

Title (en)
Molding machine and molding method

Title (de)
Formgerät und Formverfahren

Title (fr)
Machine de moulage et procédé de moulage

Publication
EP 1952912 A1 20080806 (EN)

Application
EP 07013122 A 20070704

Priority
JP 2007005585 A 20070115

Abstract (en)
Disclosed is a molding method for separating a cope flask and a drag flask from a match plate at the same time. The method comprises the steps of: holding the match plate between the cope and drag flasks; inserting an upper squeeze member and a lower squeeze member into openings of the cope and drag flasks, which are opposed to the match plate, to define an upper molding space and a lower molding space, respectively; filling the defined molding space with molding sand; and driving the upper and lower squeeze members toward the match plate to squeeze the molding sand within the upper and lower molding space to mold an upper mold and a lower mold at the same time. The cope and drag flasks that are included within said molded upper and lower molds are forcibly pushed away from the match plate at the same time when the flasks are stationary.

IPC 8 full level
B22C 11/00 (2006.01); **B22C 15/08** (2006.01)

CPC (source: EP KR US)
B22C 9/02 (2013.01 - KR); **B22C 11/00** (2013.01 - EP KR US); **B22C 15/08** (2013.01 - EP KR US); **B22C 21/02** (2013.01 - KR)

Citation (search report)

- [X] US 3744549 A 19730710 - BUHLER E
- [A] US 3630268 A 19711228 - HATCH EDMOND K
- [A] EP 0468355 A2 19920129 - SINTOKOGIO LTD [JP]
- [A] EP 1726382 A1 20061129 - SINTOKOGIO LTD [JP]
- [AD] EP 1695776 A1 20060830 - SINTOKOGIO LTD [JP]
- [A] WO 0050187 A1 20000831 - GEORG FISCHER DISA AS [DK], et al
- [A] US 3878881 A 19750422 - LUND ROBERT S, et al

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA HR MK RS

DOCDB simple family (publication)
EP 1952912 A1 20080806; **EP 1952912 B1 20190306**; BR PI0720981 A2 20140318; CN 101578146 A 20091111; JP 2010515574 A 20100513; JP 5027879 B2 20120919; KR 101392355 B1 20140508; KR 20090101466 A 20090928; MX 2009007561 A 20090722; TR 201904582 T4 20190521; US 2008169075 A1 20080717; WO 2008087759 A1 20080724

DOCDB simple family (application)
EP 07013122 A 20070704; BR PI0720981 A 20070711; CN 200780049779 A 20070711; JP 2007064125 W 20070711; JP 2009525815 A 20070711; KR 20097015170 A 20070711; MX 2009007561 A 20070711; TR 201904582 T 20070704; US 82257807 A 20070709