

Title (en)
BIO-DERIVED COMPOSITIONS FOR USE IN AGRICULTURE

Title (de)
BIO-DERIVIERTE ZUSAMMENSETZUNGEN ZUR LANDWIRTSCHAFTLICHEN NUTZUNG

Title (fr)
COMPOSITIONS DÉRIVÉES DE PRODUITS BIOLOGIQUES DESTINÉES À ÊTRE UTILISÉES DANS L'AGRICULTURE

Publication
EP 3104709 A4 20171025 (EN)

Application
EP 15745856 A 20150210

Priority

- US 201414177203 A 20140210
- US 201414177015 A 20140210
- US 201414177199 A 20140210
- US 2015015261 W 20150210

Abstract (en)
[origin: WO2015120472A1] This invention pertains to a composition, which is a natural and organic pesticide, specifically for mitigating, controlling and treating fungicidal, virucidal and bactericidal pathogenic microorganisms in agricultural products such as root crops, fruits and vegetables. Examples of such disease-causing microorganisms are *Mycosphaerella fijensis* causing black Sigatoka disease in Cavendish (banana), *Ralstonia solanacearum* causing Moko disease in Cavendish (banana), *Lasiodiplodia theobromae* causing soft rot or fruit rot in crops and fruits, *Fusarium oxysporum* causing Panama wilt in fruits and crops, and many others. The composition is a fermented product of tropical plants, carbon source, protein (nitrogen) source, and a carrier agent. The fermented product may help strengthen the plant's immune system to fight pathogenic diseases. Since all the major constituents of the composition are generally regarded as safe, this natural pesticide is found to be non-toxic and safe to humans and animals, and environmentally benign.

IPC 8 full level
A01N 65/00 (2009.01); **A01N 63/22** (2020.01); **A01P 3/00** (2006.01); **A01P 21/00** (2006.01); **C02F 3/34** (2006.01)

CPC (source: EP US)
A01N 63/22 (2020.01 - EP US); **A01N 65/00** (2013.01 - EP US); **A01N 65/20** (2013.01 - EP); **A61P 1/00** (2017.12 - EP); **A61P 31/04** (2017.12 - EP); **C02F 3/00** (2013.01 - EP); **C02F 2101/32** (2013.01 - EP); **C02F 2103/32** (2013.01 - EP); **C02F 2303/02** (2013.01 - EP); **C02F 2305/06** (2013.01 - EP); **Y02E 50/30** (2013.01 - EP)

Citation (search report)

- [A] WO 9806268 A1 19980219 - LOCKHEED MARTIN IDAHO TECH CO [US], et al
- [I] US 2003186852 A1 20031002 - HEINS SHERRY DARLENE [US], et al
- [I] WO 03071874 A1 20030904 - WINSTON COMPANY INC [US], et al
- [I] US 2006166825 A1 20060727 - GOULET DAVID [US]
- [I] WO 2013148278 A1 20131003 - AGRINOS AS [US], et al
- [I] US 2002119124 A1 20020829 - DA LUZ WILMAR CORIO [BR]
- [I] US 6057268 A 20000502 - MEHTA RAJ J [US]
- [I] US 2006186042 A1 20060824 - KEETON JIMMIE A JR [US]
- [I] WO 2012101528 A2 20120802 - NOCUCOR [CA], et al
- See references of WO 2015120472A1

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 2015120472 A1 20150813; AU 2015213591 A1 20160915; BR 112016018344 A2 20170808; CA 2939188 A1 20150813; CN 106535642 A 20170322; EP 3104709 A1 20161221; EP 3104709 A4 20171025; IL 247222 A0 20160929; JP 2017512192 A 20170518; MX 2016010348 A 20170501; PE 20170082 A1 20170408; PH 12016501585 A1 20170206; RU 2016136350 A 20180315; RU 2016136350 A3 20190213

DOCDB simple family (application)
US 2015015261 W 20150210; AU 2015213591 A 20150210; BR 112016018344 A 20150210; CA 2939188 A 20150210; CN 201580018762 A 20150210; EP 15745856 A 20150210; IL 24722216 A 20160810; JP 2016552333 A 20150210; MX 2016010348 A 20150210; PE 2016001461 A 20150210; PH 12016501585 A 20160810; RU 2016136350 A 20150210