

Title (en)

METHOD FOR PROCESSING OF BY-PRODUCTS OF THE REFINING OF OILS AND FATS

Publication

EP 0096946 A3 19840815 (EN)

Application

EP 83201189 A 19830216

Priority

NL 8200650 A 19820218

Abstract (en)

[origin: EP0096946A2] To avoid environmental objections in discarding by-products of refining and processing of fatty oils, fats or mineral oils, or other materials, especially those containing alkali metal ions or salts, such by-products are combusted with excess air or oxygen, preferably in a fluidized bed oven, using a bed material having a low silicon content, particularly those consisting mainly of titanium, calcium and/or aluminium oxides, at 600-950 DEG C, preferably 800-850 DEG C. The organic materials in the by-products are thereby converted into products which can be discharged without problems: the exhaust gases contain only low amounts of carbon monoxide and nitrogen oxides. By passing the combustion gases through a heat-exchanger, the heat generated can be used. e.g. to preheat the excess air for the process or to generate steam or heated water, which can be used economically in other parts of the plant. The process is particularly suitable for the combustion of soapstock, the water content of which has been reduced, e.g. by evaporation, if necessary.

IPC 1-7

F23G 7/00; **F23G 5/00**

IPC 8 full level

F23G 5/30 (2006.01); **F23G 5/46** (2006.01); **F23G 7/05** (2006.01)

CPC (source: EP)

F23G 5/30 (2013.01); **F23G 5/46** (2013.01); **F23G 7/05** (2013.01)

Citation (search report)

- [X] FR 2268758 A1 19751121 - DORR OLIVER INC [US]
- [Y] DE 551449 C 19320601 - ARLINGTON H MALLERY
- [Y] FR 2138173 A1 19721229 - HERCULES INC
- [A] EP 0003831 A1 19790905 - BAYER AG [DE]
- [A] FR 2056634 A5 19710514 - COMBUSTION POWER
- [A] CH 473359 A 19690531 - EXXON RESEARCH ENGINEERING CO [US]
- [A] US 4071612 A 19780131 - WEYER HORST, et al
- [A] HÜTTE TASCHENBUCH FÜR EISENHÜTTENLEUTE, 5th edition, 1961, page 545, Verlag von Wilhelm Ernst & Sohn, Berlin, DE.

Cited by

GB2187397A; GR1000870B; WO0023745A1

Designated contracting state (EPC)

AT BE CH DE FR GB IT LI NL SE

DOCDB simple family (publication)

EP 0096946 A2 19831228; **EP 0096946 A3 19840815**; EP 0087195 A2 19830831; EP 0087195 A3 19840516; NL 8200650 A 19830916; ZA 831082 B 19840926

DOCDB simple family (application)

EP 83201189 A 19830216; EP 83200237 A 19830216; NL 8200650 A 19820218; ZA 831082 A 19830217