

Title (en)

ELECTROCHEMICAL WET OXIDATION METHOD FOR HYDROCARBONS MIXED WITH WATER OR WITH SOIL

Title (de)

ELEKTROCHEMISCHES VERFAHREN ZUR NASS-OXIDATION VON MIT WASSER ODER MIT BODEN VERSETZTEN KOHLENWASSERSTOFFEN

Title (fr)

PROCEDE D'OXYDATION ELECTROCHIMIQUE PAR VOIE HUMIDE POUR HYDROCARBURES MELANGES A DE L'EAU OU A DE LA TERRE

Publication

EP 1515914 A1 20050323 (EN)

Application

EP 03727742 A 20030605

Priority

- GR 0300020 W 20030605
- GR 2002100267 A 20020605

Abstract (en)

[origin: WO03104152A1] Electrochemical wet oxidation method for hydrocarbons mixed with water or with soil, deriving from crude petroleum pumping, using a specific electrode, with regulated voltage and intensity of the direct electrical current, regulated content of sodium chloride in the water, regulated temperature of liquids during electrolysis, regulated pH value during electrolysis and neutralizing of residual oxidants with acidic sodium sulfite or sulfur dioxide, and pulverizing of soil and granulometry achieved by mechanical means or ultrasounds. This method succeeds in fully oxidizing the hydrocarbons mixed in the water and soil.

IPC 1-7

C02F 1/00

IPC 8 full level

B09C 1/08 (2006.01); **C02F 1/467** (2006.01); **C02F 1/461** (2006.01); **C02F 1/76** (2006.01)

CPC (source: EP)

B09C 1/085 (2013.01); **C02F 1/4674** (2013.01); **C02F 1/46114** (2013.01); **C02F 2101/32** (2013.01); **C02F 2201/46125** (2013.01); **C02F 2303/185** (2013.01)

Citation (search report)

See references of WO 03104152A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)

WO 03104152 A1 20031218; AU 2003232943 A1 20031222; EP 1515914 A1 20050323; GR 1004116 B 20030121; NO 20040673 D0 20040202

DOCDB simple family (application)

GR 0300020 W 20030605; AU 2003232943 A 20030605; EP 03727742 A 20030605; GR 2002100267 A 20020605; NO 20040673 A 20040202