

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

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Application

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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.

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