

Title (en)
FIBERS PRODUCED FROM RECYCLED CELLULOSIC WASTE MATERIAL

Title (de)
AUS RECYCELTEM ZELLULOSEABFALLMATERIAL HERGESTELLTE FASERN

Title (fr)
FIBRES PRODUITES À PARTIR DE DÉCHETS CELLULOSIQUES RECYCLÉS

Publication
EP 3983583 A4 20230712 (EN)

Application
EP 20823521 A 20200610

Priority
• SE 1950707 A 20190613
• SE 2020050599 W 20200610

Abstract (en)
[origin: WO20251463A1] The present invention relates to a process for the production of regenerated cellulosic fibers from a cellulosic spin dope, said process comprising the steps of treating a recycled cellulosic waste material to remove at least one of lignin, hemicelluloses, and contaminants from the recycled cellulosic waste material thereby providing a purified cellulosic intermediate product, dissolving the purified cellulosic intermediate product in an alkaline liquor to form a cellulosic spin dope, injecting the cellulosic spin dope into a coagulation bath to form a tow, washing and stretching the tow under alkaline conditions and/or acidic conditions, and cutting the tow to form regenerated cellulosic fibers.

IPC 8 full level
D01F 13/02 (2006.01); **C08B 1/00** (2006.01); **C08B 16/00** (2006.01); **C08L 1/02** (2006.01); **D01D 5/06** (2006.01); **D01F 2/02** (2006.01); **D21C 3/02** (2006.01)

CPC (source: EP)
C08B 15/06 (2013.01); **C08B 16/00** (2013.01); **C08J 5/18** (2013.01); **C08L 1/02** (2013.01); **C08L 1/08** (2013.01); **C08L 1/24** (2013.01); **D01D 5/06** (2013.01); **D01F 2/02** (2013.01); **D01F 13/02** (2013.01); **D21C 5/00** (2013.01); **D21C 5/02** (2013.01); **C08J 2300/30** (2013.01); **C08J 2301/02** (2013.01); **C08J 2301/08** (2013.01); **C08J 2301/24** (2013.01); **Y02P 70/62** (2015.11); **Y02W 30/64** (2015.05)

Citation (search report)
• [X] LIU WANGCHENG ET AL: "Eco-friendly post-consumer cotton waste recycling for regenerated cellulose fibers", CARBOHYDRATE POLYMERS, APPLIED SCIENCE PUBLISHERS , LTD BARKING, GB, vol. 206, 28 October 2018 (2018-10-28), pages 141 - 148, XP085556430, ISSN: 0144-8617, DOI: 10.1016/J.CARBPOL.2018.10.046
• See references of WO 2020251463A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
WO 2020251463 A1 20201217; EP 3983583 A1 20220420; EP 3983583 A4 20230712

DOCDB simple family (application)
SE 2020050599 W 20200610; EP 20823521 A 20200610