

CAVELIER

ABOGADOS

www.cavelier.com
cavelier@cavelier.com

EDIFICIO SISKI
CARRERA 4 No. 72 - 35
BOGOTÁ 8, COLOMBIA

Teléfono: (57-1) 347 3611
Telefax: (57-1) 211 8650
(57-1) 700 4814
Fax in U.S.A.: (1-305) 675 7743

Señora Directora
DIRECCION DE NUEVAS CREACIONES
Superintendencia de Industria y Comercio
E. S. D.

SUPERINTENDENCIA DE INDUSTRIA Y COMERCIO



No. 10-121065-00002-0000

Fecha: 2011-01-25 12:01:51 Dep. 2020 DIR.NUEVASCR
Tra. 11 PATENTEIYII Eve: 378 FASENACIONALI
Act. 444 RESPUESTAREQUE Folios: 7

Trámite : 011

Evento : 378

Actuación : 444

Referencia : Expediente No. 10.121.065
Asunto : Solicitud de patente para: **DERIVADOS DE 1-HETEROCICLILO-1,5-DIHIDRO-PIRAZOLO[3,4-D]PIRIMIDIN-4-ONA Y SU USO COMO MODULADORES DE LA PDE9A**
Solicitante : **BOEHRINGER INGELHEIM INTERNATIONAL GMBH**
Fecha solicitud : 30 de septiembre de 2010

1. Yo, Luz Clemencia de PÁEZ, obrando como apoderada de la sociedad solicitante en el asunto de la referencia, doy respuesta al Oficio No. 15747, notificado por fijación en lista de fecha 3 de diciembre de 2010.

2. Mediante el Oficio No. 15747 se puso en conocimiento del solicitante el resultado del examen de forma realizado por ese Despacho, requiriéndole para aclarar lo siguiente:

2.1. **Aclarar la información correspondiente al título referido en el documento de cesión, el cual no coincide con el presentado en el petitorio fase nacional:** Informo a ese Despacho que el título de la invención presentado en la Solicitud Internacional No. PCT/EP2009/053907, correspondiente a la presente fase nacional, así como el de la solicitud EP No. 08153987.6 del 2 de abril de 2008, de la cual se reivindicó prioridad fue "New Compounds for the treatment of CNS disorders" en español "Nuevos compuestos para el tratamiento del Sistema Nervioso Central", que corresponde al título que consta en el documento de cesión presentado con el Formulario Único de Solicitud de Patente PCT, Entrada en Fase Nacional.

Solicito a ese Despacho tener en cuenta que el documento de cesión presentado en el trámite de la presente solicitud, corresponde a la copia certificada, notariada y legalizada por Apostilla, de la cesión de derechos otorgada en los meses de marzo y abril de 2009, por los nueve (9) inventores a favor de la sociedad solicitante, con validez

para Colombia. Así mismo solicito a ese Despacho tener en cuenta que el documento de cesión de derechos hace referencia a la solicitud de patente EP 08153987.6 correspondiente a la prioridad aquí reivindicada.

Posteriormente el 26 de mayo de 2009, fecha en la cual se completó la Búsqueda Internacional, la Administración encargada de la misma modificó el título de la invención a "1-Heterocycl-1,5-dihydro-pyrazolo[3,4-D]pyrimidin-4-one derivatives and their use as PDE9A modulators" en español: **"Derivados de 1-heterociclilo-1,5-dihidro-pirazolo[3,4-d]pirimidin-4-ona y su uso como moduladores de la PDE9A"**, que corresponde al actual título mencionado en el Formulario Único de Solicitud de Patente PCT, Entrada en Fase Nacional, radicado ante ese Despacho el 30 de septiembre de 2010.

Acompaño con este escrito, una copia del Reporte de Búsqueda Internacional en el cual consta el cambio del título de la invención.

3. Puesto que se han atendido a cabalidad las observaciones hechas por ese Despacho sobre la presente solicitud de patente, atentamente solicito que se continúe su tramitación.

