

Title (en)

METHOD AND DEVICE FOR KEEPING LIQUID METALS WARM

Title (de)

VERFAHREN UND VORRICHTUNG ZUM WARMHALTEN FLÜSSIGER METALLE

Title (fr)

PROCÉDÉ ET DISPOSITIF DESTINÉS À CONSERVER AU CHAUD DES MÉTAUX LIQUIDES

Publication

EP 3228403 A3 20171115 (DE)

Application

EP 17162249 A 20170322

Priority

DE 102016003728 A 20160324

IPC 8 full level

B22D 41/015 (2006.01)

CPC (source: EP)

B22D 41/01 (2013.01); **B22D 41/015** (2013.01)

Citation (search report)

- [XDA] EP 0217094 A1 19870408 - LINDE AG [DE]
- [A] EP 1078704 A1 20010228 - KAWASAKI STEEL CO [JP]
- [AD] DE 102007022684 A1 20071129 - SMS DEMAG AG [DE]
- [AD] WO 2006133679 A2 20061221 - KARL KONZELMANN METALLSCHMELZW [DE], et al
- [A] JP 5832332 B2 20151216
- [A] JP 3485826 B2 20040113
- [A] JP H02290663 A 19901130 - TOHO GAS KK

Cited by

CN111604493A

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)

EP 3228403 A2 20171011; EP 3228403 A3 20171115; EP 3228403 B1 20200603; DE 102016003728 A1 20170928; ES 2797928 T3 20201204; HR P20201180 T1 20201113; HU E050839 T2 20210128; LT 3228403 T 20200825; PL 3228403 T3 20201214; RS 60444 B1 20200731; SI 3228403 T1 20200831

DOCDB simple family (application)

EP 17162249 A 20170322; DE 102016003728 A 20160324; ES 17162249 T 20170322; HR P20201180 T 20200729; HU E17162249 A 20170322; LT 17162249 T 20170322; PL 17162249 T 20170322; RS P20200777 A 20170322; SI 201730316 T 20170322