

Title (en)

Process for the production of aminated fibres from regenerated cellulose

Title (de)

Verfahren zur Herstellung von aminierten Fasern aus Regeneratcellulose

Title (fr)

Procédé pour la fabrication de fibres aminées de cellulose régénérée

Publication

EP 0692558 A1 19960117 (DE)

Application

EP 95109423 A 19950619

Priority

DE 4422865 A 19940630

Abstract (en)

Modified regenerated cellulose fibres are claimed which are prepd. by adding a modifier to a cellulose soln. or a viscose soln. and spinning from the soln. or by viscose spinning. The modifier is (a) a polyethylene-imine of formula $H-(CH_2-CH_2-N(X)-)_a-CH_2-CH_2-N(X)-H$ (I); (b) a reaction prod. of (I) with a bifunctional alkylating agent of formula $A-Z-A$ (II); or (c) a polymeric reaction prod. (III) of an epihalohydrin with NH_3 or an amine of formula $R-NH-A'$ (IV): $X = H$ or $-(CH_2-CH_2-NH)c-H$; $n = 50-600$; $c = 0-50$; $A = -CH_2-Y$; $Y =$ substit. or gp. released as anion; $Z =$ direct bond, $-CnH_{2n}$ or $-CmH_{2m}-D-CmH_{2m}-$; $n = 1-4$; $m = 1$ or 2 ; $D = -O-$, $-S-$, $-NH-$, $-CO-$, $-SO-$, $-SO_2$ or phenylene; $A' = H$ or $1-5C$ (hydroxy)alkyl; $R = 1-5C$ (hydroxy)alkyl, $-(alkylene-NA')n-alkylene-NH-A'$ or $-(alkylene-X-alkylene-NA')n-alkylene-X-alkylene-NH-A'$ ($n = 0-5$; $X = O$ or S); or $R+A = -alkylene-NH-alkylene-$ or an aliphatic heterocycle, opt. contg. another O, S or N hetero-atom; alkylene = $1-6C$ alkylene. Also claimed is a method for dyeing and printing this material.

Abstract (de)

Modifizierte Celluloseregeneratfasern werden hergestellt, indem man einer Cellusolösung einen Modifikator zusetzt und aus der Lösung, oder indem man einer Viskoselösung einen Modifikator zusetzt und nach dem Viskosespinnverfahren Fasern spinnt, wobei der Modifikator ein Polyethylenimin oder ein Umsetzungsprodukt aus Polyethylenimin mit einem bifunktionellen Alkylierungsmittel ist.

IPC 1-7

D01F 2/00; **D01F 2/04**; **D01F 2/06**; **D01F 2/10**; **D06P 3/62**; **D06P 3/66**

IPC 8 full level

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CPC (source: EP KR)

D01F 1/10 (2013.01 - KR); **D01F 2/00** (2013.01 - EP); **D01F 2/02** (2013.01 - EP KR); **D01F 2/04** (2013.01 - EP); **D01F 2/06** (2013.01 - EP); **D01F 2/10** (2013.01 - EP KR); **D06P 1/5278** (2013.01 - EP KR); **D06P 3/6008** (2013.01 - EP KR); **D06P 3/66** (2013.01 - EP KR); **D06P 5/225** (2013.01 - EP KR); **D06P 5/30** (2013.01 - EP KR)

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