

Title (en)
PANEL AND INTERLOCKING SYSTEM FOR PANELS

Title (de)
PANEEL SOWIE VERRIEGELUNGSSYSTEM FÜR PANELEE

Title (fr)
PANNEAU ET SYSTEME DE VERROUILLAGE POUR PANNEAUX

Publication
EP 1490566 B1 20060809 (DE)

Application
EP 03722237 A 20030328

Priority
• DE 0301025 W 20030328
• DE 10214972 A 20020404

Abstract (en)
[origin: DE20220655U1] A groove profile (4) and a tongue profile (5) comprise edge profiles which are respectively formed on two opposite edges of panels (2,3). The engaged groove and tongue profiles form an articulated joint (G) that restores the panels to their installation plane when deflected either up or down. The groove profile has an upper groove wall (6) and a lower groove wall (7). The tongue profile has a notch projection (12) on the underside of the tongue that engages a notch recess (11) in the lower groove wall of an adjacent panel in the assembled state. The inside of upper groove wall has a flank (21) that opens towards the free end of the upper groove wall.

IPC 8 full level
E04F 15/04 (2006.01)

CPC (source: EP US)
E04F 15/04 (2013.01 - EP US); **E04F 2201/0153** (2013.01 - EP US); **E04F 2201/023** (2013.01 - EP US); **E04F 2201/0594** (2013.01 - EP US)

Cited by
US10947741B2; US11441319B2; US10738480B2; US10738481B2; US10738482B2

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)
US 2003188504 A1 20031009; US 7146772 B2 20061212; AT E335893 T1 20060915; AU 2003229498 A1 20031020; CA 2481393 A1 20031016; CA 2481393 C 20090630; CN 100354491 C 20071212; CN 1643227 A 20050720; DE 10214972 A1 20031030; DE 20220655 U1 20040108; DE 50304572 D1 20060921; EP 1490566 A1 20041229; EP 1490566 B1 20060809; ES 2270017 T3 20070401; PL 204800 B1 20100226; PL 374055 A1 20050919; RU 2004132214 A 20050520; RU 2007129572 A 20090210; RU 2451783 C2 20120527; US 2007245670 A1 20071025; US 7454874 B2 20081125; WO 03085222 A1 20031016

DOCDB simple family (application)
US 24561102 A 20020917; AT 03722237 T 20030328; AU 2003229498 A 20030328; CA 2481393 A 20030328; CN 03807459 A 20030328; DE 0301025 W 20030328; DE 10214972 A 20020404; DE 20220655 U 20020404; DE 50304572 T 20030328; EP 03722237 A 20030328; ES 03722237 T 20030328; PL 37405503 A 20030328; RU 2004132214 A 20030328; RU 2007129572 A 20070801; US 63744106 A 20061212