

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference BCS233006WO	FOR FURTHER ACTION see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No. PCT/EP2024/055209	International filing date (<i>day/month/year</i>) 29 February 2024 (29-02-2024)	(Earliest) Priority Date (<i>day/month/year</i>) 3 March 2023 (03-03-2023)
Applicant BAYER AKTIENGESELLSCHAFT		

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 4 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 43.6bis(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:

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

INTERNATIONAL SEARCH REPORT

International application No
PCT/EP2024/055209

A. CLASSIFICATION OF SUBJECT MATTER INV. A01N25/04 A01P7/04 ADD.		
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) A01N A01P		
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		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X,P	WO 2023/114120 A1 (FMC CORP [US]) 22 June 2023 (2023-06-22) examples -----	1-15
X	WO 2021/067678 A1 (FMC CORP [US]; FMC AGRO SINGAPORE PTE LTD [SG]) 8 April 2021 (2021-04-08) examples 9-10 -----	1, 2, 8-12, 14, 15
Y	US 9 332 756 B2 (GUTSCHE OLIVER WALTER [US]; ANNAN ISAAC BILLY [US] ET AL.) 10 May 2016 (2016-05-10) table 2 -----	1-15
X	WO 2008/031512 A1 (BAYER CROPSCIENCE AG [DE]; VERMEER RONALD [DE] ET AL.) 20 March 2008 (2008-03-20) examples -----	1, 6-8
Y		1-15
☐ 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 2 May 2024		Date of mailing of the international search report 13/05/2024
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 Bertrand, Franck

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/EP2024/055209

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 2023114120	A1	22-06-2023	AR 127938 A1	13-03-2024
			TW 202329811 A	01-08-2023
			WO 2023114120 A1	22-06-2023

WO 2021067678	A1	08-04-2021	AR 120139 A1	02-02-2022
			AU 2020357994 A1	14-04-2022
			BR 112022006009 A2	12-07-2022
			CN 114501989 A	13-05-2022
			EP 4040964 A1	17-08-2022
			IL 291668 A	01-05-2022
			JP 2022550573 A	02-12-2022
			KR 20220075359 A	08-06-2022
			PE 20211699 A1	01-09-2021
			TW 202126173 A	16-07-2021
			US 2024057602 A1	22-02-2024
			UY 38903 A	31-05-2021
			WO 2021067678 A1	08-04-2021

US 9332756	B2	10-05-2016	AR 058930 A1	05-03-2008
			AT E442776 T1	15-10-2009
			AU 2006335092 A1	19-07-2007
			BR PI0621177 A2	06-12-2011
			CA 2632803 A1	19-07-2007
			EA 200870152 A1	27-02-2009
			EP 1968382 A2	17-09-2008
			ES 2329297 T3	24-11-2009
			JP 4934681 B2	16-05-2012
			JP 2009522358 A	11-06-2009
			KR 20080083701 A	18-09-2008
			MA 30147 B1	02-01-2009
			MX 278892 B	09-09-2010
			MY 143473 A	31-05-2011
			NZ 568602 A	28-01-2011
			PL 1968382 T3	29-01-2010
			PT 1968382 E	13-11-2009
			RS 20070003 A	28-11-2008
			TN SN08292 A1	29-12-2009
			TW I324908 B	21-05-2010
			US 2008305093 A1	11-12-2008
			UY 30081 A1	31-08-2007
			WO 2007081553 A2	19-07-2007

WO 2008031512	A1	20-03-2008	AR 062842 A1	10-12-2008
			AT E509525 T1	15-06-2011
			AU 2007297016 A1	20-03-2008
			BR PI0716832 A2	29-10-2013
			CL 2007002681 A1	14-03-2008
			CN 101534640 A	16-09-2009
			CO 6150085 A2	20-04-2010
			DE 102006043444 A1	27-03-2008
			DK 2068625 T3	05-09-2011
			EP 2068625 A1	17-06-2009
			ES 2365556 T3	06-10-2011
			JP 5237952 B2	17-07-2013
			JP 2010503626 A	04-02-2010
			KR 20090060341 A	11-06-2009
			MA 30789 B1	01-10-2009
			PL 2068625 T3	31-10-2011

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/EP2024/055209

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
		PT 2068625 E	27-07-2011
		SI 2068625 T1	30-09-2011
		TW 200829158 A	16-07-2008
		WO 2008031512 A1	20-03-2008
		ZA 200901691 B	26-05-2010
