

Title (en)
Process for Treatment of Lignocellulosic Biomass Material

Title (de)
Verfahren zur Bearbeitung eines Lignozellulose-Biomassematerials

Title (fr)
Procédé de traitement d'un matériau de biomasse lignocellulosique

Publication
EP 2336195 A1 20110622 (EN)

Application
EP 09179524 A 20091216

Priority
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Abstract (en)
A process for obtaining sugars and lignin from lignocellulosic biomass material, comprising the steps of: (a) contacting the lignocellulosic biomass material with a solvent comprising at least 40 wt.% of formic acid and at least 50 wt.% of an organic acid at a temperature of at least 100 °C and at a pressure of at most 10 bar(a) to obtain a first liquid stream comprising lignin and hemicellulose and a second stream comprising solid cellulose; (b) separating the first liquid stream from the second stream; (c) separating the solvent from the first liquid stream at a temperature in the range of from 30 °C to 80 °C to obtain a concentrate; (d) diluting the concentrate with water to obtain precipitated lignin and a second liquid stream comprising dissolved hydrolysed hemicellulose; and (e) separating the precipitated lignin from the second liquid stream.

IPC 8 full level
C08B 37/00 (2006.01); **C08H 8/00** (2010.01); **D21C 3/00** (2006.01)

CPC (source: EP)
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Citation (search report)
• [X] WO 9726403 A1 19970724 - ESA ROUSU CONSULTING OY [FI], et al
• [A] WO 0068494 A1 20001116 - CIE IND DES MATIERES VEGETALES [FR], et al
• [A] WO 2009080737 A2 20090702 - SHELL INT RESEARCH [NL], et al

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