

Title (en)
PROCESS FOR ISOLATING CELLULOSE FROM CELLULOSIC BIOMASS, ISOLATED CELLULOSE OF TYPE I AND COMPOSITE MATERIALS COMPRISING SAME

Title (de)
VERFAHREN ZUR ISOLIERUNG VON CELLULOSE-AUS EINER CELLULOSISCHEN BIOMASSE, ISOLIERTE CELLULOSE VOM TYP I UND VERBUNDMATERIALIEN DAMIT

Title (fr)
PROCÉDÉ D'ISOLEMENT DE CELLULOSE À PARTIR D'UNE BIOMASSE CELLULOSIQUE, CELLULOSE ISOLÉE DU TYPE I ET MATÉRIAUX COMPOSITES COMPRENANT CELLE-CI

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Abstract (en)
[origin: CA2931670A1] Described herein are processes for the production of a cellulose pulp and processes for isolating cellulose from cellulose-containing biomass. The processes of the invention comprises contacting the biomass with a source of anions and a source of cations, the source of anions and the source of cations being selected to react exothermically with the biomass and with each other. The processes of the invention have the particularity of generating exothermic reactions through enthalpies of reaction and mixture. Accordingly, the processes of the invention do not require any supply of external energy since the required energy is provided by chemical reagents that are already present in the biomass or added as needed. The invention also relates to isolated cellulose obtained from these processes and the use of same in various materials.

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