

Title (en)

NOVEL CRYSTALLINE FORMS OF FLUFENACET, METHODS FOR THEIR PREPARATION AND USE OF THE SAME

Title (de)

NEUE KRISTALLINE FORMEN VON FLUFENACET, VERFAHREN ZU IHRER HERSTELLUNG UND IHRE VERWENDUNG

Title (fr)

NOUVELLES FORMES CRISTALLINES DE FLUFÉNACET, LEURS PROCÉDÉS DE PRÉPARATION ET LEUR UTILISATION

Publication

EP 4073049 A4 20240103 (EN)

Application

EP 21731371 A 20210120

Priority

- GB 201918401 A 20191213
- CN 2021072800 W 20210120

Abstract (en)

[origin: WO2021115494A1] A novel crystalline modification II of flufenacet is provided, characterized by an X-ray powder diffractogram (XRD), an infrared (IR) spectrum, a melting point and/or a differential scanning calorimetry (DSC) profile. There is also provided a method for preparing the crystalline modification II of flufenacet comprising: i) providing a solution of flufenacet in a solvent system comprising a one or more solvents; ii) precipitating the crystalline modification II of flufenacet from the solution; and iii) isolating the precipitated crystalline modification II of flufenacet. Compositions comprising the crystalline modification II of flufenacet and the use of the crystalline modification II in the control of unwanted plant growth are also provided.

IPC 8 full level

C07D 285/13 (2006.01); **A01N 43/82** (2006.01)

CPC (source: EP GB)

A01N 43/82 (2013.01 - EP GB); **C07D 285/13** (2013.01 - EP GB); **A01P 13/00** (2021.08 - EP)

Citation (search report)

- [E] WO 2021115493 A2 20210617 - JIANGSU ROTAM CHEMISTRY CO LTD [CN]
- [A] US 4968342 A 19901106 - FOERSTER HEINZ [DE], et al
- [A] QING YE ET AL: "Synthesis and Herbicidal Activity of N-Aryl-2-heteroaryloxy-N-isopropyl acetamide", ASIAN JOURNAL OF CHEMISTRY, vol. 25, no. 12, 2013, IN, pages 6931 - 6934, XP055410265, ISSN: 0970-7077, DOI: 10.14233/ajchem.2013.15239
- See references of WO 2021115494A1

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 2021115494 A1 20210617; EP 4073049 A1 20221019; EP 4073049 A4 20240103; GB 201918401 D0 20200129; GB 2592888 A 20210915

DOCDB simple family (application)

CN 2021072800 W 20210120; EP 21731371 A 20210120; GB 201918401 A 20191213