Aug. 17, 1926. 1,596,450

J. A. RAPPAPORT

PARTING STRIP FOR WINDOWS AND THE LIKE

Filed Oct. 26, 1922

Fig. 1

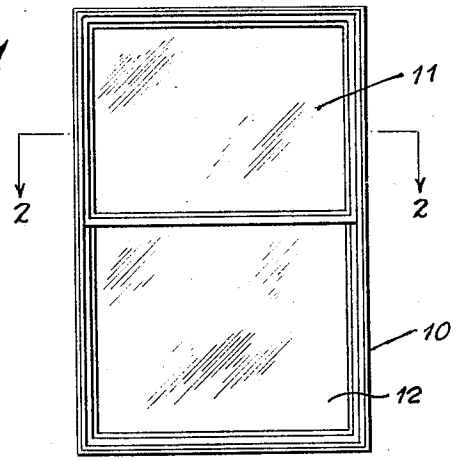
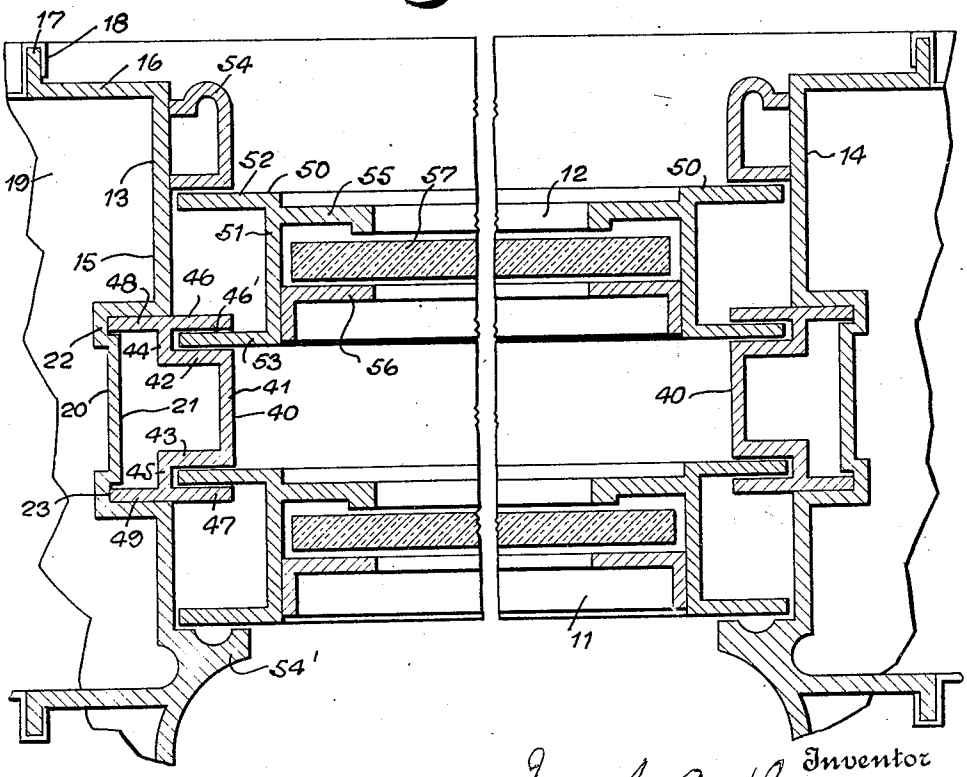


Fig. 2



Inventor

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UNITED STATES PATENT OFFICE.

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PARTING STRIP FOR WINDOWS AND THE LIKE.

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My present invention relates to metal window frames, particularly the window jambs, parting strips, and side rails of window sashes which may be used in connection with such window metal frames.

It is an object of the present invention to provide metal window frames of the general character specified above, which shall be simple in construction, easy to manufacture and to assemble, and which shall provide efficient means for positioning the window sashes for easy sliding and manipulation in their frames, as in those cases where the invention is applied to the usual type of double hung windows. It is another object of the present invention to provide a device of the character described above which, while being mechanically very well adapted to accomplish the desired results previously enumerated, shall at the same time present a very neat and attractive appearance which shall highly recommend such devices to architects, builders and the like.

In the accompanying specification I shall describe, and in the the annexed drawing show, a preferred embodiment of the present invention, particularly as applied to the usual type of double hung windows. It is, however, to be clearly understood that my invention is not limited to the specific embodiment thereof herein shown and described for purposes of illustration only.

Referring to the drawing, wherein I have illustrated the aforesaid illustrative embodiment of the present invention:

Figure 1 is a front elevation of a window frame embodying the present invention; and

Figure 2 is a cross-section of the same, on an enlarged scale, taken along line 2—2 of Figure 1, in such a position of the lower sash that the same overlies the upper sash at the position of the same indicated by line 2—2.

Referring to the aforesaid illustrative embodiment of the present invention, the same comprises a window-frame, generally indicated by reference character 10, and carrying within it an upper sash 11 and a lower sash 12, the window being of the customary double hung type.

Referring now more particularly to Figure 2 of the drawing, 13 and 14 indicate window jambs or pulley stiles. Since the jambs 13 and 14 are preferably identical in all respects, it will be sufficient for the purposes of the present description to describe but one of these jambs. Taking, for example, the jamb 13, the same comprises a main web portion 15, provided with the L-shaped flanges 16, the transverse flange portion 17 of which cooperate with a sheet metal housing which it is not deemed necessary to show herein, the end of which, indicated by reference character 18, is bent about the flange portion 17 to form the weight box generally indicated by reference character 19.

