

Title (en)  
BENT MEMBER AND METHOD FOR MANUFACTURING SAME

Title (de)  
GEBOGENES ELEMENT UND VERFAHREN ZU SEINER HERSTELLUNG

Title (fr)  
ÉLÉMENT PLIÉ ET PROCÉDÉ DE FABRICATION CORRESPONDANT

Publication  
**EP 2484461 A1 20120808 (EN)**

Application  
**EP 10820735 A 20100928**

Priority

- JP 2009224515 A 20090929
- JP 2010067312 W 20100928

Abstract (en)  
A curved-part forming method includes a bending process in which blanks 1 and 2 having a curved outline corresponding to a curve of a curved part 30 in a longitudinal direction is bent into a sectional shape corresponding to a division portion of a sectional shape of the curved part, and a joining process in which two (or three of more) portions 10 and 20 obtained by the bending process are joined together. In a conventional forming method, when single high-strength steel sheets are used as materials, forming into desired curved parts cannot be achieved by one-piece press forming; or, when single low-strength steel sheets are used as materials, forming into curved parts can be achieved, but the parts lack strength. Therefore, the parts have insufficient strength, as a result of which weight is increased due to an increase in the number of reinforcing parts.

IPC 8 full level  
**B21D 5/01** (2006.01); **B21D 47/01** (2006.01); **E04C 3/07** (2006.01)

CPC (source: EP KR US)  
**B21C 37/14** (2013.01 - EP US); **B21D 5/01** (2013.01 - KR); **B21D 5/015** (2013.01 - EP US); **B21D 47/01** (2013.01 - EP US); **B21D 51/16** (2013.01 - KR); **E04C 3/07** (2013.01 - EP US); **E04C 2003/0413** (2013.01 - EP US); **E04C 2003/0439** (2013.01 - EP US); **E04C 2003/0465** (2013.01 - EP US); **Y10T 428/12229** (2015.01 - EP US)

Cited by  
WO2017108526A1

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 SE SI SK SM TR

DOCDB simple family (publication)  
**US 2012171506 A1 20120705**; CA 2772925 A1 20110407; CA 2772925 C 20150203; CN 102574192 A 20120711; CN 102574192 B 20150701; EP 2484461 A1 20120808; EP 2484461 A4 20150603; EP 2484461 B1 20180418; JP 2011073010 A 20110414; JP 5515566 B2 20140611; KR 101443990 B1 20140923; KR 20120055616 A 20120531; WO 2011040623 A1 20110407

DOCDB simple family (application)  
**US 201013395477 A 20100928**; CA 2772925 A 20100928; CN 201080043047 A 20100928; EP 10820735 A 20100928; JP 2009224515 A 20090929; JP 2010067312 W 20100928; KR 20127005931 A 20100928