

Title (en)

MECHANICAL LOCKING SYSTEM FOR FLOOR PANELS

Title (de)

MECHANISCHES VERSCHLUSSSYSTEM FÜR BODENPLATTEN

Title (fr)

SYSTÈME D'EMBOÎTEMENT MÉCANIQUE POUR PANNEAUX DE PLANCHER

Publication

**EP 2734684 A4 20150311 (EN)**

Application

**EP 12815189 A 20120711**

Priority

- SE 1150713 A 20110719
- US 201161509309 P 20110719
- SE 2012050828 W 20120711

Abstract (en)

[origin: WO2013012386A1] Floor panels are shown, which are provided with a vertical locking system on short edges having a displaceable tongue that is displaced in one direction into a tongue groove during vertical displacement of two panels.

IPC 8 full level

**E04F 15/04** (2006.01); **E04F 15/02** (2006.01)

CPC (source: CN EP RU)

**E04F 15/02** (2013.01 - CN); **E04F 15/02038** (2013.01 - CN EP RU); **E04F 2201/0138** (2013.01 - EP); **E04F 2201/0523** (2013.01 - EP); **E04F 2201/0547** (2013.01 - EP); **E04F 2201/0582** (2013.01 - EP)

Citation (search report)

- [XAY] EP 2270291 A1 20110105 - FLOORING TECHNOLOGIES LTD [MT]
- [Y] EP 1650375 A1 20060426 - VAELINGE INNOVATION AB [SE]
- [A] WO 2011012104 A2 20110203 - SCHULTE GUIDO [DE], et al
- [A] DE 102009041297 A1 20110324 - SCHULTE GUIDO [DE]
- See references of WO 2013012386A1

Cited by

EP2923012A4; US10246883B2; US10519676B2; US10240349B2; US10138636B2; US10731358B2; US11261608B2; US10017948B2; US10352049B2; US11060302B2; US11066835B2; US11746536B2; US11781324B2

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

DOCDB simple family (publication)

**WO 2013012386 A1 20130124**; AU 2012284623 A1 20140116; AU 2012284623 B2 20170323; AU 2012284623 C1 20170706; BR 112014000516 A2 20171031; BR 112014000516 A8 20180403; BR 112014000516 B1 20201208; CA 2841240 A1 20130124; CA 2841240 C 20210216; CN 103703197 A 20140402; CN 103703197 B 20160629; CN 105971223 A 20160928; CN 105971223 B 20181109; EP 2734684 A1 20140528; EP 2734684 A4 20150311; EP 2734684 B1 20160817; EP 3135838 A1 20170301; EP 3135838 B1 20200902; EP 3760812 A1 20210106; EP 3760812 B1 20231227; ES 2602317 T3 20170220; HU E030211 T2 20170428; JP 2014520987 A 20140825; JP 6005154 B2 20161012; KR 102083655 B1 20200302; KR 20140053168 A 20140507; MX 2014000388 A 20140321; MX 344603 B 20161220; MY 164102 A 20171130; PL 2734684 T3 20170228; PL 3135838 T3 20210823; PT 2734684 T 20161101; RS 55314 B1 20170331; RU 2014103804 A 20150827; RU 2016140240 A 20181213; RU 2016140240 A3 20200403; RU 2602850 C2 20161120; RU 2721838 C2 20200525; UA 114404 C2 20170612

DOCDB simple family (application)

**SE 2012050828 W 20120711**; AU 2012284623 A 20120711; BR 112014000516 A 20120711; CA 2841240 A 20120711; CN 201280034259 A 20120711; CN 201610380081 A 20120711; EP 12815189 A 20120711; EP 16184205 A 20120711; EP 20192928 A 20120711; ES 12815189 T 20120711; HU E12815189 A 20120711; JP 2014521595 A 20120711; KR 20147003041 A 20120711; MX 2014000388 A 20120711; MY PI2013004452 A 20120711; PL 12815189 T 20120711; PL 16184205 T 20120711; PT 12815189 T 20120711; RS P20160953 A 20120711; RU 2014103804 A 20120711; RU 2016140240 A 20120711; UA A201401060 A 20120711