

Title (en)
CELLULOSE PRODUCTION METHOD

Title (de)
CELLULOSEHERSTELLUNGSVERFAHREN

Title (fr)
PROCÉDÉ DE PRODUCTION DE CELLULOSE

Publication
EP 3216917 A2 20170913 (EN)

Application
EP 15857573 A 20151211

Priority
RU 2015000869 W 20151211

Abstract (en)
The invention relates to the chemical industry, namely to the production method of cellulose from all types of plant cellulose-containing raw material for paper, textile, and other industries including powder technologies. The method includes raw material impregnation and hydrolysis in a hydrolysis solution, cellulose filtration, washing with water, filtration and drying, accompanied with the use of cycles that include heating of the material to a temperature of 115°C or less, high-speed impulse action of vacuum with a pressure change in the range up to 5 mm Hg for a time of less than 10 seconds, followed by exposure under vacuum and vacuum relief. The proposed method is universal. Both solution of nitric or sulphuric acids, their mixture and alkaline solution can be used as hydrolysis solution. A solution of spent acids from nitrocellulose production can be used, which is less expensive.

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Cited by
CN116497465A; US10287366B2; US11008407B2; US11987650B2

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