

Title (en)
CONTINUOUS PRODUCTION OF KERATIN FIBERS

Title (de)
KONTINUIERLICHE HERSTELLUNG VON KERATINFASERN

Title (fr)
PRODUCTION CONTINUE DE FIBRES DE KÉRATINE

Publication
EP 4093366 A4 20240424 (EN)

Application
EP 21744176 A 20210121

Priority

- US 202062963968 P 20200121
- US 2021014401 W 20210121

Abstract (en)
[origin: WO2021150744A1] This disclosure relates to processes for preparing a keratin fiber, for example, continuous process. In some embodiments, a process as described herein can comprise extruding a keratin solution into a first solution to form a first fiber; drawing the first fiber and oxidizing the first fiber to form a treated fiber; drawing the treated fiber and oxidizing the treated fiber one or more times; and setting the treated fiber to form the keratin fiber. Such processes can be useful for preparing a keratin fiber with a high draw ratio.

IPC 8 full level
A61K 8/04 (2006.01); **A61K 8/39** (2006.01); **A61K 8/86** (2006.01); **D01D 5/12** (2006.01); **D01F 4/00** (2006.01); **D01F 11/02** (2006.01)

CPC (source: EP US)
D01C 3/00 (2013.01 - US); **D01D 5/06** (2013.01 - EP); **D01D 5/12** (2013.01 - EP US); **D01F 4/00** (2013.01 - EP US); **D01F 11/02** (2013.01 - EP)

Citation (search report)

- [X] JP 2010236149 A 20101021 - AICHI PREFECTURE
- [X] HELAN XU ET AL: "Dissolution and regeneration of wool via controlled disintegration and disentanglement of highly crosslinked keratin", JOURNAL OF MATERIALS SCIENCE, vol. 49, no. 21, 24 July 2014 (2014-07-24), pages 7513 - 7521, XP055176692, ISSN: 0022-2461, DOI: 10.1007/s10853-014-8457-z
- [X] XU HELAN ET AL: "Controlled De-Cross-Linking and Disentanglement of Feather Keratin for Fiber Preparation via a Novel Process", ACS SUSTAINABLE CHEMISTRY & ENGINEERING, vol. 2, no. 6, 2 June 2014 (2014-06-02), US, pages 1404 - 1410, XP055843338, ISSN: 2168-0485, Retrieved from the Internet <URL:https://pubs.acs.org/doi/pdf/10.1021/sc400461d> DOI: 10.1021/sc400461d
- See also references of WO 2021150744A1

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 2021150744 A1 20210729; CA 3168825 A1 20210729; CN 115151235 A 20221004; EP 4093366 A1 20221130; EP 4093366 A4 20240424; JP 2023511391 A 20230317; US 2023071444 A1 20230309

DOCDB simple family (application)
US 2021014401 W 20210121; CA 3168825 A 20210121; CN 202180015831 A 20210121; EP 21744176 A 20210121; JP 2022544380 A 20210121; US 202117794548 A 20210121