

Title (en)
Universal frame of door or window leaf and method of production

Title (de)
Universeller Rahmen für Tür- oder Fensterflügel und Herstellungsverfahren

Title (fr)
Cadre universel pour feuille de porte ou de fenêtre et procédé de fabrication

Publication
EP 2039867 A2 20090325 (EN)

Application
EP 08466026 A 20080919

Priority
CZ 2007667 A 20070921

Abstract (en)
A door/window leaf frame (1) comprises at least one surface (6) around entire perimeter allowing for setup and fixing, e.g. by pasting, a single glass pane (2), whereas every subsequent surface (6) is formed to allow for insertion of outer pane (2') of larger dimensions in comparison with the previous, inner pane (2); between each single pane (2,2',2''), in the inter-panel surface (9) of a door/window leaf frame (1), openings (4) are created to provide the desiccant located within space (3) inside the door/window leaf frame section (1) beneath the inter-panel surface (9), with contact with the inter-panel chambers (7) located between individual glass panes (2,2',2''), whereas at the point of the last glass pane (2') the door/window leaf frame (1) forms an overlapping (5) covering the peripheral edge of pane (2'), upon insertion and pasting, e.g. with glue, thus eliminating a need for additional work on the pane's edge. The openings (4) between individual glass panes (2,2',2'') in the inter-panel surface (9) of the leaf frame (1), are made in the extrusion process of manufacturing the sections used in the leaf frame production, through a modification performed after the extruder, by adding a technology process of creating these openings (4). The openings are made in the inter-panel surface (9), and thus connecting the desiccant space (3) with the inter-panel chambers (7) located between the panes (2,2',2''), whereas the perforated openings (4) have a section preventing the desiccant to fall through. After a door/window leaf frame section (1) is cut and the desiccant space (3) is filled up, the leaf frame section (1) is put together, thus within the closed connected section (1), forming a set of closed cavities including the desiccant closed space (3), accessible only through the perforated openings (4) located in the inter-panel surface (9) to the chambers (7) located between glass panes (2,2',2''), thus the desiccant functionality is secured within space (7) located between the panes (2,2',2'').

IPC 8 full level
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Cited by
CN104265120A; EP2295697A2; US10982484B2

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