

Title (en)  
MOLD FORMING MACHINE

Title (de)  
MASCHINE ZUR HERSTELLUNG EINER FORM

Title (fr)  
MACHINE À FORMER DES MOULAGES

Publication  
**EP 3357604 A1 20180808 (EN)**

Application  
**EP 16889863 A 20160627**

Priority  
• JP 2016023787 A 20160210  
• JP 2016086360 A 20160422  
• JP 2016069051 W 20160627

Abstract (en)  
A molding machine forms a mold by using a transferred molding flask and pattern plate, and includes: a filling frame provided with a lower opening connectable to an upper opening of the molding flask and a side portion opened; a squeeze head mechanism including a squeeze board movable into and out from the filling frame, and a plurality of squeeze feet passing through the squeeze board, being able to move up and down with respect to the squeeze board; a sand injection hopper including at least one sand injection port for injecting molding sand into a molding space defined by the molding flask, the filling frame, the squeeze head mechanism, and the pattern plate; and a sand injection nozzle provided in a component detachably attached to an opening of the side portion of the filling frame to enable the sand injection port and the molding space to communicate with each other.

IPC 8 full level  
**B22C 15/28** (2006.01); **B22C 11/00** (2006.01)

CPC (source: EP KR US)  
**B22C 11/00** (2013.01 - EP KR US); **B22C 15/08** (2013.01 - EP US); **B22C 15/28** (2013.01 - EP KR US); **B22C 21/00** (2013.01 - EP US)

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 3357604 A1 20180808**; **EP 3357604 A4 20190313**; **EP 3357604 B1 20210526**; BR 112018007749 A2 20181023;  
BR 112018007749 B1 20211026; CN 108290209 A 20180717; CN 108290209 B 20200828; JP 6601509 B2 20191106;  
JP WO2017138162 A1 20181025; KR 20180109857 A 20181008; MX 2018009706 A 20190124; TW 201728387 A 20170816;  
TW I682818 B 20200121; US 2018345358 A1 20181206; WO 2017138162 A1 20170817

DOCDB simple family (application)  
**EP 16889863 A 20160627**; BR 112018007749 A 20160627; CN 201680068269 A 20160627; JP 2016069051 W 20160627;  
JP 2017566497 A 20160627; KR 20187017059 A 20160627; MX 2018009706 A 20160627; TW 105122935 A 20160720;  
US 201816059505 A 20180809