

Title (en)
PANEL

Title (de)
PANEEL

Title (fr)
PANNEAUX

Publication
EP 2655761 B1 20170913 (DE)

Application
EP 11808611 A 20111213

Priority
• DE 102010063976 A 20101222
• EP 2011072573 W 20111213

Abstract (en)
[origin: CN202055464U] The utility model relates to an insert panel which comprises a body, an accepting hook (5) and a locking hook (6), wherein the accepting hook (5) and the locking hook (6) are complementary mutually; the accepting hook is provided with a hook edge, an accepting groove, a joint surface (15) and a shaped locking profile; the locking hook is provided with a locking groove, a locking flange (12), a joint surface (13) and a locking profile; and an accepting opening (19) is formed on the accepting hook. After the locking profile retracts into the plane of the joint surface (13), the shaped locking profile at least locally protrudes out of the plane of the joint surface (15), and the end part of the flange can be firstly placed into the accepting opening in the jointed motion process, so that a horizontal locking surface (17) of the locking hook is partly contacted with a horizontal locking surface (18) of the accepting hook, and the accepting hook is provided with a bent bridging part with bending elasticity; therefore, the width of the accepting opening can be enlarged, the locking flange can be totally embedded into the accepting groove, and the locking profile is embedded into the shaped locking profile. With the adoption of the insert panel, the diversity of plastic materials capable of being used for the body is enlarged, and the vertical locking effect is improved.

IPC 8 full level
E04F 15/10 (2006.01); **E04F 15/02** (2006.01); **E04C 2/38** (2006.01)

CPC (source: EP KR US)
C10L 11/04 (2013.01 - EP); **C10L 11/06** (2013.01 - EP); **E04C 2/38** (2013.01 - EP US); **E04F 13/0894** (2013.01 - US); **E04F 15/02** (2013.01 - EP); **E04F 15/02038** (2013.01 - EP US); **E04F 15/10** (2013.01 - EP KR); **E04F 15/105** (2013.01 - EP US); **E04F 2201/0146** (2013.01 - EP US); **E04F 2201/0153** (2013.01 - EP US); **E04F 2201/0176** (2013.01 - EP US); **E04F 2201/03** (2013.01 - EP US); **E04F 2201/041** (2013.01 - EP)

Citation (examination)
EP 2339092 A1 20110629 - FLOORING IND LTD SARL [LU]

Citation (opposition)
Opponent : Akzenta Paneele + Profile GmbH
• WO 2012001503 A1 20120105 - KREAFIN GROUP SA [LU], et al
• US 2010031594 A1 20100211 - LIU DAVID C [US], et al
• US 6591568 B1 20030715 - PAALSSON JOERGEN [SE]
• DE 102004001363 A1 20050804 - HAMBERGER INDUSTRIEWERKE GMBH [DE]
• WO 2007141605 A2 20071213 - FLOORING IND LTD [IE], et al
• WO 2007020088 A1 20070222 - BAUER JOERG R [DE]
• DE 202008010555 U1 20091217 - AKZENTA PANELEE & PROFILE GMBH [DE]

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DE 102010063976 A1 20120628; **DE 102010063976 B4 20130117**; BR 112013016040 A2 20170919; BR 112013016040 B1 20200804; CA 2821606 A1 20120628; CA 2821606 C 20160202; CA 2821606 E 20120628; CN 102535811 A 20120704; CN 102535811 B 20150701; CN 202055464 U 20111130; DE 202011110833 U1 20160819; EP 2655761 A1 20131030; EP 2655761 B1 20170913; EP 3121348 A1 20170125; EP 3121348 B1 20220817; ES 2651618 T3 20180129; ES 2927611 T3 20221108; HK 1172667 A1 20130426; JP 2014500422 A 20140109; JP 5913360 B2 20160427; KR 101494563 B1 20150217; KR 20130121141 A 20131105; MY 169659 A 20190426; PL 2655761 T3 20180228; PL 3121348 T3 20230102; PT 2655761 T 20171214; PT 3121348 T 20220927; RU 2013133451 A 20150127; RU 2552504 C2 20150610; UA 110501 C2 20160112; US 2013276398 A1 20131024; US 2014283477 A1 20140925; US 8720150 B2 20140513; US 9175475 B2 20151103; US RE47496 E 20190709; WO 2012084604 A1 20120628

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