

Title (en)

Framed door with reinforcing irons

Title (de)

Rahmentür mit verstärkenden Metallprofilen

Title (fr)

Porte avec cadre comportant des profilés métalliques de renforcement

Publication

EP 1310626 B1 20060208 (EN)

Application

EP 01126406 A 20011107

Priority

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Abstract (en)

[origin: EP1310626A1] The assembly structure of the super-high door of this invention comprises members of two hubbed door skins (1-1, 2-1), a top edge-sealing angle bar (3-1), a bottom edge-sealing angle bar (3-2), a left edge-sealing angle bar (4-2), and a right edge-sealing angle bar (4-1). Said hubbed door skins (1-1, 2-1) are integrally molded flush-edged structures which are positioned by the flange ribs (4-3, 4-4) of the left edge-sealing angle bar (4-2) and the right edge-sealing angle bar (4-1); meanwhile, the top edge-sealing angle bar (3-1) and the bottom edge-sealing angle bar (3-2) are positioned by the milled notches at the top and the bottom ends of the left edge-sealing angle bar (4-2) and the right edge-sealing angle bar (4-1). This invention is characterized in: the inner side of the upper longer region (above the handle) of the left edge-sealing angle bar (4-2) and the inner side of the lower shorter region (below the handle) of the left edge-sealing angle bar (4-2) are respectively inlaid with two U-shape reinforcing irons (6-1, 6-2) of which each length is corresponding to each length of said two regions, then a wood strip (5-1) with a length a little bit shorter than that of the left edge-sealing angle bar (4-2) is inserted into the inner of the two U-shape reinforcing irons (6-1, 6-2) having different length, then closely joined, by a nail gun and an adhesive, to another wood strip (5-2) of which the handle position is inlaid with a reinforcing angle bar (7); besides, the inner side of the right edge-sealing angle bar (4-1) is inlaid with an U-shape reinforcing iron (6-3) of which the length is a little bit shorter than that of the right edge-sealing angle bar (4-1), then a wood strip (5-1) with a length corresponding to that of the U-shape reinforcing iron (6-3) is inserted thereto and closely joined, by a nail gun and adhesives, to another wood strip (5-2); thereafter, said structure is coated with an adhesive and press-assembled with two hubbed door skins (1-1, 2-1); after assembling, the bottom edge-sealing angle bar (3-2) is drilled a hole thereof and filled up with ammonium polyester foamed plastic (8) to form a super-high door structure which will not bent nor deform.

IPC 8 full level

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CPC (source: EP)

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