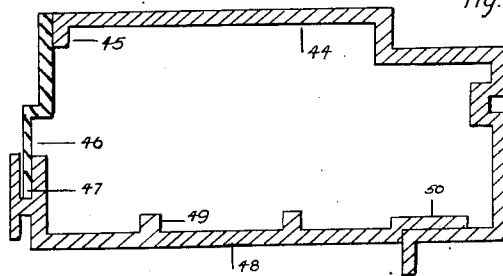


fig. 3.

INVENTOR.

fig. 2 Charles J. Gershenowitz

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2,778,461

AWNING TYPE WINDOWS

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Original application March 13, 1951, Serial No. 215,234, now Patent No. 2,663,389, dated December 22, 1953. Divided and this application December 14, 1953, Serial No. 398,172

1 Claim. (Cl. 189—75)

The present invention relates to improvements in awning-type windows, and more particularly to a metal, such as aluminum, window in which the various elements are put together, the parts being made of extruded metal, one object of the invention being the provision of a window that has no exposed operating elements, and in the hollow jambs house the sash swinging parts, while the sill houses the operating mechanism.

Another object of the invention is the provision of a novel type of jamb used with this window.

In order that the invention may be fully understood and its many advantages appreciated, attention is invited to the accompanying drawings, in which:

Figure 1 is a front view of a complete window, embodying the present invention, the sashes being in closed position.

Fig. 2 is a vertical section through a jamb, sill and head of Fig. 1.

Figure 3 is a cross section through one of the jambs.

Referring to the drawings, the numeral 1 designates a complete awning-type window frame, which is here shown as made from extruded aluminum, but which may be made of any other metal, or it may be made of wood. This frame comprises a hollow sill 2, two hollow jambs 3, and a hollow head 4.

Journalled longitudinally of and within the sill is a rock shaft 5, carrying a gear, not shown, near to or adjacent one end within a unit gear box 7, which is so constructed as to be quickly removed and replaced, and yet is firmly attached to the other wall of the sill, to form also a journal for the respective end of the rock shaft.

Adjacent to the gear box and also within the sill at the other end of the rock shaft are cranks 8, which extend upwardly into the lower ends of the respective jambs. Pivottally connected to the respective crank shafts are links 9, which in turn are connected to the respective arcuate levers 10, to each sash 11, so that when the rock shaft is operated through its companion gear 12, and the short shaft 13 with the detachable hand crank, all

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sashes will be synchronously operated from closed to open, or vice versa, position.

Each sash is composed of a metal frame so that when the sashes are closed, they provide water and substantially air tight joints with the sides of the jambs and adjacent sashes. Two hinging lugs 17 are carried by each sash, so that a removable hinge pin 18 can be employed to hang them for swinging movements, and to be housed when the sashes are closed by the respective adjacent portions of the head 4, and the sashes. Each sash is provided with a pane 19 of glass, or the like, with a proper holding and sealing element 20.

Each jamb is composed of extruded metal shapes or strips, the larger strip 44, constituting the inner wall of the frame adjacent to the sashes, and having an intumed edge 45, to which the removable sealing plate 46 is attached by screws, bolts or rivets, in conjunction with the recessed right-angled rim 47, of the inner wall 48, which is provided with two integral reinforcing strips 49, at the edge remote from the right angled rim 47, the inner wall 48 is welded or otherwise attached at 50 to the inner wall or strip 44 to form a hollow jamb.

The sill, jambs and head are all securely formed or put together to form the rectangular main frame of the window.

As the frame and sashes of this window are of extruded metal, the parts can be attached by screws, bolts rivets and/or welded, to provide a sturdy and strong structure.

This application is a division of application Serial No. 215,234, filed March 13, 1951, now Patent No. 2,663,389.

What is claimed is:

An awning type window having a hollow extruded metal sill, and two hollow extruded metal jambs attached to the sill, each jamb consisting of three extruded metal members, one of the members constituting the inner wall of the jamb as well as a portion of the outer wall of the jamb and having a relatively wide flat portion and a short right-angled edge at its inner face and a right-angled recessed portion that constitutes a portion of the outer face of the jamb, a second member having a strip attached to the outer face of the short right-angled edge of the inner wall member and having the outer parallel edge thereof extended beyond and parallel to the portion so attached, and the third member forming the wall attached or face portion of the jamb and having an upturned right-angled recessed portion to receive the parallel edge of the second member and having its other parallel edge attached to the first member.

References Cited in the file of this patent

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