

Title (en)  
Metallic ceiling substructure

Title (de)  
Metallische Deckenunterkonstruktion

Title (fr)  
Sous-structure de plafond métallique

Publication  
**EP 2447434 B1 20140226 (DE)**

Application  
**EP 10013273 A 20101004**

Priority  
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Abstract (en)  
[origin: EP2447434A1] The metal ceiling substructure has metal beams which cross one another and are spaced apart from the ceiling. The metal beams form a grid and are configured in the form of main beams and crossbeams. The metal beams are connected to one another by specially designed connectors which engage in openings (1) arranged in the web region of the metal beams and which lock the individual metal beams together. The connectors are made of metallic material, such as stainless steel.

IPC 8 full level  
**E04B 9/12** (2006.01)

CPC (source: EP KR)  
**E04B 9/12** (2013.01 - KR); **E04B 9/122** (2013.01 - EP)

Citation (examination)  
EP 2374954 A2 20111012 - DALLAN SPA [IT]

Cited by  
ITVR20130230A1; RU2597345C2; US9371649B2; US9212484B2; US9593482B2

Designated contracting state (EPC)  
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DOCDB simple family (publication)  
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EP 2625346 A2 20130814; EP 2625346 B1 20180627; ES 2464464 T3 20140602; ES 2688456 T3 20181102; JP 2013542348 A 20131121;  
JP 5934223 B2 20160615; KR 102017501 B1 20190903; KR 20130098387 A 20130904; PL 2447434 T3 20140930; PL 2625346 T3 20181130;  
UA 110944 C2 20160310; WO 2012045438 A2 20120412; WO 2012045438 A3 20120621; ZA 201301695 B 20131127

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EP 11764689 A 20111004; EP 2011004943 W 20111004; ES 10013273 T 20101004; ES 11764689 T 20111004; JP 2013530628 A 20111004;  
KR 20137011448 A 20111004; PL 10013273 T 20101004; PL 11764689 T 20111004; UA A201303323 A 20111004; ZA 201301695 A 20130306