

Title (en)

MECHANICAL LOCKING SYSTEM FOR FLOOR PANELS

Title (de)

MECHANISCHES VERSCHLUSSSYSTEM FÜR BODENPLATTEN

Title (fr)

SYSTÈME DE VERROUILLAGE MÉCANIQUE POUR PANNEAUX DE PLANCHER

Publication

EP 3135838 A1 20170301 (EN)

Application

EP 16184205 A 20120711

Priority

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- EP 12815189 A 20120711
- SE 2012050828 W 20120711

Abstract (en)

In accordance with the present inventive concept, there is provided building panels provided with a locking system for vertical locking of a first and a second building panel by a vertical displacement of the panels relative each other. A strip pressing surface is provided on a strip of the first building panel and is such that a displaceable tongue (30) provided in a sidewardly open displacement groove at an edge of the second building panel is displaced into a tongue groove of the first building panel when a tongue pressing surface (32) provided on the displaceable tongue and the strip pressing surface (33) are displaced vertically against each other. A locking surface (33) on a locking element (8) is used as a pressing surface as well as a locking surface for horizontal locking of the building panels.

IPC 8 full level

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

CPC (source: CN EP RU)

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Citation (applicant)

WO 2006043893 A1 20060427 - VAELINGE INNOVATION AB [SE], et al

Citation (search report)

- [XAY] EP 2270291 A1 20110105 - FLOORING TECHNOLOGIES LTD [MT]
- [YA] EP 1650375 A1 20060426 - VAELINGE INNOVATION AB [SE]
- [XAY] EP 2034106 A1 20090311 - FLOORING TECHNOLOGIES LTD [MT]
- [A] WO 2011012104 A2 20110203 - SCHULTE GUIDO [DE], et al
- [A] DE 102009041297 A1 20110324 - SCHULTE GUIDO [DE]

Cited by

US11466717B2; WO2021116413A1

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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

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