Title (en)
MODULAR ELEMENTS BUILDING STRUCTURE

Publication
EP 0121031 B1 19861230 (EN)

Application
EP 83830260 A 19831207

Priority
IT 4798883 A 19830324

Abstract (en)
[origin: EP0121031A1] A single storied or multistoried building structure is disclosed which is based on a concrete foundation slab and is provided with perimetrical and interior walls made of prefabricated reinforced concrete panels (5) at the top sides of which metal channel profiles (19) are embedded into the pannel concrete and which are fastened to one another by means of bolts (22) which connect respective upward extensions of metal plates (21) which are fitted into said metal channels (19) to engage a pair of projections extending from the channel sides; said panels (5) being anchored to the foundation slab by means of vertical tie rods (11) hooked at their lower end onto inverted T structural shapes (4) fastened on the foundation slab and connected at their upper ends by means of a nut (18) to said metal plates by which the panels are connected to one another. Such tie rods (11) extend along vertical ducts (12) which are defined, between two panels approached to one another, by channellike metal profiles (9) which are embedded into the vertical edges of each panel (5). In the case of a multistoried building a floor is interposed between two successive stories which floor comprises a corrugated metal sheet (30) with trapezoidal cross-section of the corrugations the edge of the sheet being laid to rest on top of the walls of the room to be covered by the floor; which sheet (30) functions as a form casting the concrete mortar and cooperates therewith as a reinforcement.

IPC 1-7
E04B 1/04; E04B 1/06

IPC 8 full level
E04B 1/04 (2006.01); **E04B 1/06** (2006.01)

CPC (source: EP)
E04B 1/04 (2013.01); **E04B 1/06** (2013.01)

Cited by
US7255930B2; US5642594A; US5513473A; GB2256211A; GB2256211B; US6655106B1; WO9003475A1

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