

Title (en)  
METHOD FOR OBTAINING A CATHODOPHILIC, HYDROGEN-PRODUCING MICROBIAL CULTURE, MICROBIAL CULTURE OBTAINED WITH THIS METHOD AND USE OF THIS MICROBIAL CULTURE

Title (de)  
VERFAHREN ZUR GEWINNUNG EINER KATHODOPHILEN, WASSERSTOFF BILDENDEN MIKROBIELLEN KULTUR, MIT DIESEM VERFAHREN GEWONNENE MIKROBIELLE KULTUR UND VERWENDUNG DIESER MIKROBIELLEN KULTUR

Title (fr)  
PROCÉDÉ D'OBTENTION D'UNE CULTURE MICROBIENNE PRODUCTRICE D'HYDROGÈNE, CATHODOPHILE, CULTURE MICROBIENNE OBTENUE PAR CE PROCÉDÉ ET UTILISATION DE CETTE CULTURE MICROBIENNE

Publication  
**EP 2176405 A1 20100421 (EN)**

Application  
**EP 08778996 A 20080708**

Priority  
• NL 2008000172 W 20080708  
• NL 1034123 A 20070712

Abstract (en)  
[origin: WO2009008709A1] According to a first aspect, the present invention relates to a method for obtaining a cathodophilic, hydrogen-producing microbial culture. According to further aspects, the invention relates to the cathodophilic, hydrogen-producing microbial culture and the use of this microbial culture for the production of hydrogen. Further aspects of the invention relate to a method for manufacturing a bifunctional bioelectrode in which the cathodophilic, hydrogen-producing microbial culture is applied, and the bifunctional bioelectrode obtained with this method. Other aspects of the invention relate to a device for producing hydrogen in which the electrochemically active, hydrogen-producing microbial culture is applied.

IPC 8 full level  
**C12N 11/14** (2006.01); **C12M 1/42** (2006.01); **C12N 1/20** (2006.01); **C12N 1/36** (2006.01); **C12N 13/00** (2006.01); **C12P 3/00** (2006.01); **H01M 8/16** (2006.01)

CPC (source: EP)  
**C12M 21/04** (2013.01); **C12M 25/08** (2013.01); **C12N 1/20** (2013.01); **C12N 1/36** (2013.01); **C12N 11/14** (2013.01); **C12N 13/00** (2013.01); **C12P 3/00** (2013.01); **C25B 1/02** (2013.01); **C25B 9/19** (2021.01); **C25B 11/073** (2021.01); **H01M 8/16** (2013.01); **H01M 8/184** (2013.01); **Y02E 60/50** (2013.01)

Citation (search report)  
See references of WO 2009008709A1

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)  
AL BA MK RS

DOCDB simple family (publication)  
**WO 2009008709 A1 20090115**; CN 101784661 A 20100721; EP 2176405 A1 20100421; NL 1034123 C2 20090113

DOCDB simple family (application)  
**NL 2008000172 W 20080708**; CN 200880104114 A 20080708; EP 08778996 A 20080708; NL 1034123 A 20070712