

Title (en)  
FASTENING ELEMENT

Title (de)  
BEFESTIGUNGSELEMENT

Title (fr)  
ÉLÉMENT DE FIXATION

Publication  
**EP 2609340 A1 20130703 (DE)**

Application  
**EP 11748375 A 20110823**

Priority  
• DE 102010039671 A 20100824  
• EP 2011064465 W 20110823

Abstract (en)  
[origin: CA2808394A1] The invention relates to a fastening element, which can be designed as a blind rivet or a screw and is intended to be driven into a non-perforated workpiece. In the front region intended to be driven into the workpiece, said element contains a punching section (9) which is cylindrical and has a front end face (5) that runs obliquely to the longitudinal axis. The punching section (9) can have a smaller diameter than the body (1) of the fastening element or can have the same diameter. The intersection of the end face (5) with the outside of the punching section (9) forms a punching edge. Owing to the oblique course of the end face, said punching edge is arranged in such a manner that the punching edge first strikes the sheet metal at one point or also two points when the fastening element is driven in, and the opening in the sheet metal is enlarged at a point extending around the circumference by shearing off of the sheet metal.

IPC 8 full level  
**F16B 19/08** (2006.01); **F16B 25/00** (2006.01); **F16B 25/10** (2006.01)

CPC (source: EP KR US)  
**F16B 15/00** (2013.01 - US); **F16B 19/08** (2013.01 - KR); **F16B 19/086** (2013.01 - EP US); **F16B 25/00** (2013.01 - KR);  
**F16B 25/0084** (2013.01 - EP US); **F16B 25/10** (2013.01 - KR); **F16B 25/106** (2013.01 - EP US); **F16B 35/005** (2013.01 - US)

Citation (search report)  
See references of WO 2012025523A1

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

**DE 102010039671 A1 20120301;** AU 2011295100 A1 20130321; BR 112013004272 A2 20160802; CA 2808394 A1 20120301;  
CN 103201526 A 20130710; EP 2609340 A1 20130703; JP 2013539527 A 20131024; KR 20130057463 A 20130531;  
MX 2013002064 A 20130318; RU 2013108738 A 20140927; US 2013142590 A1 20130606; WO 2012025523 A1 20120301

DOCDB simple family (application)

**DE 102010039671 A 20100824;** AU 2011295100 A 20110823; BR 112013004272 A 20110823; CA 2808394 A 20110823;  
CN 201180040954 A 20110823; EP 11748375 A 20110823; EP 2011064465 W 20110823; JP 2013525286 A 20110823;  
KR 20137004597 A 20110823; MX 2013002064 A 20110823; RU 2013108738 A 20110823; US 201113817078 A 20110823