

Title (en)

Floor covering, panel and panel fastening system

Title (de)

Fussbodenbelag, Paneel sowie Befestigungssystem für Paneele

Title (fr)

Revêtement de sol, panneau et dispositif de fixation pour panneaux

Publication

EP 1243721 A3 20030709 (DE)

Application

EP 02014295 A 19991009

Priority

- DE 19929896 A 19990630
- DE 29911462 U 19990702
- EP 99957872 A 19991009

Abstract (en)

[origin: EP1243721A2] The mating holding profiles (4a,4b) hook together via elements (4c,4d) whose holding faces (5h) close the panels (4,6) together to give gap-free flooring. The hook element of the leading holding profile of one panel forms a crosspiece (4e) projecting at right angles from the narrow element side so as to lie on the top surface of the panel and a hook projecting from the free end of the crosspiece towards the underside of the panel as against the trailing holding profile of a panel which has a hook to reach out from the narrow side and form a crosspiece bearing on the underside of the panel. A hook projection from the free end of the crosspiece points towards the top side of the panel. Joined panels form a glue pocket between (12).

IPC 1-7

E04F 15/04

IPC 8 full level

B27F 1/04 (2006.01); **E04F 15/04** (2006.01)

CPC (source: EP US)

B27F 1/04 (2013.01 - EP US); **E04F 15/02** (2013.01 - EP US); **E04F 15/04** (2013.01 - EP US); **E04F 2201/0115** (2013.01 - EP US); **E04F 2201/0138** (2013.01 - EP US); **E04F 2201/0146** (2013.01 - EP US); **E04F 2201/0153** (2013.01 - EP US); **E04F 2201/023** (2013.01 - EP US); **E04F 2201/025** (2013.01 - EP US); **E04F 2201/07** (2013.01 - EP US); **Y10T 403/65** (2015.01 - EP US); **Y10T 403/655** (2015.01 - EP US)

Citation (search report)

- [A] EP 0135749 A1 19850403 - HAHNE & MOLLENHAUER STAMA [DE], et al
- [A] DE 2238660 A1 19740207 - HEBGEN HEINRICH
- [A] FR 1426843 A 19660128 - JUNCKERS SAVVAERK AS

Cited by

FR2910034A1; NL2003019C2; US9745758B2; ITPD20100259A1; EP3760812A1; US10947741B2; US11441319B2; US9874028B2; US10267046B2; US10774540B2; USD928988S; US11352800B2; US11946261B2; WO2010143943A1; WO2010143962A3; US10738477B2; US11319712B2; US11913237B2; US8745952B2; US8978336B2; US9217250B2; US10053868B2; US10738480B2; US10738479B2; US10738481B2; US10738482B2; US11668100B2

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

EP 1243721 A2 20020925; EP 1243721 A3 20030709; AT E222634 T1 20020915; AT E277246 T1 20041015; AU 1546600 A 20010122; AU 1546800 A 20010122; CA 2377799 A1 20010111; CA 2377799 C 20051129; CA 2377919 A1 20010111; CA 2377919 C 20051004; DE 59902425 D1 20020926; DE 59908387 D1 20040226; EP 1165906 A1 20020102; EP 1165906 B1 20020821; EP 1190149 A1 20020327; EP 1190149 B1 20040121; EP 2116666 A1 20091111; EP 2116666 B1 20180328; EP 2312087 A2 20110420; EP 2312087 A3 20110427; EP 2312087 B1 20180328; ES 2182582 T3 20030301; ES 2228133 T3 20050401; PT 1190149 E 20050131; RU 2224070 C2 20040220; US 6505452 B1 20030114; US 7896571 B1 20110301; WO 0102669 A1 20010111; WO 0102670 A1 20010111

DOCDB simple family (application)

EP 02014295 A 19991009; AT 99957872 T 19991009; AT 99957874 T 19991009; AU 1546600 A 19991009; AU 1546800 A 19991009; CA 2377799 A 19991009; CA 2377919 A 19991009; DE 59902425 T 19991009; DE 59908387 T 19991009; DE 9903257 W 19991009; DE 9903259 W 19991009; EP 09002746 A 19991009; EP 10178733 A 19991009; EP 99957872 A 19991009; EP 99957874 A 19991009; ES 99957872 T 19991009; ES 99957874 T 19991009; PT 99957874 T 19991009; RU 2002102240 A 19991009; US 1919599 A 19991009; US 93779901 A 20010927