

Title (en)

Device for locking building panels, especially floor panels

Title (de)

Einrichtung zum Verriegeln von Bauplatten, insbesondere Bodenpaneelen

Title (fr)

Dispositif pour verrouiller les panneaux de construction, notamment les panneaux de sol

Publication

EP 1420125 A3 20050511 (DE)

Application

EP 03004606 A 20030301

Priority

DE 10253236 A 20021115

Abstract (en)

[origin: EP1420125A2] Device for locking together interconnected structural panels (1a, 2a), especially floor panels, comprises a core of wood material having on at least one edge a groove (4a) and on the opposite-lying edge a tongue (3a) corresponding to the groove. Two interconnected panels are locked together by the tongue and groove connection in a horizontal (H) or a vertical direction (V). The tongue and the groove are each provided with at least one recess (5). The recesses lie opposite each other when the plates are interconnected. An insert (7) engaging in the recesses has at least one elastic lip (7') which is used to lock the panel in the other, either vertical or horizontal, direction. Preferred Features: The insert is a plastic injection-molded part having two lips.

IPC 1-7

E04F 15/02

IPC 8 full level

E04F 15/02 (2006.01)

CPC (source: EP US)

E04F 15/02 (2013.01 - EP US); **E04F 15/181** (2013.01 - EP US); **E04F 2201/0115** (2013.01 - EP US); **E04F 2201/0138** (2013.01 - EP US); **E04F 2201/023** (2013.01 - EP US); **E04F 2201/026** (2013.01 - EP US); **E04F 2201/0523** (2013.01 - EP US); **E04F 2201/0529** (2013.01 - EP US); **E04F 2290/043** (2013.01 - EP US)

Citation (search report)

- [E] EP 1367194 A2 20031203 - KRONOTEC AG [CH]
- [PX] WO 03016654 A1 20030227 - AKZENTA PANELEE & PROFILE GMBH [DE], et al
- [X] US 5274979 A 19940104 - TSAI JUI-HSING [TW]
- [DA] DE 20021779 U1 20020502 - KRONOTEC AG [CH]

Cited by

DE102017110880A1; DE102017110878A1; DE102008046749A1; US10214917B2; DE102006011887A1; DE102008046749B4; DE102005061645B4; DE102005061645A1; EP2270291A1; DE102007043308B4; DE102007043308A1; EP1555357A1; EP2405078A3; NO339182B1; WO2005068746A1; US10246883B2; US11045933B2; BE1018600A5; EA025886B1; EA028874B1; US10724251B2; US11091920B2; US11613897B2; US10378217B2; US10837181B2; US9803375B2; US9945130B2; US10113319B2; US10655339B2; US11408181B2; US9663940B2; US9725912B2; US10125488B2; US10480196B2; US10519676B2; US10995501B2; US9206611B2; US9874027B2; US10006210B2; US10240349B2; US10526792B2; US11078673B2; US9719542B2; US10982700B2; US11781577B2; US10017948B2; US10180005B2; US10352049B2; US10968639B2; US11060302B2; US11066835B2; US11746536B2; US11781324B2; WO2009066153A3; US9951526B2; US10287777B2; US10458125B2; US10794065B2; US10851549B2; US11053692B2; US11725394B2; US11814850B2; US8839584B2; US10669723B2; US11193283B2; US11680415B2; DE202010015754U1; WO2012069485A1; US10138636B2; US10538922B2; US10731358B2; US10953566B2; US11261608B2; US11274453B2; US11331824B2; US9803374B2; US9856656B2; US10161139B2; US10570625B2; US11174646B2; DE102017110880B4; US11480204B2; US11913236B2; US10047527B2; US10293512B2; US10316526B2; US10358830B2; US10526793B2; US10808410B2; US10865571B2; US10982449B2; US11053691B2; US11306486B2; US11661749B2; US11808045B2; EP3859098B1; US9611656B2; US9677285B2; US10156078B2; US10233653B2; US10240348B2; US10407919B2; US10626619B2; US10640989B2; US10828798B2; US10844612B2; US10975577B2; US11131099B2; US11358301B2; US11421426B2; US11674319B2; US11898356B2; US9777487B2; WO2018211054A1; US10214915B2; US10815676B2; US10876303B2; US10889998B2; US10927553B2; US10934721B2; US11035133B2; US11193282B2; US11236514B2; US11377857B2; US11505949B2; US11519183B2; US9695599B2; US9890542B2; US10113318B2; US10125499B2; US10358831B2; US10519674B2; US10745921B2; US10933592B2; US10975579B2; US10975578B2; US11680414B2; US11725395B2; US11933055B2; US8621814B2; US9695856B2; US9771723B2; US9797427B2; US10323670B2; US10704269B2; US10731689B2; US10815674B2; US10935063B2; US10995500B2; US11085475B2; US11319977B2; US11359387B2; US11668101B2; US11788568B2; US11795701B2; EP2405077B1; EP2405077B2

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US 2004128934 A1 20040708; US 7484337 B2 20090203; AT E395481 T1 20080515; DE 50309830 D1 20080626; EP 1420125 A2 20040519; EP 1420125 A3 20050511; EP 1420125 B1 20080514; ES 2307840 T3 20081201; US 2009133358 A1 20090528; US 9169658 B2 20151027

DOCDB simple family (application)

US 70413003 A 20031110; AT 03004606 T 20030301; DE 50309830 T 20030301; EP 03004606 A 20030301; ES 03004606 T 20030301; US 36471009 A 20090203