

Title (en)

COAL BENEFICIATION AND UTILIZATION PROCESS

Publication

EP 0451265 A4 19920506 (EN)

Application

EP 91900557 A 19901102

Priority

US 43055989 A 19891102

Abstract (en)

[origin: WO9106618A1] A method of beneficiating a particulate carbonaceous material such as coal, including formation of a slurry of the material in an aqueous salt solution. The slurry is separated in a cyclone into a low-density fraction and a high-density fraction with the low-density fraction having particulate carbonaceous material with a lower sulfur content and lower ash content than the particulate carbonaceous material in the high-density fraction. The particulate carbonaceous material with a lower sulfur content and lower ash content is separated from the low-density fraction but a residue of the aqueous salt solution is left thereon. The separated particulate carbonaceous material with a residual portion of the salt is used as a fuel in a process producing carbonaceous gases with at least a portion of the lower sulfur content gettered in solid form by the residual salt or further lowered in a process producing superclean coal. Potassium salts as well as calcium and nickel salts are disclosed.

IPC 1-7

C10L 10/00; **C10L 5/00**

IPC 8 full level

B03B 5/44 (2006.01); **C10L 9/00** (2006.01); **C10L 9/10** (2006.01)

CPC (source: EP)

B03B 5/442 (2013.01); **C10L 9/00** (2013.01); **C10L 9/10** (2013.01)

Citation (search report)

- [X] US 4328006 A 19820504 - MUENGER JAMES R, et al
- [A] EP 0050863 A1 19820505 - HITACHI LTD [JP]
- No further relevant documents have been disclosed.
- See references of WO 9106618A1

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

WO 9106618 A1 19910516; EP 0451265 A1 19911016; EP 0451265 A4 19920506

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