

Title (en)

Zigzag wooden elements comprising a core layer and multiple layer composite comprising the core layer

Title (de)

Kernschicht aufweisend zick-zack-förmig ausgebildete Holzelemente und Mehrschichtverbund aufweisend die Kernschicht

Title (fr)

Noyau présentant des éléments de bois en zigzag et composite multicouche doté de ce noyau

Publication

EP 2660408 B1 20170712 (DE)

Application

EP 12003427 A 20120504

Priority

EP 12003427 A 20120504

Abstract (en)

[origin: EP2660408A1] The core layer has zigzag-shaped timber elements (30) that are arranged in a main portion such that two edges (70) of the zigzag-shaped timber elements which are same or different from each other intersect at an angle which is different from zero. The two zigzag-shaped timber elements are fixedly connected to each other at an intersection point (40). Independent claims are included for the following: (1) a method for manufacturing core layer; and (2) a multilayer composite.

IPC 8 full level

E04C 2/34 (2006.01)

CPC (source: EP RU US)

E04C 2/12 (2013.01 - EP US); **E04C 2/322** (2013.01 - US); **E04C 2/3405** (2013.01 - EP RU US); **E04C 2002/345** (2013.01 - EP US); **E04C 2002/3472** (2013.01 - EP US); **Y10T 156/10** (2015.01 - EP US); **Y10T 428/24066** (2015.01 - EP US); **Y10T 428/24719** (2015.01 - EP US)

Citation (examination)

DE 4201201 A1 19930722 - MOELLER ACHIM DR ING [DE]

Cited by

WO2017191326A1; US11433593B2; EP3037600A1; US10668699B2; EP3208400A1; EP3909733A1; DE102020113284A1; EP3363960B1

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

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 2660408 A1 20131106; **EP 2660408 B1 20170712**; BR 112014027475 A2 20170808; CA 2871956 A1 20131107; CA 2871956 C 20190115; CN 104364453 A 20150218; CN 104364453 B 20170606; EP 3269893 A1 20180117; EP 3269893 B1 20210310; ES 2643152 T3 20171121; HR P20171522 T1 20171117; IN 9148DEN2014 A 20150522; JP 2015523916 A 20150820; JP 6336964 B2 20180606; PL 2660408 T3 20171229; RU 2014148771 A 20160627; RU 2608088 C2 20170113; US 2013316125 A1 20131128; WO 2013164100 A1 20131107

DOCDB simple family (application)

EP 12003427 A 20120504; BR 112014027475 A 20130503; CA 2871956 A 20130503; CN 201380023563 A 20130503; EP 17180758 A 20120504; EP 2013001322 W 20130503; ES 12003427 T 20120504; HR P20171522 T 20171010; IN 9148DEN2014 A 20141031; JP 2015509334 A 20130503; PL 12003427 T 20120504; RU 2014148771 A 20130503; US 201313886444 A 20130503