

Title (en)
SYSTEM FOR FIXING ANY NUMBER OF PANES IN NEW OR EXISTING WINDOWS

Publication
EP 0007324 B1 19820526 (DE)

Application
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Priority
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Abstract (en)
[origin: EP0007324A1] 1. The system for variable multi-plane glass enclosures for new and old windows is easily installable in all window constructions, independent of the window and work material. The system takes into consideration the exchangeability of the individual glass panes and the variations in regard to the number of panes arranged one behind the other with respectively intervening air spaces, as well as to the optional enlargement of the air space in between the panes, to making full use of the window profile frame, and to the re-equipping of old single-pane windows with double-pane windows. The system also allows for subsequent change of insulating glass panes into three or multi-pane enclosures. With this system the glass panes (1G, 2P, 3-5G) are mounted without putty, but with rubber-like, elastomeric sealer, insert-clamp-type profile frames (DEK-Profile Frames), with a stretching device (I and II), or they are demounted in case of repair, whereby the exchange of the locked-in air is accomplished though a N2 -gas rinse. Here the prefabricated DEK-Profile Frame has two vertical sealing areas with cogged recesses (7) running parallel to each other along the vertical axis ; the profile frame determines the distance between the panes, placed singly or severally next to each other. The upper area of the profile frame also has cogged notches (8). The profile frame around the outer window panes has one or two angular shanks (10) with integrally formed sealer lips (9 and 18) ; the horizontal shanks (13) have wedge-shaped cuts (14). Furthermore the stretching device consists of a tension-rail profile whose holding part (I, Is) and tension mechanism II are made from temperature-resistant, impact-resistant plastic in long production lengths. The holding parts (I and Is) are rectangular with or without side-shanks (19), and the holding part has on the contact surface a recess for its attachment (21) ; on the narrow side it has a slightly conically tapered recess with serrated teeth (15) along the vertical axis on the bottom side all over the recessed area ; and on the top in the lower part of the recess there are serrated teeth in the opposite direction (16). The tension mechanism II is of angular shape and its horizontal shank has on its bottom side, in the corresponding working face, self-activated serrated notches (15), while on the top it has serrated prominences (16), which at the shank end run homologously with Part I. The vertical shank (19), which is slanted towards the angle, is conically tapered and has on the area at the shank's end a semicircular prominence (17) running vertically.

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