

(12) International Application Status Report

Received at International Bureau: 21 January 2019 (21.01.2019)

Information valid as of: 15 June 2020 (15.06.2020)

Report generated on: 24 January 2021 (24.01.2021)

(10) Publication number:

WO2020/133022

(43) Publication date:

02 July 2020 (02.07.2020)

(26) Publication language:

Chinese (ZH)

(21) Application Number:

PCT/CN2018/124130

(22) Filing Date:

27 December 2018 (27.12.2018)

(25) Filing language:

Chinese (ZH)

(31) Priority number(s):

201811593040.6 (CN)

(31) Priority date(s):

25 December 2018 (25.12.2018)

(31) Priority status:

Priority document received (in compliance with PCT Rule 17.1)

(51) International Patent Classification:

C07D 401/10 (2006.01); *A01N 43/56* (2006.01); *C07C 211/04* (2006.01); *C07C 209/00* (2006.01); *A01P 13/00* (2006.01)

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(54) Title (EN): CYPYRAFLUONE DIMETHYLAMINE SALT, PREPARATION METHOD THEREFOR AND USE THEREOF

(54) Title (FR): SEL DE CYPYRAFLUONE DIMÉTHYLAMINE, SON PROCÉDÉ DE PRÉPARATION ET SON UTILISATION

(54) Title (ZH): 环吡氟草酮二甲胺盐及其制备方法和用途

(57) Abstract:

(EN): The present invention relates to a Cypyrfluone dimethylamine salt, a preparation method therefor, and use thereof. The present invention specifically relates to a crystal form A of the Cypyrfluone dimethylamine salt, and the X-ray powder diffraction spectrum has characteristic peaks at diffraction angles 2θ of 6.6°, 9.5°, 10.4°, 12.5°, 12.9°, 13.2°, 15.0°, 15.5°, 16.1°, 16.4°, 16.8°, 18.3°, 19.0°, 19.8°, 20.5°, 22.3°, 23.8°, 24.3°, 25.5°, 25.9°, 26.8°, 27.5°, 28.5°, 28.9°, 29.6°, 30.8°, 32.0°, 33.2°, 34.6°, 35.8°, 36.8°, 37.2°, 38.5°, 40.1°, 41.0°, 41.6°, and 42.4°, wherein the 2θ error range is within $\pm 0.2^\circ$. The Cypyrfluone dimethylamine salt has good physical and chemical stability, high solubility and high bioactivity, and can be used for preventing common weeds in wheat fields.

(FR): La présente invention concerne un sel de cypyrfluone diméthylamine, son procédé de préparation et son utilisation. La présente invention concerne en particulier une forme cristalline A du sel de cypyrfluone diméthylamine, et le spectre de diffraction de rayons X sur poudre a des pics caractéristiques à des angles de diffraction 2θ de 6,6°, 9,5°, 10,4°, 12,5°, 12,9°, 13,2°, 15,0°, 15,5°, 16,1°, 16,4°, 16,8°, 18,3°, 19,0°, 19,8°, 20,5°, 22,3°, 23,8°, 24,3°, 25,5°, 25,9°, 26,8°, 27,5°, 28,5°, 28,9°, 29,6°, 30,8°, 32,0°, 33,2°, 34,6°, 35,8°, 36,8°, 37,2°, 38,5°, 40,1°, 41,0°, 41,6° et 42,4°, la plage d'erreur 2θ étant de $\pm 0,2^\circ$. Le sel de cypyrfluone diméthylamine a une bonne stabilité physico-chimique, une solubilité élevée et une grande bioactivité, et peut être utilisé pour prévenir des mauvaises herbes communes dans des champs de blé.

(ZH): 涉及一种环吡氟草酮二甲胺盐及其制备方法和用途,具体涉及环吡氟草酮二甲胺盐A晶型,其X-射线粉末衍射谱图在衍射角 2θ 为

6.6°、9.5°、10.4°、12.5°、12.9°、13.2°、15.0°、15.5°、16.1°、16.4°、16.8°、18.3°、19.0°、19.8°、20.5°、22.3°、23.8°、处具有特征峰,其中 2θ 误差范围在 $\pm 0.2^\circ$ 内。所述环吡氟草酮二甲胺盐物理化学稳定性好,溶解度大,生物活性较高,可用于小麦田常见杂草的防除。

International search report:

International Report on Patentability (IPRP) Chapter II of the PCT:

Not available

(81) Designated States:

AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IR, IS, JO, JP, KE, KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW

European Patent Office (EPO) : AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR

African Intellectual Property Organization (OAPI) : BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, KM, ML, MR, NE, SN, TD, TG

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Eurasian Patent Organization (EAPO) : AM, AZ, BY, KG, KZ, RU, TJ, TM