

Title (en)

CANNABIS PLANTS WITH IMPROVED YIELD

Title (de)

CANNABISPFLANZEN MIT VERBESSERTEM ERTRAG

Title (fr)

PLANTS DE CANNABIS AYANT UN RENDEMENT AMÉLIORÉ

Publication

EP 3975698 A4 20220817 (EN)

Application

EP 20814735 A 20200527

Priority

- US 201962854036 P 20190529
- IL 2020050592 W 20200527

Abstract (en)

[origin: WO2020240560A1] The present invention discloses a modified Cannabis plant exhibiting at least one improved domestication trait compared with wild type Cannabis, wherein the modified plant comprises at least one mutated Cannabis SELF PRUNING (SP) (CsSP) gene and/or at least one mutated Cannabis SELF PRUNING 5G (SP5G) (CsSPSG) gene. The present invention further discloses methods for production of the aforementioned modified Cannabis plant using genome modification.

IPC 8 full level

A01H 5/00 (2018.01); **A01H 5/02** (2018.01); **A01H 6/28** (2018.01); **C12N 15/82** (2006.01)

CPC (source: EP IL)

A01H 5/02 (2013.01 - EP IL); **A01H 6/28** (2018.04 - EP IL); **C12N 15/8262** (2013.01 - EP IL)

Citation (search report)

- [X] US 2016177404 A1 20160623 - MCKERNAN KEVIN [US]
- [X] WO 2009009142 A2 20090115 - MONSANTO TECHNOLOGY LLC [US], et al
- [X] SALVATORE LUCIANO COSENTINO ET AL: "Sowing time and prediction of flowering of different hemp (L.) genotypes in southern Europe", INDUSTRIAL CROPS AND PRODUCTS, ELSEVIER, NL, vol. 37, no. 1, 18 November 2011 (2011-11-18), pages 20 - 33, XP028459746, ISSN: 0926-6690, [retrieved on 20111124], DOI: 10.1016/J.INDCROP.2011.11.017
- [I] SI ZHANFENG ET AL: "Mutation of SELF-PRUNING homologs in cotton promotes short-branching plant architecture", JOURNAL OF EXPERIMENTAL BOTANY, vol. 69, no. 10, 27 April 2018 (2018-04-27), GB, pages 2543 - 2553, XP055938685, ISSN: 0022-0957, Retrieved from the Internet <URL:https://academic.oup.com/jxb/article-pdf/69/10/2543/25089510/ery093.pdf> DOI: 10.1093/jxb/ery093
- [IP] GASTON AMELIA ET AL: "Applying the Solanaceae Strategies to Strawberry Crop Improvement", TRENDS IN PLANT SCIENCE, ELSEVIER, AMSTERDAM, NL, vol. 25, no. 2, 4 November 2019 (2019-11-04), pages 130 - 140, XP085996641, ISSN: 1360-1385, [retrieved on 20191104], DOI: 10.1016/J.TPLANTS.2019.10.003
- See references of WO 2020240560A1

Cited by

EP4156912A4

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

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

WO 2020240560 A1 20201203; AU 2020284184 A1 20211223; AU 2020284184 A2 20220106; CA 3142241 A1 20201203; CN 115942868 A 20230407; CO 2021016207 A2 20211210; EP 3975698 A1 20220406; EP 3975698 A4 20220817; IL 288219 A 20220101; MX 2021014688 A 20220118; ZA 202110886 B 20230531

DOCDB simple family (application)

IL 2020050592 W 20200527; AU 2020284184 A 20200527; CA 3142241 A 20200527; CN 202080040112 A 20200527; CO 2021016207 A 20211129; EP 20814735 A 20200527; IL 28821921 A 20211117; MX 2021014688 A 20200527; ZA 202110886 A 20211223