

Title (en)  
PREFABRICATED STRUCTURAL PANEL, MANUFACTURING METHOD AND STRUCTURAL SYSTEM

Title (de)  
VORGEFERTIGTE BAUPLATTE, HERSTELLUNGSVERFAHREN UND BAUSYSTEM

Title (fr)  
PANNEAU STRUCTUREL PRÉFABRIQUÉ, PROCÉDÉ DE FABRICATION ET SYSTÈME STRUCTUREL

Publication  
**EP 4389999 A1 20240626 (EN)**

Application  
**EP 23217499 A 20231218**

Priority  
IT 202200025908 A 20221219

Abstract (en)  
A prefabricated structural panel (1) for making an industrialized structural construction system (2), in particular panels for civilian buildings, wherein said prefabricated panel (1) defines a vertical or horizontal panel plane (3) with a peripheral edge (4) for the connections (16), comprises a load-bearing frame (5) made either of concrete or steel or wood extending substantially coplanar to the panel plane (3), wherein the load-bearing frame (5) defines at least one through opening (6) in a direction transverse to the panel plane (3), wherein the prefabricated panel (1) comprises at least one blind (7) or glass (12) filling layer housed in the load-bearing frame (5) so as to close at least one through opening (6), wherein the prefabricated panel (1) is completed in the fashion of an assembly line with a plurality of layers made of different materials assembled on both sides of the load-bearing frame (5) and the filling layer (7), in particular on the inner side of the filling element (7), a covering layer (9) fixed to metal profiles (8) defines the gap (10) for the circulation of air between the filling layer (7) and the covering layers (9), while on the outer side of the load-bearing frame (5) and the filling element (7), opposite to the covering layer (9), one or more layers (13) of isolating materials create the thermal and acoustic insulation of the prefabricated panel (1), everything thus being manufactured in a factory or on site; the prefabricated panels (1) are transported to the construction site to be assembled by means of a geometric interlocking coupling (16) and form housing units such as apartments, detached houses, and/or building projects with no limitations or restrictions.

IPC 8 full level  
**E04B 1/02** (2006.01); **E04B 1/14** (2006.01); **E04B 1/61** (2006.01); **E04B 1/70** (2006.01); **E04B 5/02** (2006.01); **E04B 5/04** (2006.01); **E04B 5/08** (2006.01); **E04B 5/10** (2006.01); **E04B 5/12** (2006.01)

CPC (source: EP US)  
**E04B 1/14** (2013.01 - EP); **E04B 1/6187** (2013.01 - EP); **E04B 1/7069** (2013.01 - EP); **E04B 2/62** (2013.01 - US); **E04B 2/7448** (2013.01 - US); **E04B 5/023** (2013.01 - EP); **E04B 5/04** (2013.01 - EP); **E04B 5/08** (2013.01 - EP); **E04B 5/10** (2013.01 - EP); **E04B 5/12** (2013.01 - EP); **E04B 1/04** (2013.01 - EP); **E04B 1/08** (2013.01 - EP); **E04B 1/10** (2013.01 - EP); **E04B 2001/6195** (2013.01 - EP)

Citation (applicant)  
• CH 699149 B1 20100129 - VALENTE CARMINE FRANCO [IT], et al  
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• [XA] WO 2021144612 A1 20210722 - VALENTE CARMINE FRANCO [IT], et al  
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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 ME MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA

Designated validation state (EPC)  
KH MA MD TN

DOCDB simple family (publication)  
**EP 4389999 A1 20240626**; US 2024200328 A1 20240620

DOCDB simple family (application)  
**EP 23217499 A 20231218**; US 202318541856 A 20231215