

Title (en)  
Invisible beam connector

Title (de)  
Unsichtbarer Balkenverbinder

Title (fr)  
Raccord de poutre invisible

Publication  
**EP 1643045 A3 20061122 (DE)**

Application  
**EP 05019821 A 20050913**

Priority  
DE 102004048034 A 20040929

Abstract (en)  
[origin: EP1643045A2] The connecting plate comprises a lower part (5) with a flat rear side, and two undercuts on its front side which face away from each other. The plate has an upper part with a flat rear side with two undercuts which face each other which form a tongue-and-groove connection with the undercuts of the lower part. The under part and the upper part of made of sheet metal, and the undercuts are formed by bending and stamping.

IPC 8 full level  
**E04B 1/26** (2006.01); **E04B 1/58** (2006.01)

CPC (source: EP)  
**E04B 1/2604** (2013.01); **E04B 1/58** (2013.01)

Citation (search report)

- [X] GB 472391 A 19370923 - BERNARD JAMES GIBBS
- [A] DE 4313895 A1 19941103 - REINHARD TWEER GMBH [DE]
- [A] DE 20103856 U1 20010621 - BMF HOLZVERBINDER GMBH [DE]

Cited by  
DE102016225444A1; DE102007043562A1

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 NL PL PT RO SE SI SK TR

Designated extension state (EPC)  
AL BA HR MK YU

DOCDB simple family (publication)  
**EP 1643045 A2 20060405; EP 1643045 A3 20061122; EP 1643045 B1 20090902**; AT E441762 T1 20090915; DE 102004048034 A1 20060330; DE 502005008035 D1 20091015; ES 2331917 T3 20100120

DOCDB simple family (application)  
**EP 05019821 A 20050913**; AT 05019821 T 20050913; DE 102004048034 A 20040929; DE 502005008035 T 20050913; ES 05019821 T 20050913