

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 81726-WO-REG-ORG-P-1	FOR FURTHER ACTION see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No. PCT/EP2020/070243	International filing date (<i>day/month/year</i>) 17 July 2020 (17-07-2020)	(Earliest) Priority Date (<i>day/month/year</i>) 18 July 2019 (18-07-2019)
Applicant SYNGENTA CROP PROTECTION AG		

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 5 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

a. With regard to the **language**, the international search was carried out on the basis of:

- ☒ the international application in the language in which it was filed
☐ a translation of the international application into _____, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b))

b. ☐ This international search report has been established taking into account the **rectification of an obvious mistake** authorized by or notified to this Authority under Rule 91 (Rule 43.6**bis**(a)).

c. ☐ With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2. ☐ **Certain claims were found unsearchable** (See Box No. II)

3. ☐ **Unity of invention is lacking** (see Box No III)

4. With regard to the **title**,

- ☐ the text is approved as submitted by the applicant
☒ the text has been established by this Authority to read as follows:

SUBSTITUTED PYRIDAZINONES AS HERBICIDES

5. With regard to the **abstract**,

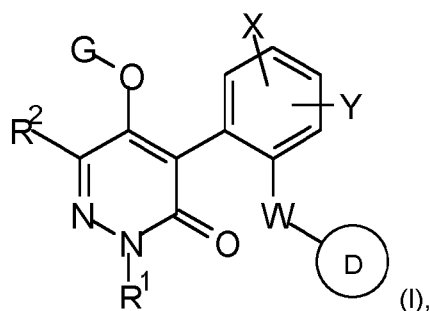
- ☐ the text is approved as submitted by the applicant
☒ the text has been established, according to Rule 38.2, by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority

6. With regard to the **drawings**,

- a. the figure of the **drawings** to be published with the abstract is Figure No. _____
☐ as suggested by the applicant
☐ as selected by this Authority, because the applicant failed to suggest a figure
☐ as selected by this Authority, because this figure better characterizes the invention
b. ☐ none of the figures is to be published with the abstract

Box No. IV Text of the abstract (Continuation of item 5 of the first sheet)

The present invention relates to herbicidal substituted phenyl-pyridazine-diones and substituted phenyl-pyridazinone derivatives of formula (I), as well as to processes and intermediates used for the preparation of such derivatives. The invention further extends to herbicidal compositions comprising such derivatives, as well as to the use of such compounds and compositions in controlling undesirable plant growth: in particular the use in controlling weeds, such as broad-leaved dicotyledonous weeds, in crops of useful plants.



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International application No
PCT/EP2020/070243

A. CLASSIFICATION OF SUBJECT MATTER		
INV.	C07D403/10 C07D405/10 C07D417/10 A01N43/58 C07D237/16	
ADD.	C07D409/10 C07D413/10	
According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED		
Minimum documentation searched (classification system followed by classification symbols) C07D A01N		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) EPO-Internal, CHEM ABS Data, WPI Data		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 2011/045271 A1 (BAYER CROPSCIENCE AG [DE]; BOJACK GUIDO [DE] ET AL.) 21 April 2011 (2011-04-21) cited in the application examples claims	1-20
A	WO 2016/008816 A1 (SYNGENTA PARTICIPATIONS AG [CH]) 21 January 2016 (2016-01-21) examples claims	1-20
A	WO 2011/035878 A1 (BAYER CROPSCIENCE AG [DE]; LEHR STEFAN [DE] ET AL.) 31 March 2011 (2011-03-31) examples claims	1-20
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☒ Further documents are listed in the continuation of Box C. ☒ See patent family annex.		
* Special categories of cited documents : "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family		
Date of the actual completion of the international search 10 September 2020		Date of mailing of the international search report 23/09/2020
Name and mailing address of the ISA/ European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Fax: (+31-70) 340-3016		Authorized officer Stix-Malaun, Elke

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International application No
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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X,P	WO 2019/137851 A1 (SYNGENTA PARTICIPATIONS AG [CH]) 18 July 2019 (2019-07-18) examples claims page 60 - page 100 -----	1-20
X,P	WO 2020/114869 A1 (SYNGENTA PARTICIPATIONS AG [CH]) 11 June 2020 (2020-06-11) examples claims page 44 - page 63 -----	1-20

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/EP2020/070243

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 2011045271	A1	21-04-2011	NONE
WO 2016008816	A1	21-01-2016	AR 101201 A1 30-11-2016 BR 112017000541 A2 26-06-2018 CN 106536486 A 22-03-2017 EP 3169668 A1 24-05-2017 ES 2760264 T3 13-05-2020 JP 6524207 B2 05-06-2019 JP 2017522318 A 10-08-2017 KR 20170029528 A 15-03-2017 US 2017166535 A1 15-06-2017 WO 2016008816 A1 21-01-2016
WO 2011035878	A1	31-03-2011	US 2011118118 A1 19-05-2011 WO 2011035878 A1 31-03-2011
WO 2019137851	A1	18-07-2019	AR 114175 A1 29-07-2020 AU 2019207340 A1 09-07-2020 CA 3087639 A1 18-07-2019 CN 111566094 A 21-08-2020 TW 201930271 A 01-08-2019 UY 38047 A 30-08-2019 WO 2019137851 A1 18-07-2019
WO 2020114869	A1	11-06-2020	NONE