

Title (en)
METHOD FOR PRODUCING REGENERATED CELLULOSIC FIBERS

Title (de)
HERSTELLUNGSVERFAHREN VON REGENERIERTEN CELLULOSEFASERN

Title (fr)
PROCÉDÉ DE PRODUCTION DE FIBRES CELLULOSIQUES RÉGÉNÉRÉES

Publication
EP 4124680 A1 20230201 (EN)

Application
EP 21187686 A 20210726

Priority
EP 21187686 A 20210726

Abstract (en)
The present disclosure relates to a method and processing facility for producing regenerated cellulosic fibers. The method comprises extruding a spinning solution into a coagulation bath which contains a salt and preferably an alkali to produce the fibers. The spinning solution comprising cellulose dissolved in an aqueous solvent comprising NaOH and ZnO. The coagulation bath has a pH-value of at least seven. The method further comprises a continuous process of applying to the fibers in a never-dried state a crosslinking agent with two or more reactive groups and heating the fibers to a curing temperature while maintaining the never-dried condition to produce a reaction between the crosslinking agent and the cellulose of the fiber.

IPC 8 full level
D01D 1/02 (2006.01); **D01D 5/06** (2006.01); **D01D 10/02** (2006.01); **D01D 13/00** (2006.01); **D01F 2/02** (2006.01); **D01F 11/02** (2006.01)

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Citation (applicant)
• EP 0538977 A1 19930428 - COURTAULDS PLC [GB]
• WO 2018169479 A1 20180920 - TREETOTEXTILE AB [SE]
• EP 3231901 A1 20171018 - TREETOTEXTILE AB [SE]
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• WO 2020171767 A1 20200827 - TREETOTEXTILE AB [SE]
• "Kirk-Othmer, Encyclopaedia of Chemical Technology", vol. 8, 1979, WILEY-INTERSCIENCE, article "Dyes, Reactive", pages: 374 - 392

Citation (search report)
• [XDYI] WO 2020171767 A1 20200827 - TREETOTEXTILE AB [SE]
• [Y] CN 110172754 A 20190827 - UNIV NATIONAL DONG HWA
• [XI] US 2021062369 A1 20210304 - KLAUS-NIETROST CHRISTOPH [AT], et al
• [A] WO 9528516 A1 19951026 - COURTAULDS FIBRES HOLDINGS LTD [GB], et al
• [A] WO 2020126931 A1 20200625 - CHEMIEFASER LENZING AG [AT]

Designated contracting state (EPC)
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