

Title (en)

Method and apparatus for the treatment of solid combustion residues from a combustion plant, in particular from an incinerator

Title (de)

Verfahren und Vorrichtung zur Behandlung von festen Verbrennungsrückständen einer Verbrennungsanlage, insbesondere einer Abfallverbrennungsanlage

Title (fr)

Procédé et appareil pour le traitement de résidus solides de combustion d'une installation de combustion, notamment d'un incinérateur

Publication

EP 0740110 A3 19980311 (DE)

Application

EP 96100180 A 19960108

Priority

DE 19508488 A 19950309

Abstract (en)

[origin: US5711233A] The arrangement for treating combustion residues of a combustion installation comprises an ash discharger into which opens a fall shaft, into which the solid combustion residues fall from a furnace grate. The ash is conveyed from the ash discharger into the discharge shaft via a diagonally ascending push-out chute by a push-out ram whose operating rate is so adjusted that the ash is piled up in the fall shaft in a tower formation reaching above the liquid level. Fresh water or a chemical is introduced into the discharge shaft via an inlet. The ash discharger water present in the ash discharger and charged with fine particles is drained into a hermetically sealed settling tank via a draw-off duct. Ash discharger water, with which a chemical can be mixed via another line, is fed from the upper region of the settling tank by a pump via a return line to spray nozzles which are arranged in the upper region of the fall shaft. Ash discharger water which is enriched with solids particles is drawn off from the bottom of the settling tank via another pump which is arranged in an outlet line proceeding from the settling tank. This is effected at a rate such that solids particles having a diameter of up to 2 mm are carried away with the ash discharger water which is drawn off through the draw-off duct.

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IPC 8 full level

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CPC (source: EP US)

F23J 1/02 (2013.01 - EP US); **F23J 2900/01021** (2013.01 - EP US)

Citation (search report)

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Designated contracting state (EPC)

AT BE CH DE DK ES FR GB IT LI LU NL SE

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US 5711233 A 19980127; AT E202627 T1 20010715; CA 2171245 A1 19960910; CA 2171245 C 19991221; DE 19508488 A1 19960919; DE 19508488 C2 19970507; DE 19508488 C3 20010315; DE 59607150 D1 20010802; DK 0740110 T3 20011015; EP 0740110 A2 19961030; EP 0740110 A3 19980311; EP 0740110 B1 20010627; ES 2160183 T3 20011101; JP 2931551 B2 19990809; JP H08261438 A 19961011; RU 2103605 C1 19980127; SG 42351 A1 19970815; TW 289790 B 19961101

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US 61275896 A 19960308; AT 96100180 T 19960108; CA 2171245 A 19960307; DE 19508488 A 19950309; DE 59607150 T 19960108; DK 96100180 T 19960108; EP 96100180 A 19960108; ES 96100180 T 19960108; JP 5042296 A 19960307; RU 96104357 A 19960306; SG 1996006130 A 19960308; TW 84114203 A 19951230