

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
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Application
EP 01126406 A 20011107

Priority
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Abstract (en)

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.

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IPC 8 full level
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