

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference BHC151087 WO	FOR FURTHER ACTION see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No. PCT/EP2018/078586	International filing date (<i>day/month/year</i>) 18 October 2018 (18-10-2018)	(Earliest) Priority Date (<i>day/month/year</i>) 25 October 2017 (25-10-2017)
Applicant BAYER PHARMA 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 3 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/EP2018/078586

A. CLASSIFICATION OF SUBJECT MATTER

INV. C07D333/64 C07D333/68 C07D487/04 C07F5/02
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 C07F

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

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	ELLANOVA LABORATORIES LC: "Benzo[b]thiophene, 5-(chloromethyl)-7-methoxy-" CHEMICAL CATALOG, 8 August 2012 (2012-08-08), pages 1-1, XP055523647, abstract	7
A	----- WO 2013/087578 A1 (BAYER PHARMA AG [DE]; BAYER IP GMBH [DE]) 20 June 2013 (2013-06-20) cited in the application page 58 - page 109 example 1 compounds 4A,5A -----	1-9



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 January 2019

Date of mailing of the international search report

21/01/2019

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

Eberhard, Michael

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/EP2018/078586

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 2013087578	A1	20-06-2013	
		AR 089207 A1	06-08-2014
		AU 2012350750 A1	12-06-2014
		AU 2017206140 A1	03-08-2017
		CA 2859133 A1	20-06-2013
		CL 2014001547 A1	24-10-2014
		CN 104245700 A	24-12-2014
		CO 7030961 A2	21-08-2014
		CR 20140288 A	14-07-2014
		CU 20140065 A7	27-11-2014
		CU 20160039 A7	31-08-2016
		CY 1118112 T1	28-06-2017
		DK 2791140 T3	19-09-2016
		DO P2014000127 A	15-08-2014
		EA 201400707 A1	28-11-2014
		EP 2791140 A1	22-10-2014
		ES 2591203 T3	25-11-2016
		GT 201400113 A	25-08-2015
		HK 1205123 A1	11-12-2015
		HR P20161130 T1	18-11-2016
		HU E029582 T2	28-03-2017
		IL 232611 A	29-05-2017
		JO 3295 B1	16-09-2018
		JP 6050829 B2	21-12-2016
		JP 2015500307 A	05-01-2015
		KR 20140103328 A	26-08-2014
		LT 2791140 T	10-10-2016
		ME 02517 B	20-02-2017
		NZ 625073 A	29-07-2016
		PE 18552014 A1	26-11-2014
		PH 12014501355 A1	22-09-2014
		PL 2791140 T3	31-08-2017
		PT 2791140 T	20-09-2016
		SG 11201402325Q A	26-09-2014
		TN 2014000255 A1	30-09-2015
		TW 201339162 A	01-10-2013
		UA 116768 C2	10-05-2018
		US 2013158000 A1	20-06-2013
		US 2014336173 A1	13-11-2014
		UY 34484 A	31-07-2013
		WO 2013087578 A1	20-06-2013
		ZA 201405140 B	26-04-2017