

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 A1 20140528 (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 (third parties)

Third party :

- EP 2270291 A1 20110105 - FLOORING TECHNOLOGIES LTD [MT]
- WO 2011127981 A1 20111020 - SPANOLUX N V DIV BALTERIO [BE], et al

Cited by

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

Designated contracting state (EPC)

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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