

Title (en)  
A GREAT-SPAN INTERMEDIATE FLOOR CONSTRUCTION, PARTICULARLY FOR BUILDING OF PUBLIC AND RESIDENCE STRUCTURES

Title (de)  
ZWISCHENDECKE FÜR GROSSE SPANNWEITEN, INSBESONDERE FÜR TRAGWERKE ÖFFENTLICHER UND PRIVATER GEBÄUDE

Title (fr)  
STRUCTURE DE PLANCHER INTERIEUR, DE GRANDE PORTEE, PERMETTANT NOTAMMENT DE CONSTRUIRE DES BATIMENTS PUBLICS ET DES LOGEMENTS

Publication  
**EP 1012421 A2 20000628 (EN)**

Application  
**EP 98934674 A 19980722**

Priority  
• YU 9800017 W 19980722  
• YU 32297 A 19970725

Abstract (en)  
[origin: WO9905371A2] This invention refers to Great Span Intermediate Floor Construction particularly designed for construction of public and residential buildings. This is a solution for construction of light-carrying floors based on the static system of a single span beam or continual beam, where the length of the field can be more or less than 10 meters, using semi prefabricated system of construction, that results in complete adaptability of space. The essence of the invention is in prefabrication of longitudinal girders (5) fixed to the supports (2 and 3) of the intermediate floor (1) and to the intermediate column (4a) of the continual intermediate floor (1a). The girder (5) consists of diagonal and triangular and spiral steel reinforcement filling which has in its corners flat steel profiles that are "welded" by fine grain concrete inside of the upper hollow tile (10) and lower hollow tile (11). Girders (5) may be not only straight but also horizontally or vertically curved, ring shaped or twisted. Between girders (5) that are evenly moved apart, on the lower hollow tiles, are placed the lower hollow tile blocks (6) and above them are placed at least two rows of light upper non-carrying hollow tile blocks (7). The hollow tile blocks (6 and 7) are made of burned ceramics. In the case of continual intermediate floor (1a), close to the intermediate columns (4a) instead of the blocks (6) between girders (5) are twice as short lower hollow tile blocks (20) enabling concrete to fill above (20) and into hollow tile blocks (19), forming this way, the lower pressurized zone.

IPC 1-7  
**E04B 5/19**

IPC 8 full level  
**E04B 5/43** (2006.01); **E04C 5/065** (2006.01)

CPC (source: EP)  
**E04B 5/43** (2013.01); **E04C 5/0656** (2013.01)

Citation (search report)  
See references of WO 9905371A2

Designated contracting state (EPC)  
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)  
**WO 9905371 A2 19990204; WO 9905371 A3 19990422**; AU 8414998 A 19990216; EP 1012421 A2 20000628; RS 49530 B 20061215; YU 32297 A 19991122

DOCDB simple family (application)  
**YU 9800017 W 19980722**; AU 8414998 A 19980722; EP 98934674 A 19980722; YU 32297 A 19970725