

Title (en)

METHOD OF SHAPING METAL PLATE, AND SHAPED PRODUCT

Title (de)

VERFAHREN ZUR FORMUNG EINER METALLPLATTE UND FORMPRODUKT

Title (fr)

PROCÉDÉ DE MISE EN FORME D'UNE TÔLE ET PRODUIT MIS EN FORME

Publication

EP 3260214 A4 20181114 (EN)

Application

EP 16752596 A 20160219

Priority

- JP 2015031029 A 20150219
- JP 2016054936 W 20160219

Abstract (en)

[origin: EP3260214A1] A method of forming which forms a metal sheet so that it does not break without changing the material of the metal sheet and the forming process, comprising bonding a reinforcement to part of the metal sheet and then forming the metal sheet.

IPC 8 full level

B21D 22/20 (2006.01)

CPC (source: EP KR RU US)

B21D 22/20 (2013.01 - EP KR RU US); **B21D 22/201** (2013.01 - US); **B21D 22/203** (2013.01 - EP US); **B21D 35/007** (2013.01 - KR)

Citation (search report)

- [XY] FR 2921889 A1 20090410 - THYSSENKRUPP SOFEDIT [FR]
- [XY] DE 10135647 C1 20020725 - DAIMLER CHRYSLER AG [DE]
- [XY] US 2002041050 A1 20020411 - JUNG HA-YOUNG [KR], et al
- [XY] JP 2000197969 A 20000718 - SUMITOMO METAL IND
- See also references of WO 2016133210A1

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)

EP 3260214 A1 20171227; EP 3260214 A4 20181114; BR 112017017544 A2 20180417; CA 2976626 A1 20160825; CA 2976626 C 20200121; CN 107427888 A 20171201; CN 107427888 B 20210219; JP 6477860 B2 20190306; JP WO2016133210 A1 20171207; KR 102017970 B1 20190903; KR 20170103938 A 20170913; MX 2017010644 A 20171123; MY 189189 A 20220131; RU 2017132459 A 20190320; RU 2017132459 A3 20190320; RU 2682736 C2 20190321; TW 201703896 A 20170201; TW 201808486 A 20180316; TW I640373 B 20181111; US 2018021835 A1 20180125; WO 2016133210 A1 20160825

DOCDB simple family (application)

EP 16752596 A 20160219; BR 112017017544 A 20160219; CA 2976626 A 20160219; CN 201680010744 A 20160219; JP 2016054936 W 20160219; JP 2017500765 A 20160219; KR 20177022511 A 20160219; MX 2017010644 A 20160219; MY PI2017702977 A 20160219; RU 2017132459 A 20160219; TW 105104949 A 20160219; TW 106142772 A 20160219; US 201615551761 A 20160219