

Title (en)
METHOD AND DEVICE FOR COLLAPSING AND SEPARATING MOLD MATERIAL AND MOLD GREEN SAND FROM GREEN SAND MOLD

Title (de)
VERFAHREN UND VORRICHTUNG ZUM ZERFALLEN UND SEPARIEREN VON KOKILLENMATERIAL UND NASSAND VON DER NASSANDKOKILLE

Title (fr)
PROCEDE ET DISPOSITIF PERMETTANT L'AFFAISSEMENT ET LA SEPARATION DU MATERIAU DE MOULAGE ET DU SABLE VERT DU MOULE EN SABLE VERT

Publication
EP 1205270 A4 20041117 (EN)

Application
EP 01901530 A 20010124

Priority

- JP 0100444 W 20010124
- JP 2000019753 A 20000128
- JP 2000019772 A 20000128
- JP 2000087847 A 20000328
- JP 2000104378 A 20000406
- JP 2000114247 A 20000414

Abstract (en)
[origin: EP1205270A1] A method and apparatus for collecting molding greensand for greensand molds into which molten metal has been cast, wherein the molding greensand that has not been affected by heat and the molding greensand that is attached to the molding material that has been affected by the heat of molten metal can be separately collected by collapsing the greensand molds into which molten metal has been cast. The method and apparatus for collecting molding greensand, comprising airtightly surrounding greensand molds into which molten metal has been cast and which is carried in at a place where the molds are collapsed, depressurizing/collapsing the airtightly surrounded greensand molds so as to separate molding material to which the molding greensand that has been affected by heat is attached from the molding sand that has not been affected by heat, vibrating the molding material at a place different from the place where the mold is collapsed so as to separate the molding greensand that has been affected by heat from the molding material, and separately collecting the molding greensand that has been affected by heat and that that has not. <IMAGE>

IPC 1-7
B22D 29/00; **B22D 29/04**; **B22C 5/00**; **B22C 5/18**

IPC 8 full level
B22C 5/00 (2006.01); **B22C 5/08** (2006.01); **B22D 11/04** (2006.01); **B22D 29/00** (2006.01)

CPC (source: EP KR)
B22C 5/00 (2013.01 - EP); **B22C 5/085** (2013.01 - EP); **B22D 11/0405** (2013.01 - EP); **B22D 29/00** (2013.01 - EP KR)

Citation (search report)

- [X] US 4620586 A 19861104 - MUSSCHOOT ALBERT [US]
- [Y] US 5103578 A 19920414 - RICKARD ROBERT S [US]
- [A] DE 2405113 A1 19750807 - KLEIN ALB KG
- [A] US 5167270 A 19921201 - HENYCH IVO [CH]
- [A] US 4620582 A 19861104 - MUELLER-SPAETH GERHARD [DE]
- [A] US 5163496 A 19921117 - JACOB HERMANN [DE]
- [A] US 4334574 A 19820615 - RENNIE ANDREW L, et al
- [A] US 4700766 A 19871020 - GODDERIDGE VOLKER [AT]
- [A] PATENT ABSTRACTS OF JAPAN vol. 0131, no. 54 (M - 814) 14 April 1989 (1989-04-14)
- [A] PATENT ABSTRACTS OF JAPAN vol. 0090, no. 87 (M - 372) 17 April 1985 (1985-04-17)
- See references of WO 0154845A1

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)
EP 1205270 A1 20020515; **EP 1205270 A4 20041117**; BR 0104248 A 20020108; CN 1362901 A 20020807; KR 20010113871 A 20011228; WO 0154845 A1 20010802

DOCDB simple family (application)
EP 01901530 A 20010124; BR 0104248 A 20010124; CN 01800143 A 20010124; JP 0100444 W 20010124; KR 20017012446 A 20010928