

Title (en)
CONSTRUCTION OF BUILDINGS USING WOODEN BLOCKS

Title (de)
GEBÄUDEBAU MIT HOLZBLÖCKEN

Title (fr)
CONSTRUCTION DE BÂTIMENTS EN BLOCS DE BOIS

Publication
EP 2591178 A1 20130515 (FR)

Application
EP 10742891 A 20100708

Priority
IB 2010053123 W 20100708

Abstract (en)
[origin: WO2012004633A1] This is a concept for constructing a building entirely out of wood, the building being any house from A to Z, the ultimate objective being self-build. Once the blocks have been placed one on top of the other, and once the structure is finished, the house is complete! There is no longer any need to provide an inner or outer skin. Indeed, the inside of the blocks, the inside of the walls, can accommodate all possible and conceivable utility shafts, electric wiring, water supply pipes, heating pipes, waste pipes, ventilation and insulation... The design is not simply a block, that would be too easy, but a block of a certain size which, when applied in certain ways, enables an entire house or an entire building to be constructed quickly and simply. Thus: - the walls are built (without a single nail or screw, simply by nesting the blocks together, like a construction set); - floor beams are created using the same wooden system, but prestressed with threaded rods, providing very high strength and able to cover wide spans (the wall-floor relationship is a fundamental element justifying this type of build); - a staircase is created (again using the same system of blocks and simply by nesting them together) (a child's toy at a ridiculously low cost); - and a roof is built (the simplest and most economic form of roof would be a flat roof, but a sloping roof could also be created). Even though foundations are needed only at the corners of the main bearing walls, this lightweight construction is very robust. Joists spread the weight of the flooring over all of the walls, and threaded rods start from the foundations and rise up vertically at the various corners of the house. Even the roof is firmly attached to the foundations. The house is able to withstand all winds in all climates.

IPC 8 full level
E04B 1/16 (2006.01); **E04B 2/42** (2006.01); **E04B 2/70** (2006.01)

CPC (source: EP US)
E04B 1/165 (2013.01 - EP US); **E04B 1/26** (2013.01 - EP US); **E04B 2/42** (2013.01 - EP US); **E04B 2/46** (2013.01 - EP US); **E04B 2/704** (2013.01 - EP US); **E04C 2/30** (2013.01 - US); **E04F 11/035** (2013.01 - EP US); **E04B 2/8641** (2013.01 - EP US); **E04B 2001/3583** (2013.01 - EP US); **E04B 2002/0206** (2013.01 - EP US); **E04F 11/108** (2013.01 - EP US); **E04F 13/105** (2013.01 - EP US)

Citation (search report)
See references of WO 2012004633A1

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 SE SI SK SM TR

DOCDB simple family (publication)
WO 2012004633 A1 20120112; AU 2010356994 A1 20130228; EP 2591178 A1 20130515; LU 91966 B1 20120705;
US 2013104488 A1 20130502

DOCDB simple family (application)
IB 2010053123 W 20100708; AU 2010356994 A 20100708; EP 10742891 A 20100708; LU 91966 A 20100708; US 201013808593 A 20100708