

Publication

**EP 0581402 A3 19940413**

Application

**EP 93250217 A 19930727**

Priority

DE 4225490 A 19920730

Abstract (en)

[origin: EP0581402A2] A process and an apparatus are proposed for regenerating used oil (old oil) or similar materials, in which the used oil is heated in three reactor stages with the aid of electromagnetic radiation without direct contact with the radiation sources in three temperature ranges. To achieve the targeted supply of radiation and to break up the molecular chains of pollutants, the flowing medium is conducted past the radiation sources a plurality of times. <IMAGE>

IPC 1-7

**C10M 175/00**; C10G 15/08; B01J 19/12; B01J 19/24

IPC 8 full level

**C10M 175/00** (2006.01)

CPC (source: EP)

**C10M 175/00** (2013.01)

Citation (search report)

- [A] GB 191547 A 19230118 - GEN ELECTRIC
- [A] DE 3224114 A1 19831229 - RIVI ETS [LI]
- [A] DE 646502 C 19370616 - AEG
- [A] GB 2101154 A 19830112 - SNAM PROGETTI [IT]
- [A] FR 2354971 A1 19780113 - BBC BROWN BOVERI & CIE [CH]
- [A] US 3431188 A 19690304 - ITO SHOICHI, et al
- [A] DE 1173435 B 19640709 - HOECHST AG

Cited by

DE19639488C2

Designated contracting state (EPC)

AT BE CH DE DK ES FR GB IT LI NL SE

DOCDB simple family (publication)

**EP 0581402 A2 19940202**; **EP 0581402 A3 19940413**; DE 4225490 A1 19940203; HU 9302209 D0 19931129; HU T67432 A 19950428

DOCDB simple family (application)

**EP 93250217 A 19930727**; DE 4225490 A 19920730; HU 9302209 A 19930729