

Title (en)

LIGHTWEIGHT CONCRETE WITH A HIGH ELASTIC MODULUS AND USE THEREOF

Title (de)

LEICHTBETON MIT HOHEM ELASTIZITÄTSMODUL UND VERWENDUNG DAVON

Title (fr)

BÉTON LÉGER AYANT UN MODULE ÉLASTIQUE ÉLEVÉ ET SON UTILISATION

Publication

**EP 3377459 A2 20180926 (EN)**

Application

**EP 16810475 A 20161117**

Priority

- IT UB20155712 A 20151118
- IB 2016056932 W 20161117

Abstract (en)

[origin: WO2017085667A2] A structural lightweight concrete with a high elastic modulus is described, consisting of a mixture of cement, water, hollow spherical lightweight aggregates, inert aggregates, preferably calcareous or silico-calcareous inert aggregates, wherein the weight ratio cement/hollow spherical lightweight aggregates, in the dry mixture, ranges from 0.6 to 0.9, preferably from 0.80 to 0.85 and wherein the water/cement weight ratio is equal to 0.44 and its use as structural lightweight concrete for the production of structural elements, preferably pillars, beams, walls, etc.

IPC 8 full level

**C04B 28/04** (2006.01); **C04B 20/00** (2006.01); **C04B 33/04** (2006.01); **C04B 35/626** (2006.01); **C04B 38/00** (2006.01)

CPC (source: EP)

**C04B 20/002** (2013.01); **C04B 28/04** (2013.01); **C04B 33/04** (2013.01); **C04B 35/62675** (2013.01); **C04B 35/62695** (2013.01); **C04B 38/009** (2013.01); **C04B 2111/40** (2013.01); **C04B 2201/20** (2013.01); **C04B 2201/50** (2013.01); **C04B 2235/3208** (2013.01); **C04B 2235/321** (2013.01); **C04B 2235/3418** (2013.01); **C04B 2235/3463** (2013.01); **C04B 2235/349** (2013.01)

C-Set (source: EP)

1. **C04B 28/04 + C04B 14/06 + C04B 14/28 + C04B 20/004 + C04B 24/2641 + C04B 2103/32**
2. **C04B 28/04 + C04B 14/06 + C04B 14/28 + C04B 24/2641 + C04B 38/08 + C04B 2103/32**
3. **C04B 28/04 + C04B 14/06 + C04B 14/28 + C04B 14/301 + C04B 24/2641 + C04B 2103/32**
4. **C04B 38/009 + C04B 33/04 + C04B 38/067**
5. **C04B 38/009 + C04B 28/18 + C04B 38/067 + C04B 40/024**

Citation (search report)

See references of WO 2017085667A2

Cited by

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Designated contracting state (EPC)

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Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

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