

Title (en)  
MECHANICAL LOCKING SYSTEM FOR BUILDING PANELS

Title (de)  
MECHANISCHES ARRETIERUNGSSYSTEM FÜR BAUPLATTEN

Title (fr)  
SYSTÈME DE VERROUILLAGE MÉCANIQUE POUR PANNEAUX DE BÂTIMENT

Publication  
**EP 3760812 A1 20210106 (EN)**

Application  
**EP 20192928 A 20120711**

Priority

- SE 1150713 A 20110719
- US 201161509309 P 20110719
- EP 16184205 A 20120711
- 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 (1) and a second (1') building panel by a vertical displacement of the panels relative each other. A displaceable tongue (30) provided in a sidewardly open displacement groove (40) at an edge of the second building panel is configured to be displaced into a tongue groove (20) of the first building panel when a tongue pressing surface (32) provided on the displaceable tongue and a strip pressing surface (33) provided on a strip (8) of the first building panel are displaced vertically against each other.

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

Citation (search report)

- [A] EP 1650375 A1 20060426 - VAELINGE INNOVATION AB [SE]
- [Y] EP 2270291 A1 20110105 - FLOORING TECHNOLOGIES LTD [MT]
- [XAY] WO 2011012104 A2 20110203 - SCHULTE GUIDO [DE], et al
- [A] DE 102009041297 A1 20110324 - SCHULTE GUIDO [DE]
- [Y] WO 2007141605 A2 20071213 - FLOORING IND LTD [IE], et al
- [Y] EP 1243721 A2 20020925 - AKZENTA PANELEE & PROFILE GMBH [DE]

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