

Title (en)

PROCESS FOR SEPARATING A HYDROPHOBIC LIQUID FROM A LIQUID CONTAMINATED THEREWITH.

Title (de)

VERFAHREN ZUR ABTRENNUNG EINER HYDROPHOBEN FLÜSSIGKEIT AUS EINER DAMIT VERUNREINIGTEN FLÜSSIGKEIT.

Title (fr)

PROCEDE DE SEPARATION D'UN LIQUIDE HYDROPHOBE CONTAMINANT PRESENT DANS UN LIQUIDE.

Publication

**EP 0664769 A4 19951011 (EN)**

Application

**EP 93924292 A 19931004**

Priority

- RU 92000506 A 19921014
- US 9309404 W 19931004

Abstract (en)

[origin: WO9408902A1] Disclosed herein is a process for separating a hydrophobic liquid from a substantially polar medium through the application of expanded graphite particles. Upon contacting the hydrophobic liquid floating agglomerates of expanded graphite and hydrophobic liquid are formed which may easily be removed from the polar liquid by mechanical means. Following the removal of the agglomerates from the polar medium, the hydrophobic liquid may be separated with little effort and recycled. Further, the adsorptive properties of the expanded graphite can be regenerated allowing the material to be used repeatedly. The present invention is particularly useful for removing liquid hydrocarbons from contaminated bodies of water.

IPC 1-7

**C02F 1/28**

IPC 8 full level

**B01D 17/02** (2006.01); **C02F 1/28** (2006.01); **C02F 1/68** (2006.01); **E02B 15/04** (2006.01); **C02F 101/32** (2006.01)

CPC (source: EP)

**B01D 17/0202** (2013.01); **C02F 1/283** (2013.01); **C02F 1/681** (2013.01)

Citation (search report)

- [X] EP 0435766 A2 19910703 - TECHNION RES & DEV FOUNDATION [IL], et al
- [X] DE 2540784 A1 19770317 - BITZER DIETHELM
- [X] DE 2536807 B1 19761216 - BITZER DIETHELM [DE]
- [XA] DATABASE WPI Section Ch Week 9210, Derwent World Patents Index; Class D15, AN 92-076964
- [X] PATENT ABSTRACTS OF JAPAN vol. 5, no. 164 (C - 076) 21 October 1981 (1981-10-21)
- [X] DATABASE WPI Section Ch Week 9320, Derwent World Patents Index; Class D15, AN 93-163711
- See references of WO 9408902A1

Designated contracting state (EPC)

AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

**WO 9408902 A1 19940428**; AU 5403194 A 19940509; CA 2147143 A1 19940428; EP 0664769 A1 19950802; EP 0664769 A4 19951011; RU 2050329 C1 19951220

DOCDB simple family (application)

**US 9309404 W 19931004**; AU 5403194 A 19931004; CA 2147143 A 19931004; EP 93924292 A 19931004; RU 92000506 A 19921014