

Title (en)

Method of producing cellulosic fibres and cellulosic fibres

Title (de)

Verfahren zur Herstellung von cellulosischen Fasern und cellulosische Fasern

Title (fr)

Procédé de production de fibres cellulosiques et fibres cellulosiques

Publication

EP 0853146 A3 19990324 (DE)

Application

EP 97122595 A 19971220

Priority

DE 19700424 A 19970109

Abstract (en)

[origin: EP0853146A2] A process is claimed for the production of cellulosic fibres (I) from a solution of cellulose in a tert. amine oxide (TAO) and optionally water, in which the spun solution is coagulated in at least two stages and then washed and dried. In the coagulation process, the residence time of the fibres in the first precipitation stage (PS1) is adjusted so as only to prevent surface stickiness, after which the fibres are kept in an unstretched state in further precipitation stages (PS), leaving the last stage in a fully coagulated state. Also claimed are cellulose fibres obtained from a solution of cellulose as above, in which the parameter F, as given by the expression: $F = -0.8754 \cdot P - 3.8532 \cdot L(004) + 19.2136 \cdot L(110) + 0.05395 \cdot L(004) \cdot P - 1.6483 \cdot L(110) < 2 > + 4.4283 \cdot L(004) / L(110)$, has a value of less than 4, where P = the porosity of the fibres (%), L(110) = crystallite width (nm) and L(004) = crystallite length (nm).

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D01F 2/00

IPC 8 full level

D01F 2/02 (2006.01); **D01F 2/00** (2006.01)

CPC (source: EP US)

D01F 2/00 (2013.01 - EP US); **Y10T 428/2913** (2015.01 - EP US); **Y10T 428/2965** (2015.01 - EP US)

Citation (search report)

- [A] WO 9606207 A1 19960229 - AKZO NOBEL NV [NL], et al
- [A] US 4246221 A 19810120 - MCCORSLEY III CLARENCE C
- [A] WO 9627700 A1 19960912 - AKZO NOBEL NV [NL], et al
- [A] DE 2913589 A1 19800911 - AKZONA INC

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DOCDB simple family (application)

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