

Title (en)
PROCESS FOR DRYING BROWN COAL WITH A HIGH WATER CONTENT

Publication
EP 0222730 A3 19880302 (DE)

Application
EP 86890287 A 19861023

Priority
AT 326085 A 19851108

Abstract (en)
[origin: US4741837A] For the purpose of increasing the efficiency during drying of brown coals having a high water content and for the purpose of facilitating the purification of process waste water resulting in a drying process according to Fleissner it is proposed to spray hot water onto the raw coal and to separate the proportion in fine grain having a maximum grain size of 5 mm, preferably of 1 mm. In the following, the proportion in fine grain is subjected to an adsorption stage (5), noting that after a reaction time of at least 1 min, preferably of 2 to 5 min, a major portion of the soluble substances burdening the waste water becomes adsorbed on this fine grain. Subsequently, the waste water is further purified after a flocculating step in a flocculating reactor (6) and after a separating step (8) for separating solid matter, for which purpose can be used sand filters (10), adsorbing resins and activated carbon. The separated process water can be used as feed water for a steam production in a combustion plant (13) and be partially used for rinsing the sand filters (10).

IPC 1-7
C10F 5/00

IPC 8 full level
C10F 5/00 (2006.01)

CPC (source: EP US)
C10F 5/00 (2013.01 - EP US)

Citation (search report)

- [YD] US 3395334 A 19680730 - SAMUEL STEIN HERBERT
- [Y] EP 0155927 A2 19850925 - VOEST ALPINE AG [AT]
- [A] WO 8500354 A1 19850131 - DRILLING WASTE INC [US]
- [A] FR 2499544 A1 19820813 - RHONE POULENC SA [FR]

Designated contracting state (EPC)
BE CH DE FR GB GR IT LI LU NL SE

DOCDB simple family (publication)
EP 0222730 A2 19870520; EP 0222730 A3 19880302; AT 388170 B 19890510; AT A326085 A 19881015; AU 6493786 A 19870514; DD 250365 A5 19871008; US 4741837 A 19880503; YU 186286 A 19880630

DOCDB simple family (application)
EP 86890287 A 19861023; AT 326085 A 19851108; AU 6493786 A 19861107; DD 29601086 A 19861106; US 92709586 A 19861105; YU 186286 A 19861103