

Title (en)  
FOUNDRY SAND BINDER SUPPLY DEVICE AND BINDER SUPPLY METHOD

Title (de)  
VORRICHTUNG ZUR ZUFÜHRUNG EINES GIESSSANDBINDEMITELS UND BINDEMITE LZUFÜHRVERFAHREN

Title (fr)  
DISPOSITIF D'ALIMENTATION EN LIANT DE SABLE DE FONDERIE ET PROCÉDÉ D'ALIMENTATION EN LIANT

Publication  
**EP 3597326 A4 20201111 (EN)**

Application  
**EP 17900841 A 20171228**

Priority  
• JP 2017052005 A 20170317  
• JP 2017047210 W 20171228

Abstract (en)  
[origin: EP3597326A1] Disclosed is a binder supply apparatus for supplying a liquid binder to foundry sand. The binder supply apparatus comprises: a reservoir tank for reserving the binder therein; a first pump for supplying the binder to the reservoir tank; a temperature adjusting device for adjusting the temperature of the binder in the reservoir tank to a given temperature; a second pump for circulating the binder such that the binder is discharged from the reservoir tank to a circulation passage and then re-supplied to the reservoir tank; a flowmeter for measuring the flow rate of the binder flowing through the circulation passage; and a binder ejection port for ejecting the binder.

IPC 8 full level  
**B22C 5/18** (2006.01); **B22D 45/00** (2006.01)

CPC (source: EP US)  
**B22C 5/18** (2013.01 - EP US); **B22D 45/00** (2013.01 - EP US)

Citation (search report)  
• [AD] JP H08976 A 19960109 - SINTOKOGIO LTD  
• [A] WO 03078934 A1 20030925 - MITSUI MINING & SMELTING CO [JP], et al  
• [A] WO 2007064839 A2 20070607 - NEW IDEAS ENGINEERING LLC [US], et al  
• [A] CN 106311971 A 20170111 - KOCEL MACHINERY CO LTD  
• See references of WO 2018168164A1

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 3597326 A1 20200122; EP 3597326 A4 20201111**; BR 112019010806 A2 20191001; CN 110191772 A 20190830;  
JP WO2018168164 A1 20200116; MX 2019007201 A 20190905; US 2020078855 A1 20200312; WO 2018168164 A1 20180920

DOCDB simple family (application)  
**EP 17900841 A 20171228**; BR 112019010806 A 20171228; CN 201780082964 A 20171228; JP 2017047210 W 20171228;  
JP 2019505723 A 20171228; MX 2019007201 A 20171228; US 201716493202 A 20171228