

Title (en)  
Profile rail made of cold formed steel

Title (de)  
Profilschiene aus kaltgeformtem Stahl

Title (fr)  
Rail de profilé en acier formé à froid

Publication  
**EP 1881122 A2 20080123 (DE)**

Application  
**EP 07112747 A 20070719**

Priority  
DE 102006033456 A 20060719

Abstract (en)  
The rail (1) has a screwing channel (2) for engaging self-cutting screws and including two channel flanks (3a, 3b) that are laid opposite to each other. One of the flanks is partially provided with a parallel groove structure (4) for perpendicularly guiding the screw during a screwing operation. The structure transversely extends to a longitudinal direction of the rail, and is formed by coining in the screwing channel. The structure includes grooves, where a cross section of each groove has a basic form of an equilateral triangle or trapezoid.

Abstract (de)  
Profilschiene aus kaltgeformtem Stahl, insbesondere für ein Fassadensystem zur Verkleidung eines Bauwerks, die einen Schraubkanal (2) zum Eingriff für selbstschneidende Schrauben aufweist, wobei mindestens eine der beiden einander gegenüberliegenden Kanalfanken (3a, 3b) des Schraubkanals (2) zumindest teilweise mit einer sich quer zur Längsrichtung der Profilschiene (1) erstreckenden Parallelrillenstruktur (4) zur lotrechten Führung der Schraube während des Einschraubens versehen ist.

IPC 8 full level  
**E04B 2/96** (2006.01)

CPC (source: EP)  
**E04B 2/967** (2013.01); **E04C 3/07** (2013.01); **E04C 2003/0473** (2013.01); **E04F 13/0803** (2013.01)

Cited by  
WO2017083991A1

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

Designated extension state (EPC)  
AL BA HR MK YU

DOCDB simple family (publication)  
**EP 1881122 A2 20080123**; **EP 1881122 A3 20090930**; **EP 1881122 B1 20110119**; AT E496180 T1 20110215; DE 102006033456 B3 20071018; DE 502007006287 D1 20110303; DK 1881122 T3 20110516; ES 2360201 T3 20110601; PL 1881122 T3 20110729

DOCDB simple family (application)  
**EP 07112747 A 20070719**; AT 07112747 T 20070719; DE 102006033456 A 20060719; DE 502007006287 T 20070719; DK 07112747 T 20070719; ES 07112747 T 20070719; PL 07112747 T 20070719