

Title (en)

Process and apparatus for reclaiming sand

Title (de)

Verfahren und Vorrichtung zur Regenerierung von Giessereialsand

Title (fr)

Procédé et installation pour régénérer les sables de moulage

Publication

EP 0687514 B1 19991117 (DE)

Application

EP 95105892 A 19950420

Priority

CH 188594 A 19940615

Abstract (en)

[origin: EP0687514A1] Regeneration of used foundry sand with synthetic resin and/or thermally affected bentonite bond material, comprises mechanically separating the latter from the granular base material. Used sand is fed into the vessel (9). The rotating receiver vessel (7) produces rubbing between sand grains belonging respectively to the stationary and rotating sand masses in the vessels (9, 7). Sand is conveyed through at least one gap (16) bounded by elements intensifying the rubbing process, by centrifugal forces. Bond shells are electrically unloaded by means of the guide elements (6). Dust is continuously sucked away, while regenerated sand returns to the foundry sand circulation system. <IMAGE>

IPC 1-7

B22C 5/02; **B22C 5/18**; **B02C 23/00**

IPC 8 full level

B02C 17/08 (2006.01); **B22C 1/00** (2006.01); **B22C 5/02** (2006.01); **B22C 5/18** (2006.01)

CPC (source: EP US)

B22C 5/02 (2013.01 - EP US); **B22C 5/18** (2013.01 - EP US); **Y10S 241/10** (2013.01 - EP US)

Cited by

EP1025926A3; CN107597386A; CN105921690A; CN105945217A; CN106001401A; CN106001400A; CN106040969A

Designated contracting state (EPC)

BE CH DE DK ES FR GB IT LI NL

DOCDB simple family (publication)

EP 0687514 A1 19951220; **EP 0687514 B1 19991117**; BR 9502794 A 19960206; CH 686411 A5 19960329; CZ 82795 A3 19960117; DE 59507231 D1 19991223; HU 215811 B 19990201; HU 9501737 D0 19950828; HU T76771 A 19971128; US 5706879 A 19980113

DOCDB simple family (application)

EP 95105892 A 19950420; BR 9502794 A 19950614; CH 188594 A 19940615; CZ 82795 A 19950331; DE 59507231 T 19950420; HU 9501737 A 19950614; US 43112095 A 19950428