

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference BCS184004 WO	FOR FURTHER ACTION see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No. PCT/EP2019/058891	International filing date (<i>day/month/year</i>) 9 April 2019 (09-04-2019)	(Earliest) Priority Date (<i>day/month/year</i>) 10 April 2018 (10-04-2018)
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 43.6**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:

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/EP2019/058891

A. CLASSIFICATION OF SUBJECT MATTER
 INV. C07D271/06 C07D413/04 A01N43/74 A01P3/00
 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)

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, WPI Data, CHEM ABS Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	RASSUKANA YULIYA V ET AL: "Fluorinated NH-iminophosphonates and iminocarboxylates: novel synthons for the preparation of biorelevant [alpha]-aminophosphonates and carboxyl", TETRAHEDRON, vol. 70, no. 18, 2014, - 2014, pages 2928-2937, XP028841804, ISSN: 0040-4020, DOI: 10.1016/J.TET.2014.03.030 page 2932; compounds 35a, 35b ----- -/--	1-3,7



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

15 May 2019

Date of mailing of the international search report

23/05/2019

Name and mailing address of the ISA/

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INTERNATIONAL SEARCH REPORT

International application No

PCT/EP2019/058891

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DATABASE CAPLUS [Online] CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; 1990, SOLOSHONOK, V. A. et al.: "Reactions of methyl trifluoropyruvate and its (methoxycarbonyl)imine with pi-rich heterocycles and dipolar compounds", XP002783082, Database accession no. 1990:459045 abstract & SOLOSCHONOK, V. A. ET AL.: "Reactions of methyl trifluoropyruvate and its (methoxycarbonyl)imine with pi-rich heterocycles and dipolar compounds", ZHURNAL ORGANICHESKOI KHIMII, vol. 26, no. 2, 1990, - 1990, pages 419-425, -----	1-3,6
A	Rajendra M. Srivastava ET AL: "Synthesis Spectroscopic Studies and the Mechanism of Formation of 4,5-Dihydro-1,2,4-oxadiazoles", Journal of Heterocyclic Chemistry, 1 February 1987 (1987-02-01), pages 101-105, XP055492776, DOI: 10.1002/jhet.5570240121 Retrieved from the Internet: URL:https://onlinelibrary.wiley.com/doi/pdf/10.1002/jhet.5570240121 [retrieved on 2018-07-16] page 101; compounds 2a-2i last paragraph, page 103 -----	1-11
A	WO 2018/029242 A1 (SYNGENTA PARTICIPATIONS AG [CH]) 15 February 2018 (2018-02-15) cited in the application the whole document -----	1-11
A	DATABASE CAPLUS [Online] CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; 2003, Pharmacia Corporation: "Preparation of amidine-substituted polycyclic compound prodrugs useful for selective inhibition of serine proteases of the coagulation cascade", XP002783083, Database accession no. 2003:282399 cited in the application & WO 03/028729 A2 (PHARMACIA CORP [US]; SOUTH MICHAEL S [US]; WEBBER RONALD K [US]; HUANG) 10 April 2003 (2003-04-10) cited in the application -----	1-11

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/EP2019/058891

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 2018029242	A1	15-02-2018	NONE
