

Title (en)

A CLEANING METHOD AND APPARATUS THEREFOR

Publication

EP 0309432 A3 19910313 (EN)

Application

EP 88850310 A 19880919

Priority

- SE 8703644 A 19870921
- SE 8801511 A 19880422

Abstract (en)

[origin: EP0309432A2] The present invention relates to a method for cleaning objects, characterized by degreasing the objects with an aqueous tenside solution, such as to emulsify the hydrocarbons present, and by stimulating the growth of microorganisms for biodegradation of the hydrocarbons, by adding nutrient substances to the system. The invention also claims an apparatus for performing the method.

IPC 1-7

C11D 3/38; D06L 1/12

IPC 8 full level

C12M 1/00 (2006.01); **B08B 3/08** (2006.01); **B08B 3/10** (2006.01); **C11D 3/38** (2006.01); **C11D 11/00** (2006.01); **C11D 17/00** (2006.01); **C12N 1/20** (2006.01); **C23G 1/24** (2006.01); **C23G 1/36** (2006.01); **C23G 5/00** (2006.01)

CPC (source: EP)

B08B 3/08 (2013.01); **B08B 3/102** (2013.01); **C11D 3/381** (2013.01); **C23G 5/00** (2013.01); **C11D 2111/40** (2024.01)

Citation (search report)

- [A] EP 0116151 A1 19840822 - HENKEL KGAA [DE]
- [A] US 4124504 A 19781107 - MUNDEN GEORGE
- [A] GB 2065631 A 19810701 - INST FRANCAIS DU PETROLE
- [A] FR 2528087 A1 19831209 - NAL EXPL OCEANS CENTRE [FR]

Cited by

DE4340058A1; EP0715549A4; FR2706790A1; US6328045B1; DE19644714A1; EP1491661A1; DE102019005395A1; US5709234A; US5589004A; US5772782A; US6884301B2; US6391836B1; EP2316583A1; EP1351782A4; US6019110A; US6074491A; US6095163A; US5532162A; EP0588282A1; US7980257B2; WO9604083A1; WO2004113589A1; WO02057031A3; EP0784518B1

Designated contracting state (EPC)

AT BE CH DE ES FR GB GR IT LI LU NL SE

DOCDB simple family (publication)

EP 0309432 A2 19890329; EP 0309432 A3 19910313; EP 0309432 B1 19930414; AU 2216388 A 19890323; AU 613402 B2 19910801; DE 3880246 D1 19930519; DE 3880246 T2 19931125; ES 2041338 T3 19931116; JP H01159387 A 19890622; SE 8801511 D0 19880422; SE 8801511 L 19890322

DOCDB simple family (application)

EP 88850310 A 19880919; AU 2216388 A 19880913; DE 3880246 T 19880919; ES 88850310 T 19880919; JP 23620488 A 19880920; SE 8801511 A 19880422