

Title (en)
PROCESS FOR MAKING FURFURAL

Title (de)
VERFAHREN ZUR HERSTELLUNG VON FURFURAL

Title (fr)
PROCÉDÉ DE FABRICATION DE FURFURAL

Publication
EP 2931906 A4 20160713 (EN)

Application
EP 15725223 A 20150128

Priority
• US 201461942188 P 20140220
• US 2015013192 W 20150128

Abstract (en)
[origin: WO2015126581A1] Processes are described for producing furfural from a mixture of pentoses and hexoses, by dehydrating and cyclizing pentoses to provide furfural using a water-soluble acid at elevated temperatures in the presence of a low-boiling, water-immiscible organic solvent, such as toluene, which is effective for extracting the furfural into an organic phase portion. In certain embodiments, a fermentation step occurs prior to the dehydration step to convert hexoses in the mixed pentoses and hexoses to ethanol while conserving pentoses therein for making furfural.

IPC 8 full level
C12P 7/06 (2006.01); **B01D 11/04** (2006.01); **C07D 307/50** (2006.01)

CPC (source: EP KR)
B01D 11/04 (2013.01 - EP KR); **C07D 307/08** (2013.01 - EP KR); **C07D 307/36** (2013.01 - EP KR); **C07D 307/48** (2013.01 - EP); **C07D 307/50** (2013.01 - EP KR); **C12P 7/06** (2013.01 - EP); **C12P 7/10** (2013.01 - EP KR); **C12P 17/04** (2013.01 - KR); **Y02E 50/10** (2013.01 - EP)

Citation (search report)
• [X] WO 2012088208 A2 20120628 - DU PONT [US], et al
• [A] EP 2684875 A1 20140115 - DSM IP ASSETS BV [NL]
• See references of WO 2015126581A1

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

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
WO 2015126581 A1 20150827; BR 112015016768 A2 20170711; CA 2897613 A1 20150820; CN 105378092 A 20160302; EP 2931906 A1 20151021; EP 2931906 A4 20160713; JP 2017506083 A 20170302; KR 20160120196 A 20161017

DOCDB simple family (application)
US 2015013192 W 20150128; BR 112015016768 A 20150128; CA 2897613 A 20150128; CN 201580001288 A 20150128; EP 15725223 A 20150128; JP 2016570768 A 20150128; KR 20157025880 A 20150128