The web portion 15 comprises an intermediate depressed portion 20, the substantially central portion 21 of which is slightly raised to provide a plurality of channels 22 and 23 for a purpose subsequently to be described in greater detail.

Cooperating with the intermediate depressed portion 20 and the substantially central portion 21 defining the grooves or channels 22 and 23, is a parting strip, generally indicated by reference character 40. The parting strip comprises a main web portion 41 having the depending flange portions 42 and 43, which flange portions are in turn provided with the transverse webs or portions 44 and 45, which at their outer ends carry the flange members 46 and 47, respectively. It will be noted that the flange members 46 and 47 preferably extend above and below the web or flange portions 44 and 45, respectively. It will similarly be noted that the lower portions 48 and 49 of the flange portions 46 and 47, respectively, fit into the respective grooves 22 and 23 of the jamb 13.

For the purposes of the present invention, which relates more particularly to the side rails 11 and 12 of the upper and lower sashes of the window 10, the parting strips 40, and the window jambs 13 and 14, rather than to the top, bottom and meeting rails of the upper and lower sashes 11 and 12, respectively, it will be sufficient to describe in detail the side rails simply of one of the sashes, for example the lower sash 12.

Taking the lower sash 12 as the example, the side rails 50 comprise a web 51 of metal provided with the outwardly extending integral weather strips in the form of the flanges 52 and 53, one of the flanges, in this case the flange 53, fitting into a groove 46′

defined between the flange member 46 and the flange portion 42 of the parting strip 40. The other flange member 52 is adjacent the ornamental bead 54, in the case of the lower sash 12, and adjacent a similar ornamental bead 54', in the case of the upper sash 11.

The central web portion 51 of the side rail 50 is provided with the inwardly turned L-shaped flange 55 which cooperates with the outer glass molding 56 to properly position, retain and protect the pane of glass 57. It will be noted the sashes are glazed on the outside.

The operation of the device described in detail above, and advantages in same in use, will be substantially clear from the foregoing description. The construction of the window jambs or pulley stiles 13 and 14 is such as to provide, in a very simple and sufficient manner, proper housing for the pulley weights and proper guidance and support for the parting strips and the upper and lower sashes of the double hung window. The parting strip itself is ingeniously devised to provide in a simple but efficient manner proper guidance and support for the flange members 52 and 53 of the upper and lower sashes 11 and 12, respectively.

The various metal parts of the window frame described in detail are so designed to enable them to be readily and conveniently made of bronze or other suitable metal by extrusion. These parts are further designed to present a very neat and attractive appearance which makes the device as a whole, very salable and renders the same a commercially valuable article.

The arrangement of grooves or channels in the window jamb is such as to enable the ready insertion and removal of the parting strip, while the arrangement of the grooves or channels in the parting strip and the combination with the parting strip containing the grooves or channels, of the beads 54 and 54', is such as to provide a highly efficient means for providing the necessary sliding bearings for the upper and lower sashes, 11 and 12.

What I claim is:

1. In a metal window frame, a parting strip comprising a main central web portion having an intermediate raised portion, and a plurality of flange portions attached to said web portion and coextensive with a part at least of said raised portion for providing a plurality of channels for receiving a flanged portion of a sash member.

2. In a metal window frame, a parting strip comprising a main central web portion having an intermediate raised portion, and a plurality of flange portions extending above and below said web portion attached to said web portion and coextensive with a part at least of said raised portion for providing a plurality of channels for receiving a flanged portion of a sash member.

3. In a metal window frame, a window jamb having an intermediate depressed portion provided with a central raised portion providing a plurality of channels spaced from each other for receiving a flanged portion of a sash member.

4. In a metal window frame, a window jamb having an intermediate depressed portion provided with a central raised portion providing a plurality of grooves, in combination with a parting strip comprising a main central web portion provided with a plurality of depending flanges fitting into the jamb grooves.

5. In a metal window frame, a window jamb having an intermediate depressed portion provided with a central raised portion providing a plurality of grooves, in combination with a parting strip comprising a main central web portion having an intermediate raised portion and a plurality of flange portions attached to said web portions and extending below the same for cooperation with the jamb grooves.

6. In a metal window frame, a window jamb having an intermediate depressed portion provided with a central raised portion providing a plurality of grooves, in combination with a parting strip comprising a main central web portion having an intermediate raised portion, and a plurality of flange portions attached to said web portion and coextensive with a part at least of said raised portion for providing a plurality of channels, said flange portions cooperating with the jamb grooves.

7. In a metal window frame, a window jamb having an intermediate depressed portion provided with a central raised portion providing a plurality of grooves, in combination with a parting strip comprising a main central web portion having an intermediate raised portion, and a plurality of flange portions extending above and below said web portion attached to said web portion and coextensive with a part at least of said raised portion for providing a plurality of channels, said flange portions cooperating with the jamb grooves.

8. In a metal window frame, a window jamb having an intermediate depressed portion provided with a central raised portion providing a plurality of grooves, in combination with a removable parting strip comprising a main central web portion provided with a plurality of depending flanges fitting into the jamb grooves.

In testimony, whereof, I have signed my name to this specification this 30th day of September, 1922.

JACOB A. RAPPAPORT.