

Title (en)

PROCESS FOR THE HYDROLYSIS OF CELLULOSE MEDIATED BY TERNARY COMPLEXES OF CELLULOSE, CLOSTRIDIUM THERMOCELLUM CELLS, AND CELLULASE EXPRESSED BY THESE CELLS

Title (de)

VERFAHREN ZUR DURCH DREIFACH-ZELLULOSE-KOMPLEXE, CLOSTRIDIUM-THERMOCELLUM-ZELLEN UND VON DIESEN ZELLEN EXPRIMIERT ZELLULASE VERMITTELTEN ZELLULOSE-HYDROLYSE

Title (fr)

SYNERGIE ENZYME-MICROBE

Publication

EP 2013355 A2 20090114 (EN)

Application

EP 07811862 A 20070501

Priority

- US 2007067954 W 20070501
- US 79663506 P 20060501

Abstract (en)

[origin: WO2007136971A2] Methods of utilizing reduced cellulase loads to hydrolyze cellulosic substrates are disclosed. The methods include determining an amount of purified cellulase necessary to substantially hydrolyze a quantity of cellulosic substrate in a period of time; reducing the amount of purified cellulase by a factor of between 2 and 5 to determine a reduced cellulase load; and introducing to the cellulosic substrate either (1) a microorganism expressing cell-bound cellulase in a concentration equal to the reduced cellulase load or (2) a fermentation agent that has been engineered to express cell-bound cellulase in a concentration equal to the reduced cellulase load under suitable conditions and for said period of time sufficient to allow substantial hydrolysis of the cellulosic substrate.

IPC 8 full level

C12P 19/14 (2006.01)

CPC (source: EP)

C12P 19/14 (2013.01)

Citation (search report)

See references of WO 2007136971A2

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 LV MC MT NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK RS

DOCDB simple family (publication)

WO 2007136971 A2 20071129; WO 2007136971 A3 20080410; AU 2007253987 A1 20071129; BR PI0711163 A2 20110823; CA 2651753 A1 20071129; CN 101466843 A 20090624; CN 101466843 B 20130508; EP 2013355 A2 20090114; JP 2009535067 A 20091001; ZA 200809448 B 20100825

DOCDB simple family (application)

US 2007067954 W 20070501; AU 2007253987 A 20070501; BR PI0711163 A 20070501; CA 2651753 A 20070501; CN 200780019672 A 20070501; EP 07811862 A 20070501; JP 2009510037 A 20070501; ZA 200809448 A 20081105