Title (en)

PROCESS FOR MELTING DOWN COMBUSTION RESIDUES IN SLAG

Title (de)

VERFAHREN ZUM EINSCHMELZEN VON VERBRENNUNGSRÜCKSTÄNDEN IN SCHLACKE

Title (fr)

PROCEDE DE FUSION DE RESIDUS DE COMBUSTION DANS DES SCORIES

Publication

EP 0581918 B1 19981111 (DE)

Application

EP 93902029 A 19930211

Priority

- CH 59192 A 19920226
- CH 9300035 W 19930211

Abstract (en)

[origin: WO9317280A1] Instead of burning rubbish completely up, which has long been the aim, the material to be processed is first merely carbonised in a low temperature unit (2) and then, with the addition of carbonising agents or gases, taken to a high temperature unit (7) to reach the temperature needed to melt the slag and achieve complete combustion. It is thus possible that foreign substances (heavy metals) are absorbed in the slag and bind permanently therein. Concerning the equipment, the original, conventional combustion region is replaced by a generator for combustible carbonising gases so that, instead of being burned, the material introduced is merely gasified. Gasification or carbonisation may be controlled in any manner. The residues from the carbonisation process contain more combustion energy than the ordinary burned residues and may be subjected to a slag liquefaction process in the high temperature unit; a rotary kiln is proposed there. The end product is a completely burned, liquefied slag which may be allowed to set in any shape.

IPC 1-7

F23G 5/027

IPC 8 full level

F23G 5/00 (2006.01); **F23G 5/027** (2006.01); **F23G 7/00** (2006.01)

CPC (source: EP)

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Cited by

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