

Title (en)

Method and apparatus for reclaiming casting sand

Title (de)

Verfahren und Vorrichtung zur Wiederaufbereitung von Giessereisand

Title (fr)

Procédé et appareil pour la récupération de sable de fonderie

Publication

EP 1025926 A3 20000823 (EN)

Application

EP 00102650 A 20000208

Priority

- JP 2947099 A 19990208
- JP 33906899 A 19991130

Abstract (en)

[origin: EP1025926A2] A method of reclaiming casting sand comprises the steps of throwing casting sand into a processing tank (1) and reclaiming the casting sand while air pressure in the processing tank (1) is kept lower than air pressure outside the processing tank, and discharging the reclaimed casting sand from the processing tank while the internal air pressure is kept higher than the external air pressure. An apparatus for reclaiming and cooling casting sand, comprising means (p) for fluidizing casting sand, means disposed above the fluidizing means for cooling the fluidized casting sand, means disposed above the cooling means for scaling (2) bonds from particles of the casting sand by friction, and means disposed above the cooling means for having relatively large dust particles sedimented is characterized by the bond-scaling means, being configured such that the reclaimed casting sand can be discharged into the fluidizing means therethrough.

IPC 1-7

B22C 5/02; **B22C 5/08**; **B22C 5/10**

IPC 8 full level

B22C 5/00 (2006.01); **B22C 5/02** (2006.01); **B22C 5/08** (2006.01); **B22C 5/10** (2006.01)

CPC (source: EP KR)

B22C 5/00 (2013.01 - KR); **B22C 5/02** (2013.01 - EP); **B22C 5/08** (2013.01 - EP); **B22C 5/10** (2013.01 - EP)

Citation (search report)

- [XY] US 4436138 A 19840313 - KONDO TOSHIO [JP]
- [XY] EP 0687514 A1 19951220 - FISCHER GEORG GIESSEREIANLAGEN [CH]
- [Y] WO 9320964 A1 19931028 - BOENISCH DIETMAR [DE]

Cited by

CN108097868A; US2015183025A1; US10052681B2

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

EP 1025926 A2 20000809; **EP 1025926 A3 20000823**; **EP 1025926 B1 20040519**; CN 1264630 A 20000830; DE 60010775 D1 20040624; DE 60010775 T2 20040923; KR 20000057955 A 20000925; TW 462901 B 20011111

DOCDB simple family (application)

EP 00102650 A 20000208; CN 00102209 A 20000204; DE 60010775 T 20000208; KR 20000005754 A 20000208; TW 89101570 A 20000129