

Title (en)
SURFACTANT BIOCATALYST FOR REMEDIATION OF RECALCITRANT ORGANICS AND HEAVY METALS

Title (de)
OBERFLÄCHENAKTIVER BOKATALYSATOR ZUR ENTFERNUNG HARTNÄCKIGER ORGANISCHER VERBINDUNGEN UND SCHWERMETALLEN

Title (fr)
BIOCATALYSEUR TENSIO-ACTIF PERMETTANT DE RESTAURER DES COMPOSES ORGANIQUES RECALCITRANTS ET DES METAUX LOURDS

Publication
EP 1848796 A1 20071031 (EN)

Application
EP 05722704 A 20050128

Priority
US 2005003405 W 20050128

Abstract (en)
[origin: WO2006085848A1] Novel strains of isolated and purified bacteria have been identified which have the ability to degrade petroleum hydrocarbons including a variety of PAHs. Several isolates also exhibit the ability to produce a biosurfactant. The combination of the biosurfactant-producing ability along with the ability to degrade PAHs enhances the efficiency with which PAHs may be degraded. Additionally, the biosurfactant also provides an additional ability to bind heavy metal ions for removal from a soil or aquatic environment.

IPC 8 full level
A62D 3/00 (2007.01); **B09C 1/10** (2006.01); **C02F 3/34** (2006.01); **C12N 1/20** (2006.01); **C12N 1/26** (2006.01); **C12R 1/01** (2006.01)

CPC (source: EP)
B09C 1/10 (2013.01); **C12N 1/20** (2013.01); **C12N 1/205** (2021.05); **C12N 1/26** (2013.01); **C02F 3/34** (2013.01); **C12R 2001/01** (2021.05); **C12R 2001/05** (2021.05); **C12R 2001/40** (2021.05); **C12R 2001/41** (2021.05); **C12R 2001/425** (2021.05); **C12R 2001/44** (2021.05)

Citation (search report)
See references of WO 2006085848A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
WO 2006085848 A1 20060817; BR PI0519962 A2 20090407; CA 2596386 A1 20060817; CA 2596386 C 20140325; CN 101184836 A 20080521; CN 101184836 B 20110907; EP 1848796 A1 20071031; EP 2360239 A2 20110824; EP 2360239 A3 20111109; JP 2008528029 A 20080731; MX 2007009125 A 20080212

DOCDB simple family (application)
US 2005003405 W 20050128; BR PI0519962 A 20050128; CA 2596386 A 20050128; CN 200580047098 A 20050128; EP 05722704 A 20050128; EP 11001418 A 20050128; JP 2007553080 A 20050128; MX 2007009125 A 20050128