

Title (en)
ACETIC ACID BASED REFINING PROCESS OF BIOMASS

Title (de)
Acetatsäurebasiertes Raffinierungsverfahren von Biomasse

Title (fr)
Procédé de raffinage de biomasse à base d'acide acétique

Publication
EP 2556190 A1 20130213 (EN)

Application
EP 11715068 A 20110408

Priority
• EP 10159465 A 20100409
• NL 2011050233 W 20110408
• EP 11715068 A 20110408

Abstract (en)
[origin: WO2011126369A1] The invention relates to a process for refining a biomass having a dry matter content of 5 -95wt.%, based on the total weight of the biomass, wherein the process comprises the subsequent stages of (a) water extraction under atmospheric pressure conditions and at a pH of 5 to 7, (b) prehydrolysis with water, steam or a mixture thereof at a temperature of 100°C to 200°C, and (c) hydrolysis at a pH of less than 7. In a further aspect of the invention, one or more valuable by-products such as for example vegetable oil, hemicellulose, lignin, furans, organic acids and monomeric and/or polymeric sugars are recovered from the refining process. The present invention also relates to a dissolving pulp obtained by the process according to the invention, and to the use of the dissolving pulp for the production of cellulose acetate.

IPC 8 full level
D21C 3/04 (2006.01); **D21C 1/02** (2006.01); **D21C 1/04** (2006.01); **D21C 9/10** (2006.01)

CPC (source: EP)
D21C 1/02 (2013.01); **D21C 3/04** (2013.01); **D21C 5/00** (2013.01); **D21C 9/10** (2013.01); **D21C 1/04** (2013.01); **D21C 11/0007** (2013.01)

Citation (search report)
See references of WO 2011126369A1

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

DOCDB simple family (publication)
WO 2011126369 A1 20111013; EP 2556190 A1 20130213; EP 2556190 B1 20200819; MY 181466 A 20201222; SG 184306 A1 20121129

DOCDB simple family (application)
NL 2011050233 W 20110408; EP 11715068 A 20110408; MY PI2012004260 A 20110408; SG 2012071866 A 20110408