

Title (en)  
FRAME OF AN ELEVATOR CABIN OR ELEVATOR PLATFORM WITH HIDDEN CORNER JOINTS

Title (de)  
RAHMEN EINER AUFZUGSKABINE BZW. AUFZUGSPLATTFORM MIT VERBORGENEN ECKVERBINDUNGEN

Title (fr)  
CARCASSE D'UNE CABINE D'ASCENSEUR, OU D'UNE PLATEFORME D'ASCENSEUR COMPORTANT DES JOINTS D'ANGLES DISSIMULÉS

Publication  
**EP 2593392 B1 20141231 (EN)**

Application  
**EP 10747524 A 20100723**

Priority  
• IT MI20101278 A 20100713  
• IT 2010000334 W 20100723

Abstract (en)  
[origin: WO2012007974A1] A frame for an elevator cabin or elevator platform comprises extruded metal bars, uprights and cross members respectively, whose ends are joined to three orthogonal arms of identical corner joints, present in groups of four, to support the base and the roof. A first type of corner joint is made of galvanized sheet iron, bent and welded; a second type is made of die-cast aluminium. Irrespective of the type, the arms of the joints are placed inside the bars in order to leave the elevator hoistway free. The joints and bars are fixed together by flat-headed screws or lowered head screws. In the first type of corner joint each orthogonal arm consists of two walls joined at 90° along a common longitudinal edge, which may be bend or welding. The two walls of each arm are therefore contiguous to those of the other two arms at the common vertex. In order to couple said joints, the ends of the cross members are inwardly inclined at 45° so that the edges match. In the die-cast aluminium corner joint each joint consists of a parallelepiped block from which three arms depart, said three arms, orthogonal to three faces of the block having a common vertex, there being a pedestal left free round each arm to support the edge of one end of the bar joined to said arm. The width of the pedestal is such that the faces of the block opposite those from which depart the arms engaged in seats present in the respective cross members, are flush with the walls of the bars contiguous to said faces.

IPC 8 full level  
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CPC (source: EP)  
**B66B 11/0206** (2013.01); **B66B 11/0226** (2013.01)

Cited by  
CN110142544A; EP4036043A4

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