

Title (en)
PROCESSES FOR CATALYTIC CONVERSION OF LIGNIN TO LIQUID BIO-FUELS

Title (de)
VERFAHREN ZUR KATALYTISCHEN UMWANDLUNG VON LIGNIN IN FLÜSSIGE BIOBRENNSTOFFE

Title (fr)
PROCEDES DE CONVERSION CATALYTIQUE DE LIGNINE EN BIOCARBURANTS

Publication
EP 1888713 A2 20080220 (EN)

Application
EP 06758980 A 20060502

Priority
• US 2006016969 W 20060502
• US 67766205 P 20050502

Abstract (en)
[origin: WO2006119357A2] Processes for conversion of lignin to liquid products such as bio-fuels and fuel additives are disclosed and described. A process for conversion of a lignin material to bio- fuels can include subjecting the lignin material to a base catalyzed depolymerization reaction to produce a partially depolymerized lignin. The partially depolymerized lignin can then be subjected to a stabilization/partial hydrodeoxygenation reaction to form a partially hydrodeoxygenated product. Following partial hydrodeoxygenation, the partially hydrodeoxygenated product can be reacted in a refining step to form a bio-fuel. Each of these reaction steps can be performed in single or multiple steps, depending on the design of the process. The production of an intermediate partially hydrodeoxygenation product and subsequent reaction thereof can significantly reduce or eliminate reactor plugging and catalyst coking. A variety of useful bio-fuels such as fuels, fuel additives, and the like can be readily produced from renewable lignin materials in an improved conversion process.

IPC 8 full level
C10G 1/00 (2006.01); **C07C 1/00** (2006.01)

CPC (source: EP)
C10G 1/002 (2013.01); **C10G 1/086** (2013.01); **C10G 2300/1014** (2013.01); **C10G 2300/805** (2013.01); **Y02P 30/20** (2015.11)

Cited by
US10240099B2

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 NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
WO 2006119357 A2 20061109; WO 2006119357 A3 20070125; BR PI0611343 A2 20100831; CA 2605672 A1 20061109;
CN 101171324 A 20080430; CN 101171324 B 20121212; EP 1888713 A2 20080220; EP 1888713 A4 20110413; MX 2007013672 A 20080128

DOCDB simple family (application)
US 2006016969 W 20060502; BR PI0611343 A 20060502; CA 2605672 A 20060502; CN 200680015003 A 20060502; EP 06758980 A 20060502;
MX 2007013672 A 20060502