

Title (en)

DEVICE FOR THE DRY REGENERATION OF USED FOUNDRY SAND

Title (de)

ANORDNUNG ZUM TROCKENEN REGENERIEREN VON GIESSEREI-ALTSANDEN

Title (fr)

DISPOSITIF POUR LA REGENERATION PAR VOIE SECHE DE VIEUX SABLES DE FONDERIE

Publication

**EP 0552354 B1 19970102 (DE)**

Application

**EP 92917813 A 19920813**

Priority

- DE 4126976 A 19910814
- EP 9201858 W 19920813

Abstract (en)

[origin: US5421462A] PCT No. PCT/EP92/01858 Sec. 371 Date Jul. 12, 1993 Sec. 102(e) Date Jul. 12, 1993 PCT Filed Aug. 13, 1992 PCT Pub. No. WO93/03872 PCT Pub. Date Mar. 4, 1993. An arrangement for the dry reconditioning of used foundry sands in which used sand is fluidized with air or an air/gas mixture and flung against a precipitator to separate and remove substances covering sand particles. The precipitator has several planar baffle elements arranged in concentric circles around a conical deflector. A jet of used sand/air directed toward the deflector expands radially outwardly toward the baffle elements so that the jet is decelerated several times by the deflector and the baffle elements and, in a confined space, split into individual streams and swirled to provide heavy mechanical friction between sand particles and between sand particles and the baffle elements.

IPC 1-7

**B22C 5/18**

IPC 8 full level

**B22C 5/00** (2006.01); **B22C 5/10** (2006.01); **B22C 5/18** (2006.01)

CPC (source: EP US)

**B22C 5/10** (2013.01 - EP US)

Designated contracting state (EPC)

AT CH DE DK ES FR GB IT LI NL SE

DOCDB simple family (publication)

**US 5421462 A 19950606**; AT E146995 T1 19970115; DE 4126976 C1 19930107; DE 59207811 D1 19970213; EP 0552354 A1 19930728; EP 0552354 B1 19970102; JP H06503997 A 19940512; WO 9303872 A1 19930304

DOCDB simple family (application)

**US 3930893 A 19930712**; AT 92917813 T 19920813; DE 4126976 A 19910814; DE 59207811 T 19920813; EP 9201858 W 19920813; EP 92917813 A 19920813; JP 50409793 A 19920813