

Title (en)
Floor planks

Title (de)
Fussbodendielen

Title (fr)
Planches de plancher

Publication
EP 1350904 B2 20121024 (DE)

Application
EP 03008103 A 20030407

Priority
DE 10215139 A 20020405

Abstract (en)
[origin: EP1350904A2] The profile for the connecting of at least two floor elements (1) has interacting grooves (10) and tongues (18a) on respective ends (2,4) of the elements, and corresponding locking elements (56,58) on each groove and tongue which in their vertical position fix two floor elements. The locking elements have bevelled contact faces, and either the tongue of the profile, or the groove and tongue, are elastically deformable. The groove and tongue form lock and especially in cone fashion.

IPC 8 full level
E04F 15/02 (2006.01); **E04F 15/04** (2006.01)

CPC (source: EP)
E04F 15/04 (2013.01); **E04F 2201/0146** (2013.01); **E04F 2201/041** (2013.01)

Citation (opposition)
Opponent :
• WO 0188307 A1 20011122 - EUROP DE LAQUAGE ET DE FACONNA [FR], et al
• DE 20203311 U1 20020508 - HUELSTA WERKE HUELS KG [DE]

Cited by
JP2011522982A; DE102009041297A1; DE102009041297B4; JP2013011169A; WO2011038709A1; WO2006133690A1; EP1978179A1; DE102014103174A1; WO2008116623A1; US9663940B2; CN102296779A; CN102383566A; CN104246091A; US9938727B2; DE102011104718A1; DE102011104718B4; AU2009270573B2; DE102008021970A1; DE102008021970B4; DE102007019786B4; DE102007018309B4; DE102007063720B4; DE102007017087A1; CN102383565A; DE102007017087B4; EP2686502A4; RU2622945C2; US2015113908A1; JP2015513024A; US9347227B2; SE1830029A1; DE102005028072A1; DE102005028072B4; CN102498251A; DE102009048050B3; EP2009197A4; US2013097959A1; EP2749710A1; WO2012168033A1; DE102007015048A1; DE102007015048B4; BE1017157A3; BE1018802A3; AU2010202128B2; EP4223957A3; EP2978909A4; AU2014263243B2; EP3358101A1; EP3540146A1; EP1917407A1; JP2009533571A; WO2008110112A1; WO2010006684A3; WO2011032540A3; US8726513B2; US11781577B2; US9206611B2; US9874027B2; US10240349B2; US10246883B2; WO2020115415A1; FR3089534A1; US11828072B2; WO2013102804A2; US9803375B2; US10113319B2; US10655339B2; US11408181B2; WO2013151494A1; WO2014108129A1; WO2009080328A1; US10669723B2; US11193283B2; US11680415B2; JP2009543961A; WO2006125306A1; WO2011001326A3; WO2012136021A1; US9212492B2; US9714515B2; US9777487B2; US10214917B2; US11519183B2; DE202014101950U1; US10138636B2; US10538922B2; US10731358B2; US11261608B2; US11274453B2; US9951526B2; US10287777B2; US10458125B2; US10794065B2; US10851549B2; US11053692B2; US11725394B2; US11814850B2; WO2014191861A1; US10000935B2; US10100531B2; US10287779B2; US10640990B2; US10724251B2; US11091920B2; US11613897B2; US8973331B2; US9091077B2; US9316002B2; US9725912B2; US10125488B2; US10480196B2; US10519676B2; US10995501B2; DE202010017748U1; US9803374B2; US9856656B2; US10161139B2; US10570625B2; US11174646B2; US11913236B2; US8191334B2; EP2829668A1; US10017948B2; US10180005B2; US10352049B2; US10968639B2; US11060302B2; US11066835B2; DE202009004530U1; US11746536B2; US11781324B2; WO2011032540A2; US8375672B2; WO2013102803A2; US8635829B2; DE102013101756A1; DE102015106035A1; US9290950B2; US9476207B2; US10378217B2; US10837181B2; US8281549B2; US8752352B2; DE102013108538A1; US10047527B2; US10316526B2; US10358830B2; US10526793B2; US10808410B2; US10865571B2; US10982449B2; US11053691B2; US11306486B2; US11661749B2; US11808045B2; DE102013108539A1; US9611656B2; US9677285B2; US10156078B2; US10233653B2; US10240348B2; US10301830B2; US10407919B2; US10626619B2; US10640989B2; US10844612B2; US10975577B2; US11131099B2; US11421426B2; US11674319B2; US11898356B2; EP2146025A2; DE202007018662U1; US8302361B2; US8511040B2; US8615953B2; US9695599B2; US9890542B2; US10125499B2; US10358831B2; US10519674B2; BE1026833A1; US10745921B2; US10975579B2; US10975578B2; EP3901392A1; US11396758B2; DE102007041024B4; US11680414B2; US11725395B2; US11933055B2; DE202008008597U1; DE102007018309A1; DE202007018998U1; DE202007019001U1; DE202007018999U1; DE202007019281U1; DE202007019282U1; DE202007019298U1; US8621814B2; WO2014187434A1; EP2843154A1; DE202007019674U1; EP3103938A1; US9695601B2; US9771723B2; US10704269B2; US10815674B2; US10995500B2; EP3859098A1; US11359387B2; US11668101B2; US11795701B2

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Designated extension state (EPC)
LT LV

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EP 1350904 A2 20031008; EP 1350904 A3 20031217; EP 1350904 B1 20090617; EP 1350904 B2 20121024; AT E434095 T1 20090715; DE 50311595 D1 20090730; ES 2327502 T3 20091030; ES 2327502 T5 20130314

DOCDB simple family (application)
EP 03008103 A 20030407; AT 03008103 T 20030407; DE 50311595 T 20030407; ES 03008103 T 20030407