

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

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- 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

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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)

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DOCDB simple family (publication)

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DOCDB simple family (application)

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