

Title (en)

METHOD FOR BONDING METAL POWDER INJECTION MOLDED BODIES

Title (de)

VERFAHREN ZUM VERBINDEN VON METALLPULVER-SPRITZGUSSKÖRPERN

Title (fr)

PROCÉDÉ PERMETTANT DE LIER DES CORPS MOULÉS PAR INJECTION DE POUDRES MÉTALLIQUES

Publication

EP 3059033 A4 20170621 (EN)

Application

EP 14854623 A 20140917

Priority

- JP 2013214346 A 20131015
- JP 2014074514 W 20140917

Abstract (en)

[origin: EP3059033A1] In a method for jointing metal injection molded parts, [1] at least two metal injection molded parts each of which is injection-molded from mixtures of metal powders and binders are contacted with each other, [2] paste agents containing nitrogen or chlorine are pasted on a jointed portion at which the at least two metal injection molded parts are contacted with each other, and [3] the at least two metal injection molded parts are jointed at the jointed portion by degreasing or sintering, and thereby a metal product is manufactured. According to the jointing method, jointing strength of the jointed portion can be improved.

IPC 8 full level

B22F 7/06 (2006.01); **B22F 3/22** (2006.01); **F01D 9/04** (2006.01); **F04D 29/02** (2006.01); **F04D 29/54** (2006.01); **F01D 5/34** (2006.01)

CPC (source: EP KR US)

B22F 3/225 (2013.01 - EP KR US); **B22F 5/04** (2013.01 - US); **B22F 7/062** (2013.01 - EP KR US); **B22F 7/064** (2013.01 - US); **F01D 9/044** (2013.01 - EP KR US); **F04D 29/023** (2013.01 - EP KR US); **F04D 29/542** (2013.01 - EP US); **F01D 5/34** (2013.01 - EP US); **F05D 2230/22** (2013.01 - EP KR US); **F05D 2230/237** (2013.01 - EP KR US)

Citation (search report)

- [XYI] DE 102011082484 A1 20130314 - BOSCH GMBH ROBERT [DE]
- [Y] DE 10331599 A1 20050203 - MTU AERO ENGINES GMBH [DE]
- See references of WO 2015056513A1

Cited by

FR3066933A1; FR3066936A1; WO2018220213A1

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 3059033 A1 20160824; **EP 3059033 A4 20170621**; CA 2926768 A1 20150423; CA 2926768 C 20181023; CN 105612015 A 20160525; CN 105612015 B 20190412; JP 6245268 B2 20171213; JP WO2015056513 A1 20170309; KR 20160098182 A 20160818; TW 201524640 A 20150701; TW I511815 B 20151211; US 2016221081 A1 20160804; WO 2015056513 A1 20150423

DOCDB simple family (application)

EP 14854623 A 20140917; CA 2926768 A 20140917; CN 201480056174 A 20140917; JP 2014074514 W 20140917; JP 2015542549 A 20140917; KR 20167012218 A 20140917; TW 103134399 A 20141002; US 201615093246 A 20160407