Señora Directora,


LUZ CLEMENCIA DE PÁEZ

C.C. No. 35.456.344 de Usaquén

T.P.A. 23.555

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference P01-2363/WO	FOR FURTHER ACTION see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No. PCT/EP2009/053907	International filing date (day/month/year) 01/04/2009	(Earliest) Priority Date (day/month/year) 02/04/2008
Applicant BOEHRINGER INGELHEIM INTERNATIONAL GMBH		

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 43.6bis(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:

1-HETEROCYCLYL-1, 5-DIHYDRO-PYRAZOLO [3, 4-D] PYRIMIDIN-4-ONE DERIVATIVES AND THEIR USE AS PDE9A MODULATORS

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(b), 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

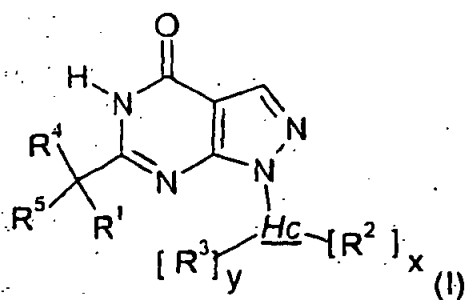
INTERNATIONAL SEARCH REPORT

International application No.

PCT/EP2009/053907

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

The invention relates to novel 1,6-disubstituted pyrazolopyrimidinones



with

Hc is a mono-, bi- or tricyclic heterocyclyl group, the ring members of which are carbon atoms and at least 1, preferably 1, 2 or 3, heteroatom(s), which are selected from the group of nitrogen, oxygen and sulphur, which is in the form of $-S(O)_r-$ with r being 0, 1 or 2, and

said heterocyclyl group is or comprises 1 non-aromatic, saturated, or partly unsaturated monocyclic ring which comprises at least 1 heteroatom as ring member and

said heterocyclyl group is bound to the scaffold by said 1 non-aromatic, saturated, or partly unsaturated monocyclic ring which comprises at least 1 heteroatom as ring member.

According to one aspect of the invention the new compounds are for the manufacture of medicaments, in particular medicaments for the treatment of conditions concerning deficits in perception, concentration, learning or memory. The new compounds are also for the manufacture of medicaments for the treatment of Alzheimer's disease.

INTERNATIONAL SEARCH REPORT

International application No

PCT/EP2009/053907

A. CLASSIFICATION OF SUBJECT MATTER
INV. C07D487/04 A61K31/519

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

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 practical, search terms used)

EPO-Internal, CHEM ABS Data, WPI Data, BEILSTEIN Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 2004/099210 A (BAYER HEALTHCARE AG [DE]; HENDRIX MARTIN [DE]; BAERFACKER LARS [DE]; E) 18 November 2004 (2004-11-18) cited in the application page 56 - page 57; claim 1 page 14, line 10 - page 15, line 9	1, 2, 14, 19-27
X	WO 2004/099211 A (BAYER HEALTHCARE AG [DE]; HENDRIX MARTIN [DE]; BAERFACKER LARS [DE]; E) 18 November 2004 (2004-11-18) page 79 - page 80; claim 1 page 17, line 6 - page 18, line 10 ----- -/--	1, 2, 14, 19-27

☒ 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 document 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.
- *G* document member of the same patent family

Date of the actual completion of the international search

26 May 2009

Date of mailing of the international search report

08/06/2009

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

Fink, Dieter

INTERNATIONAL SEARCH REPORT

International application No

PCT/EP2009/053907

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WO 2004/018474 A (BAYER HEALTHCARE AG [DE]; HENDRIX MARTIN [DE]; BOESS FRANK-GERHARD [DE]) 4 March 2004 (2004-03-04) page 42; claim 1 page 17, line 1 - page 18, line 2	1-28
X	WO 2004/096811 A (PFIZER PROD INC [US]; BELL ANDREW SIMON [GB]; DENINNO MICHAEL PAUL [US]) 11 November 2004 (2004-11-11) cited in the application page 55 - page 56; claim 1	1, 2, 12, 19, 20, 25-27
Y	page 55 - page 56; claim 1 page 59 - page 60; claims 5-8	1-28
A	WO 2004/026876 A (BAYER HEALTHCARE AG [DE]; HENDRIX MARTIN [DE]; BOESS FRANK-GERHARD [DE]) 1 April 2004 (2004-04-01) the whole document	1-28