Title (en)
HONEYCOMB-STRUCTURED HOLLOW-BLOCK CONCRETE FLOOR

Title (de)
HOHLKÖRPERBETONDECKE IN WABENFORM

Title (fr)
PLAFOND EN BETON CREUX ALVEOLAIRE

Publication
EP 1252403 B1 20090610 (DE)

Application
EP 01913563 A 20010201

Priority
• DE 0100399 W 20010201
• DE 10004640 A 20000203

Abstract (en)
[origin: US2003110724A1] The invention relates to a hollow body concrete floor or hollow body concrete slab made from concrete having reinforcements and conical hollow bodies (1) the cross-section of which is essentially round, oval or more than quadrilateral, wherein hollow bodies (1) are arranged between an upper and a lower reinforcement layer (15, 16) at least in sections essentially in the most compact configuration possible, wherein the areas between the upper and the lower reinforcement layers (15, 16) may be provided without hollow bodies (1). The object of the invention is to provide an improvement over conventional hollow body concrete floors. This object is solved in that spacers (8, 9) are arranged between upper reinforcement layer (15) and hollow bodies (1) on the one hand and between lower reinforcement layer (16) and hollow bodies (1) on the other hand, and that vertical reinforcements (17) are inserted in at least some of the interstitial spaces formed in each case by three adjacent hollow bodies (1).

IPC 8 full level
E04B 5/32 (2006.01); **E04B 1/18** (2006.01); **E04B 5/19** (2006.01); **E04B 5/36** (2006.01); **E04B 5/48** (2006.01); **E04C 5/06** (2006.01); **E04C 5/16** (2006.01); **E04C 5/20** (2006.01)

CPC (source: EP US)
E04B 5/326 (2013.01 - EP US); **E04B 5/48** (2013.01 - EP US); **E04C 5/203** (2013.01 - EP US); **E04G 11/38** (2013.01 - EP US); **E04G 15/061** (2013.01 - EP US)

Cited by
EA009028B1; WO2006018253A1

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

DOCDB simple family (publication)
US 2003110724 A1 20030619; AT E433525 T1 20090615; AU 3915301 A 20010814; AU 782061 B2 20050630; BR 0107372 A 20021001; BR 0107372 B1 20121211; CA 2398157 A1 20010809; CA 2398157 C 20100413; DE 10004640 A1 20010809; DE 50114931 D1 20090723; DK 1252403 T3 20091019; DK 1252403 T5 20100329; EP 1252403 A1 20021030; EP 1252403 B1 20090610; EP 1252403 B9 20091202; ES 2328010 T3 20091106; PT 1252403 E 20090720; WO 0157335 A1 20010809

DOCDB simple family (application)
US 16920702 A 20020828; AT 01913563 T 20010201; AU 3915301 A 20010201; BR 0107372 A 20010201; CA 2398157 A 20010201; DE 0100399 W 20010201; DE 10004640 A 20000203; DE 50114931 T 20010201; DK 01913563 T 20010201; EP 01913563 A 20010201; ES 01913563 T 20010201; PT 01913563 T 20010201