

Title (en)

WALL ELEMENTS FOR REPEATEDLY MOVABLE PREFABRICATED BUILDINGS AND DEVICE FOR THEIR CONNECTION

Publication

EP 0089443 B1 19860709 (DE)

Application

EP 82710011 A 19820318

Priority

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Abstract (en)

[origin: EP0089443A1] 1. Wall elements (1.10; 1.11; 1.30; 1.31; 1.32; 1.40; 1.41; 1.42; 1.50; 1.51) in the form of load-bearing parts of a panel-type configuration of a confined space for erecting repeatedly movable prefabricated buildings furnished with and formed by means at least partly integrated into the panels, for the connection (2, 3, 4, 5) and coupling, respectively, to another wall panel of an identical or similar configuration, with the recesses (1.20; 1.21; 1.22; 1.23; 1.24) in the wall panels required for the connection and coupling, respectively, being restricted to the load-bearing parts (6) and covered by an insulating layer (7), if any, and with the wall panels being of a rectangular configuration and being vertically disposed, with the connection (5) of rectangularly crossing partition panel combinations (1.50; 1.51 and 1.40; 1.41) being established by two recesses (1.23, 1.24) mirror-inverted at the crossing point of connection thereof in a meshing or overlapping manner in the butt-joints of the two partition panel combinations, and with the wall panels being preferably formed of a reinforced concrete layer (6) and an insulating layer (7) generally directed outwardly, characterized in that the respectively co-extensive outwardly flush butt connection (3) of two wall panels (1.10 and 1.11) together with the partition panel (1.40) rectangularly disposed between the butt is established by a readily detachable coupling means (3.11', 3.10' and 3.11", 3.10") laterally protruding from the two wall panels (1.10 and 1.11) and engaging a mount (3.13) of the said panel (1.40) pointing upwardly from recess (1.21), that the co-extensive butt connection (4) of two wall panels (1.30; 1.31) directed normal to the former-mentioned wall panels (1.10; 1.11) together with the partition panel (1.50) perpendicularly associated to the butt of the said wall panels and upright therewith at an obtuse angle is established by a readily detachable coupling means (4.11; 4.10) laterally protruding from the partition panel (1.50) and extending into a free space, with the free space being formed by identical recesses (1.22) disposed in mirror-inverted manner in the wall panels (1.30 and 1.31) and having upwardly pointing mounts (4.13'; 4.13"), that the wall panel (1.30) and the wall panel (1.10) upright thereto at right angles, of the two co-extensive wall panel matings (1.10; 1.11 and 1.30; 1.31) form a corner connection (2) which is established by the readily detachable coupling means (2.11 and 2.10) laterally protruding from the wall panel (1.10) and engaging the mounts (2.13) of the panel (1.30), pointing upwardly from the recess (1.20), that the coupling means (2.10 and 4.10; 3.10' and 3.10"; 2.11; 3.11'; 3.11"; 4.11) are exclusively located in the upper corner area of the wall panels (1.10; 1.11; 1.30; 1.31) and that the recesses (1.20; 1.21; 1.22) open to the top and towards the sides, in non-crossing wall panels at points of connection (2, 3, 4) respectively are disposed only in wall panels (1.40; 1.30 and 1.31) extend in one direction.

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E04B 1/04

IPC 8 full level

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CPC (source: EP)

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Cited by

CN102359178A; US5642594A; AT408360B; US5513473A; WO2006049562A1; US6655106B1; US8326112B2

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