Title (en)
DECOMPOSITION OF MATERIALS CONTAINING CARBOHYDRATES USING INORGANIC CATALYSTS

Title (de)
ABBAU VON KOHLENHYDRATHALTIGEN MATERIALIEN MIT ANORGANISCHEN KATALYSATOREN

Title (fr)
DÉCOMPOSITION DE MATÉRIAUX CONTENANT DES HYDRATES DE CARBONE AVEC DES CATALYSEURS INORGANIQUES

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Abstract (en)
[origin: WO2010009958A1] The invention relates to a method for depolymerizing materials containing carbohydrates comprising the following steps: (a) treating a material containing carbohydrates with an inorganic catalyst in order to release defined monomeric or oligomeric building blocks from the material containing the carbohydrates; and (b) separating the defined monomeric or oligomeric building blocks produced in step (a) from the rest of the carbohydrate-containing material. Preferably, the inorganic catalyst used in step (a) comprises tectosilicates, phyilosilicates or hydrotalcites and more preferably zeolites or bentonites. The carbohydrate-containing material further comprises preferably LCB and the defined monomeric or oligomeric building blocks are preferably glucoses, xyloses, arabinoses and oligomers thereof. Other aspects of the invention refer to the use of solution promoters in combination with the inorganic catalyst.

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See references of WO 2010009958A1

Citation (examination)
• WO 2007100052 A1 20070907 - UNIV HOKKAIDO NAT UNIV CORP [JP], et al & EP 2011569 A1 20090107 - UNIV HOKKAIDO NAT UNIV CORP [JP]
• EP 0329923 A1 19890830 - SYNFINA SA [BE]

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