

Title (en)  
PREFABRICATED LIGHT STEEL CONCRETE PLATE COLUMN STRUCTURE AND CONSTRUCTION METHOD THEREFOR

Title (de)  
VORGEFERTIGTE LEICHTSTAHLBETONPLATTENSÄULENSTRUKTUR UND KONSTRUKTIONSVERFAHREN DAFÜR

Title (fr)  
STRUCTURE PRÉFABRIQUÉE À COLONNES ET PLAQUES EN ACIER LÉGER ET BÉTON ET PROCÉDÉ DE CONSTRUCTION ASSOCIÉ

Publication  
**EP 3306000 A4 20180627 (EN)**

Application  
**EP 16806817 A 20160607**

Priority

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- CN 201510733977 A 20151102
- CN 2016085141 W 20160607

Abstract (en)

[origin: EP3306000A1] A prefabricated lightweight steel reinforced concrete slab-column assembly which is a monolayer or multilayer structure comprises a plurality of vertical prefabricated lightweight steel-reinforced concrete columns (1). The monolayer or each layer of layer structure comprises a prefabricated lightweight steel-reinforced concrete floor (2) and prefabricated lightweight steel-reinforced concrete wall-like supports (3). The prefabricated lightweight steel-reinforced concrete floor (2) is demarcated into a plurality of floor slabs (21) by means of the columns and assembled therewith into the floor. The prefabricated lightweight steel-reinforced concrete wall-like supports (3) are disposed on the prefabricated lightweight steel-reinforced concrete floor (2) and separated apart by the columns so that each of them is sandwiched between two adjacent vertical prefabricated lightweight steel-reinforced concrete columns (1). Also disclosed is a method for constructing such a prefabricated lightweight steel reinforced concrete slab-column assembly. The assembly has a high component prefabrication and preassembly rate, allows low construction costs, requires fewer field wetting operations and is highly adaptable to various buildings.

IPC 8 full level  
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Citation (search report)

- [XAI] CN 201695515 U 20110105 - CHINA BUILDING TECH GROUP CO LTD, et al
- [X] CN 201661086 U 20101201 - ZHONGSHAN CITY KUAIERJU KIT HOME CO LTD
- [A] CN 104428472 A 20150318 - UNIV FUKUOKA
- [A] JP H11241412 A 19990907 - KAI KENCHIKU SEKKEI JIMUSHO KK
- [A] NL 1009433 C2 19991221 - L SNIJDERS BEHEER B V ING [NL]
- See references of WO 2016197919A1

Cited by  
CN113323308A; CN109736597A; CN109440992A

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