Title (en)

GENERATION OF TRANSGENIC CANOLA WITH LOW OR NO SATURATED FATTY ACIDS

Title (de)

HERSTELLUNG VON TRANSGENEM RAPS OHNE ODER MIT GERINGEM GEHALT AN GESÄTTIGTEN FETTSÄUREN

Title (fr)

GÉNÉRATION DE COLZA TRANSGÉNIQUE AYANT PEU OU PAS D'ACIDES GRAS SATURÉS

Publication

EP 3232770 A4 20180606 (EN)

Application

EP 14908636 A 20141219

Priority

US 2014071705 W 20141219

Abstract (en)

[origin: WO2016099568A1] Compositions and methods include genetically encoding and expressing a novel delta-9 desaturase in plant cells. In some embodiments, methods of expressing nucleic acids in a plant cell to take advantage of the delta-9 desaturase enzyme's activity, such that the percent composition of saturated fatty acids in plant seeds is decreased and there is a concomitant increase in ?9 fatty acids. In other embodiments, amino acid sequences have delta-9 desaturase activity. Methods can involve expression of delta-9 desaturase in plant cells, plant materials, and whole plants for the purpose of increasing the amount of mono unsaturated fatty acids in whole plants, plant seeds, and plant materials, for example, seeds.

IPC 8 full level

A01H 5/00 (2018.01); **A01H 5/10** (2018.01); **A23D 9/00** (2006.01); **C12N 15/53** (2006.01); **C12N 15/82** (2006.01)

CPC (source: EP KR)

C12N 9/0083 (2013.01 - EP KR); **C12N 15/8247** (2013.01 - EP KR)

Citation (search report)

- [X] WO 2013130813 A1 20130906 - DOW AGROSCIENCES LLC [US]
- [XD] WO 2006042049 A2 20060420 - DOW AGROSCIENCES LLC [US], et al
- [X] US 2008260933 A1 20081023 - THOMPSON MARK ALLEN [US], et al
- See references of WO 2016099568A1

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 2016099568 A1 20160623; AU 2014413993 A1 20170601; BR 112017011810 A2 20180227; CA 2969617 A1 20160623; CN 106998666 A 20170801; EP 3232770 A1 20171025; EP 3232770 A4 20180606; IL 252674 A0 20170831; JP 2017537633 A 20171221; KR 20170098810 A 20170830; MX 2017007320 A 20170825; RU 2017119738 A 20190121; RU 2017119738 A3 20190121

DOCDB simple family (application)

US 2014071705 W 20141219; AU 2014413993 A 20141219; BR 112017011810 A 20141219; CA 2969617 A 20141219; CN 201480083879 A 20141219; EP 14908636 A 20141219; IL 25267417 A 20170605; JP 2017530227 A 20141219; KR 20177015287 A 20141219; MX 2017007320 A 20141219; RU 2017119738 A 20141219