

Title (en)
Flame retardant cellulose regenerated fibers and process for their preparation

Title (de)
Flammhemmende Celluloseregeneratfasern und Verfahren zu deren Herstellung

Title (fr)
Fibres de cellulose régénérée ignifuges et procédé destiné à leur fabrication

Publication
EP 2664697 A2 20131120 (DE)

Application
EP 12007741 A 20121115

Priority
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• EP 12007741 A 20121115

Abstract (en)
Producing regenerated cellulosic fiber, comprises mixing a viscose with a dispersion of particles of a flame retardant solid matter, in a dispersion medium with a specific ratio, and carrying out wet spinning of the obtained mixture according to specific spinning parameters, molding the particles, whose dimension in a particle major axis is greater than in the two orthogonal axes of secondary particles, and aligning the particle major axes in the fiber in a preferred direction parallel to their spin direction. An independent claim is also included for the cellulose regenerated fiber spun from viscose that is doped with flame-retardant particles, produced by the above method, where the decrease in a dry tensile strength of the cellulose regenerated fiber spun from viscose doped with flame-retardant particles with respect to an identical cellulose regenerated fiber produced from an un-doped viscose, is less than 28%, preferably less than 20%.

Abstract (de)
Die Erfindung betrifft eine flammgehemmte Celluloseregeneratfaser, insbesondere Stapelfaser und insbesondere nach dem Viskoseverfahren hergestellt, mit erhöhten Trockenfestigkeitseigenschaften in Form einer im Bereich zwischen 2 und 7 % relativer Dehnung mittleren pro % Dehnung erforderlichen Kraft von 1,4 cN/tex oder höher, bevorzugt wenigstens 1,6 cN/tex oder höher, weiter bevorzugt wenigstens 1,8 cN/tex oder höher und insbesondere wenigstens 2,0 cN/tex oder höher.

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