

Title (en)

Method and apparatus for destroying sodium-containing waste products.

Title (de)

Verfahren und Vorrichtung zur Vernichtung von Natrium enthaltenden Abfällen.

Title (fr)

Procédé et dispositif pour détruire des déchets contenant du sodium.

Publication

EP 0581546 A1 19940202 (EN)

Application

EP 93305848 A 19930723

Priority

- CA 2108421 A 19931014
- US 92272492 A 19920731

Abstract (en)

Waste materials including organic and inorganic by-products and combined sodium in the amount of at least about 0.1%, and most often at least about 5%, by weight are destroyed by combustion at a temperature above about 700 DEG C in a vessel lined with a refractory comprising at least about 85% by weight combined aluminum calculated as aluminum oxide. The refractory may be of sintered or fused-cast construction; if the former, it also comprises an aluminosilicate binder, preferably mullite, and contains at least about 6.5% combined silicon calculated as silicon dioxide. Such refractories have improved resistance to the corrosive effects of the sodium in the waste stream.

IPC 1-7

F23G 5/48; **F23M 5/00**; **F23G 7/00**

IPC 8 full level

B09B 3/00 (2006.01); **F23G 5/48** (2006.01); **F23G 7/00** (2006.01); **F23M 5/00** (2006.01)

CPC (source: EP)

F23G 5/48 (2013.01); **F23G 7/008** (2013.01); **F23M 5/00** (2013.01)

Citation (search report)

- [XY] US 4237103 A 19801202 - PRIBLE GLEN V
- [Y] DE 3004186 A1 19800821 - NITTETSU KAKOKI KK
- [Y] FR 2219910 A1 19740927 - SPEICHIM EQUIP IND CHIMIQ [FR]
- [Y] GB 2020403 A 19791114 - HEENAN ENVIRONMENTAL SYSTEMS
- [A] US 3712796 A 19730123 - SANSOM W, et al
- [AP] DE 4128963 A1 19930304 - OTTO FEUERFEST GMBH [DE]
- [YA] CROWLEY: "Know causes of, solutions to CFB-boiler refractory problems", POWER, vol. 136, no. 1, January 1992 (1992-01-01), NEW YORK US, pages 54 - 57, XP000243659

Designated contracting state (EPC)

DE ES FR GB IT NL

DOCDB simple family (publication)

EP 0581546 A1 19940202; **EP 0581546 B1 19990203**; CA 2108421 A1 19950415; DE 69323359 D1 19990318; DE 69323359 T2 19991007; ES 2127251 T3 19990416; JP 3124871 B2 20010115; JP H06154727 A 19940603

DOCDB simple family (application)

EP 93305848 A 19930723; CA 2108421 A 19931014; DE 69323359 T 19930723; ES 93305848 T 19930723; JP 17715893 A 19930719