

Title (en)
THREE-DIMENSIONAL LIGHTWEIGHT STEEL FRAMEWORK FORMED BY TWO-WAY CONTINUOUS DOUBLE BEAMS

Title (de)
DREIDIMENSIONALER LEICHTBAUSTAHLRAHMEN AUS BIDIREKTIONALEN KONTINUIERLICHEN DOPPELTRÄGERN

Title (fr)
OSSATURE EN ACIER LÉGER TRIDIMENSIONNELLE FORMÉE PAR DES POUTRES DOUBLES CONTINUES À DEUX VOIES

Publication
EP 3085844 B1 20210407 (EN)

Application
EP 15740446 A 20150126

Priority
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• CN 2015071574 W 20150126

Abstract (en)
[origin: EP3085844A1] A three-dimensional lightweight steel framework comprising a beam, a purlin and/or a stringer, a column, a wall body, a floor slab and/or a roof, and a lateral-force-resistant rod and/or tension braces. The beam is a continuous double beam comprising two identical or different continuous single beams attached at both sides of the column, the continuous single beam and the column are continuous and not interrupted at a cross joint of the continuous single beam and the column. The present invention has advantages of simple structure and low manufacturing cost.

IPC 8 full level
E04B 1/24 (2006.01); **E04B 1/28** (2006.01); **E04B 1/30** (2006.01); **E04B 2/84** (2006.01); **E04B 2/86** (2006.01); **E04B 5/40** (2006.01); **E04B 7/20** (2006.01); **E04C 3/04** (2006.01); **E04C 3/08** (2006.01); **E04C 3/293** (2006.01); **E04C 3/294** (2006.01); **E04C 3/34** (2006.01); **E04C 3/36** (2006.01); **E04C 5/06** (2006.01); **E04C 5/065** (2006.01); **E04C 5/16** (2006.01)

CPC (source: EP RU US)
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Citation (examination)
• US 8234827 B1 20120807 - SCHROEDER SR ROBERT [US], et al
• US 3600868 A 19710824 - WILSON EDGAR CLIFTON JR, et al

Cited by
CN106759905A

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ES 2877406 T3 20211116; JP 2017503942 A 20170202; JP 6368787 B2 20180801; MY 178769 A 20201020; PH 12016500906 A1 20160704;
RU 2016133978 A 20180301; RU 2016133978 A3 20180301; RU 2651723 C2 20180423; TW 201529938 A 20150801;
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