

Title (en)  
SAND SHELL-MOULDING METHOD FOR THE PRODUCTION OF A PART FOR USE IN THE AUTOMOTIVE AND AERONAUTICS FIELDS

Title (de)  
SANDSCHALENFORMVERFAHREN ZUR HERSTELLUNG EINES BAUTEILS ZUR VERWENDUNG IM AUTOMOBIL- UND RAUMFAHRTSEKTOR

Title (fr)  
PROCEDE DE MOULAGE EN CARAPACE SABLE POUR LA REALISATION D'UNE PIECE DANS LE DOMAINE DE L'AUTOMOBILE ET DE L'AERONAUTIQUE

Publication  
**EP 3277451 A1 20180207 (FR)**

Application  
**EP 16712064 A 20160316**

Priority  
• FR 1552788 A 20150401  
• FR 2016050579 W 20160316

Abstract (en)  
[origin: WO2016156692A1] The invention relates to a sand shell-moulding method for the production of a part for use in the automotive and aeronautics fields, in which: a metal or alloy is poured into the shell mould in order to produce a part; the shell is cooled forcibly and rapidly; and the part is removed.

IPC 8 full level  
**B22D 27/04** (2006.01); **B21J 5/00** (2006.01)

CPC (source: CN EP KR US)  
**B21J 5/002** (2013.01 - EP KR US); **B22C 9/02** (2013.01 - CN); **B22D 27/04** (2013.01 - CN EP KR US)

Citation (search report)  
See references of WO 2016156692A1

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

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**WO 2016156692 A1 20161006**; CA 2981374 A1 20161006; CN 107427906 A 20171201; EP 3277451 A1 20180207; FR 3034332 A1 20161007;  
JP 2018516761 A 20180628; KR 20170132771 A 20171204; MA 41836 A 20180206; MX 2017012495 A 20180706; US 2018369906 A1 20181227

DOCDB simple family (application)  
**FR 2016050579 W 20160316**; CA 2981374 A 20160316; CN 201680019693 A 20160316; EP 16712064 A 20160316;  
FR 1552788 A 20150401; JP 2018502335 A 20160316; KR 20177027455 A 20160316; MA 41836 A 20160315; MX 2017012495 A 20160316;  
US 201615563023 A 20160316