

Title (en)  
Lightweight construction structure

Title (de)  
Leichtbaustruktur

Title (fr)  
Structure de construction légère

Publication  
**EP 2716828 B1 20170823 (DE)**

Application  
**EP 12006857 A 20121002**

Priority  
EP 12006857 A 20121002

Abstract (en)  
[origin: EP2716828A1] The structure (11) has a structure unit (12) comprising a circular beam (16) with star-shaped, radially outwardly-running supporting rods (13) that are connected with one another in a steady manner such that a framework is formed, where the rods run in an axial direction. The rods are connected to supporting structures that are designed as supporting polygons or supporting triangles. The rods comprise upper and lower covering plates, where the structure unit is designed with hexagonal outer contour. Spherical nodes are formed at connection points between the rods.

IPC 8 full level  
**E04B 1/19** (2006.01); **E04C 1/00** (2006.01); **E04C 2/34** (2006.01)

CPC (source: EP)  
**E04B 1/19** (2013.01); **E04B 1/1906** (2013.01); **E04B 2001/1978** (2013.01); **E04C 2002/3488** (2013.01)

Citation (examination)

- WO 9119866 A1 19911226 - TEAM CONSULTING LTD [GB]
- US 2006080835 A1 20060420 - KOOISTRA GREGORY W [US], et al
- WO 8101807 A1 19810709 - HARDIGG IND INC [US], et al
- DE 19528263 A1 19970206 - HOFFMANN HANS [DE], et al

Cited by  
EP3808907A4; WO2021140339A1; WO2017152238A1

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)  
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