

Title (en)  
Method for obtaining cellulose

Title (de)  
Verfahren zur Gewinn von Cellulose

Title (fr)  
Procédé de production de cellulose

Publication  
**EP 2148000 A2 20100127 (DE)**

Application  
**EP 09009419 A 20090721**

Priority  
RU 2008130711 A 20080724

Abstract (en)  
Process for extracting cellulose comprises soaking the cellulose containing raw materials from herbaceous plants in an alkaline solution, thermomechanical-chemical processing of raw materials in a twin-screw apparatus comprising a heated chamber, two parallelly coupled shaft installed within the chamber, on which alternating screw conveyor segments and grinding cam segments are mounted, washing, bleaching, again washing, centrifuging and drying, where before washing, an additional thermo-chemical processing in a twin-screw apparatus, is carried out. Process for extracting cellulose comprises soaking the cellulose containing raw materials from herbaceous plants in an alkaline solution, thermomechanical-chemical processing of raw materials in a twin-screw apparatus comprising a heated chamber, two parallelly coupled shaft installed within the chamber, on which alternative screw conveyor segments and grinding cam segments are mounted, washing, bleaching, again washing, centrifuging and drying, where before washing, an additional thermo-chemical processing in a twin-screw apparatus, on which shaft of alternative screw conveyor segments and brake screw segments are mounted, is carried out.

Abstract (de)  
Verfahren zur Gewinnung von Cellulose mit folgenden aufeinanderfolgende Schritten: Es handelt sich um ein Einweichen der cellulosehaltigen Rohstoffe aus Krautpflanzen in einer Alkalilösung, thermomechanisch-chemisches Verarbeiten der Rohstoffe in einem Doppelschneckenapparat, umfassend eine beheizte Kammer, 2 innerhalb der Kammer installierte, parallel gekoppelte Wellen, auf denen alternierende Förderschneckensegmente und Zerkleinerungsnockensegmente montiert sind, Waschen, Bleichen, Waschen, Ausschleudern und Trocknen. Vor dem Waschen wird eine zusätzliche thermomechanisch-chemische Verarbeitung in einem Doppelschneckenapparat, auf dessen Wellen alternierende Förder- und Bremsschneckensegmente montiert sind, durchgeführt.

IPC 8 full level  
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CPC (source: EP)  
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Citation (applicant)  
• RU 2078163 C1 19970427 - TSNII KOMPLEKSNOJ AVTOM LEGKOJ [RU]  
• RU 2304647 C2 20070820 - NII NEFTEPROMYSLOVOJ KHIM OAO [RU]  
• RU 2007115321 A  
• RU 884715 A

Cited by  
CN103450363A; CN103317572A; RU2761239C1; CN105625074A; CN108130771A

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