

Title (en)
Steel-concrete structure for floor slabs

Title (de)
Stahl-Verbund-Konstruktion für Geschossdecken

Title (fr)
Structure en acier-béton pour dalles de plancher

Publication
EP 1405961 B1 20060104 (DE)

Application
EP 03022044 A 20031001

Priority
• DE 10246525 A 20021005
• DE 20308367 U 20030528

Abstract (en)
[origin: EP1405961A1] The ceiling support is a steel girder (3) with local concrete part encased in concrete with the storey ceiling. To transfer bending movements between the girder and upright support (2) there is at least one tensile stressed reinforcement element (12) on one side anchored in the upright and guided through same into the adjoining ceiling girder, and on the other side embedded in the compound concrete part. Shear teeth are provided in the connecting seam between the upright and concrete part of the girder to transfer the transverse forces at least in the event of a fire. The reinforcement elements pass through tubular sleeves which have a setting material such as concrete inside.

IPC 8 full level
E04C 3/293 (2006.01); **E04B 1/21** (2006.01); **E04B 5/29** (2006.01); **E04B 5/43** (2006.01); **E04C 3/26** (2006.01)

CPC (source: EP)
E04B 1/215 (2013.01); **E04B 5/29** (2013.01); **E04B 5/43** (2013.01); **E04C 3/065** (2013.01); **E04C 3/293** (2013.01)

Cited by
EP1669505A1; CN113802744A; EP1801302A3; CN104452978A; CN103556752A; CN110565797A; US2022049495A1; CN114876059A; ES2311309A1; CN102912862A; CN114737678A; EP2096220A1; WO2010128046A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

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EP 1405961 A1 20040407; **EP 1405961 B1 20060104**; AT E315143 T1 20060215; DE 50302102 D1 20060330; ES 2256637 T3 20060716

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