

Title (en)  
NEW METHOD FOR PREPARING AN INSECT REPELLENT AGENT

Title (de)  
NEUES VERFAHREN ZUR HERSTELLUNG EINES INSEKTENABWEHRMITTELS

Title (fr)  
NOUVEAU PROCÉDÉ DE PRÉPARATION D'UN AGENT RÉPULSIF D'INSECTES

Publication  
**EP 3997056 A1 20220518 (FR)**

Application  
**EP 20740579 A 20200710**

Priority  
• FR 1907753 A 20190710  
• EP 2020069568 W 20200710

Abstract (en)  
[origin: WO2021005214A1] The present invention relates to a method for preparing p-menthane-3,8-diol, characterised in that it comprises the following steps: a. preparing an aqueous solution comprising between 0.05% and 5% by mass of an ammonium salt, the ammonium salt being characterised in that it is selected from the group formed by an amino acid ammonium salt, and in particular an amino acid hydrochloride, a vitamin B ammonium salt, and in particular a vitamin B hydrochloride, and any one of the derivatives thereof, and in particular an ammonium salt of an amino acid ester, or an ammonium salt of a vitamin B ester, or is defined by the following formula (I): (I) wherein R1 represents a benzyl, optionally substituted, or R1 represents an alkyl, linear or branched, optionally cyclical, saturated or unsaturated, optionally substituted, comprising from 1 to 10 carbon atoms, and R2, R3 and R4 represent a hydrogen or a methyl group, and X represents a chlorine atom, bromine atom or an OR' group, R' being an alkyl group comprising from 1 to 10 carbon atoms, b. adding citronellal to the aqueous solution obtained in step a), and obtaining a mixture, c. stirring and heating the mixture obtained in step b), d. decanting the reaction medium obtained at the end of step c), and obtaining at least two phases, and e. separating the at least two phases obtained in step d), and obtaining at least one aqueous phase and at least one organic phase, the organic phase comprising at least p-menthane-3,8-diol.

IPC 8 full level  
**C07C 29/00** (2006.01); **A01N 31/06** (2006.01); **C07C 35/08** (2006.01)

CPC (source: EP US)  
**A01N 27/00** (2013.01 - US); **A01N 31/02** (2013.01 - US); **A01N 31/04** (2013.01 - US); **A01N 31/06** (2013.01 - EP US); **A01P 17/00** (2021.08 - US); **C07C 29/00** (2013.01 - EP); **C07C 29/56** (2013.01 - US); **C07C 29/86** (2013.01 - US); **C07C 2601/14** (2017.05 - EP US); **Y02A 50/30** (2018.01 - EP)

C-Set (source: EP)  
**C07C 29/00 + C07C 35/08**

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 2021005214 A1 20210114**; BR 112022000290 A2 20220531; CA 3146244 A1 20210114; EP 3997056 A1 20220518; FR 3098374 A1 20210115; FR 3098374 B1 20221223; US 2022248669 A1 20220811

DOCDB simple family (application)  
**EP 2020069568 W 20200710**; BR 112022000290 A 20200710; CA 3146244 A 20200710; EP 20740579 A 20200710; FR 1907753 A 20190710; US 202017625928 A 20200710