

INFORME DE BÚSQUEDA DE PATENTES

N° de solicitud: **NC20160000484**

CRITERIOS PARA LA BÚSQUEDA (anexar pantallazo o reporte en PDF, junto con los boléanos utilizados**)

Palabras clave utilizadas	26	0	(NAPHTHO[1,2-D]IMIDAZOLE)
	25	0	(NAPHTHO[1 OR 2-D]IMIDAZOLE)/TX/BI/SA/KEYW/IN/PA
	24	0	23 AND (IMIDAZOLE)
	23	21	NAPHTHOQUINONE AND OBESITY
	22	0	15 AND 20
	21	0	15 AND (NAPHTHOQUINONE)
	20	5126	NAPHTHOQUINONE/BI/SA/IN/PA
	19	0	15 AND 17
	18	0	17 AND 15
	17	1905	NAPHTHO/BI/SA/IN/PA
	16	0	(NAPHTHO[2 OR 1-D]/TX/BI/SA/KEYW/IN/PA
	15	191	14 AND 13
	14	16122765	("4" OR 5-DIONE)/BI/SA/IN/PA
	13	207	12 AND 10
	12	36554	IMIDAZOLE/BI/SA/IN/PA
	11	0	(2-PHENYL-3H-NAPHTHO AND ([2 OR 1-D]) AND (IMIDAZOLE-4 OR 5-DIONE))/TX/BI/SA/KEYW/IN/PA
	10	5630	9 AND 8
	9	17486	(METABOLIC S DISEASES)/BI/SA/IN/PA
	8	40143	6 AND 7
	7	43754	OBESITY/BI/SA/IN/PA
	6	35054135	("1" OR 2-NAPHTHOQUINONE)/BI/SA/IN/PA

CLASIFICACIONES UTILIZADAS PARA LA BÚSQUEDA

CIP: A61P 3/00.

CPC (Opcional): Por estructura en STN y Patbase

DOCUMENTOS CONSIDERADOS RELEVANTES (documentos patentes, literatura no patente, etc...)

Informes/Base de datos	N° de solicitud/ Autor*	Fecha de Publicación/Presentación (DD/MM/AAAA)	Reiv. afectadas (con indicación, si procede, de las partes relevantes)	Categoría especiales de los documentos citados**
ORBIT, STN, ESPACENET, USPTO Y PATBASE	CARROLL ET AL	1970	1 Novedad 1 a 27 Nivel Inventivo	X,Y
	WO2008066300	05/06/2008	1 a 27 Nivel Inventivo	Y
	F I Carroll ET AL	1970	No relevante	A
	REGISTRY	21/12/2007	No relevante	A
	CRIPPA G B ET AL	1930	No relevante	A
	JP2006135144	25/05/2006	No relevante	A
	AHMED MUSTAFA ET AL	1956	No relevante	A

** Categorías especiales de documentos citados:

“A” documento que define el estado general de la técnica no considerado como particularmente relevante.

“E” solicitud de patente o patente anterior pero publicada en la fecha de presentación internacional o en fecha posterior.

“P” documento publicado antes de la fecha de presentación internacional pero con posterioridad a la fecha de prioridad reivindicada.

“X” documento particularmente relevante; la invención reivindicada no puede considerarse nueva o que implique una actividad inventiva por referencia al documento aisladamente considerado.

“Y” documento particularmente relevante; la invención reivindicada no puede considerarse que implique una actividad inventiva cuando el documento se asocia a otro u otros documentos de la misma naturaleza, cuya combinación resulta evidente para un experto en la materia.

Literatura no patente

*Se incluye entre otros, toda la referencia de la literatura no patente.

Fecha del reporte de búsqueda:

01/08/2018

ESPACENET

Documents cited:	Search	[1]* WO2008066300 (MD BIALPHA CO LTD [KR], et al) [1] 1-18 * claims 1, 13-14; compounds 6-9 *;
		[XA] - F. IVY, CARROLL ET AL, "Synthesis of 1-(3'-N,N-diethylaminopropyl)-2-alkylnaphth[1,2-d]imidazole-4,5-diones", JOURNAL OF MEDICINAL CHEMISTRY, (19700301), vol. 13, no. 2, doi:10.1021/jm00296a042, ISSN 0022-2623, pages 312 - 314, XP055371734 [X] 1,2,4-6 * compounds IVa-IVg * [A] 3,7-18 DOI: ➤ http://dx.doi.org/10.1021/jm00296a042
		[XI] - F I Carroll ET AL, "Synthesis of 1,2-Disubstituted Naphth[1,2-d]imidazole-4,5-diones (1 a,b)", (19700101), page 207, URL: <a (20071221),="" *="" 1,2="" 1-[3-(diethylamino)propyl]-2,3-dihydro-2-[(3,4,5-trimethoxyphenyl)methyl]-="" 1-[3-(diethylamino)propyl]-2,3-dihydro-2-[(3,4,5-trimethoxyphenyl)methyl]-",="" 1h-naphth[1,2-d]imidazole-4,5-dione,="" 3-18<="" 959229-14-2,="" [a]="" [x]="" abstracts="" accession="" chemical="" columbus,="" database="" href="http://onlinelibrary.wiley.com/store/10.1002/jhet.5570070208/asset/5570070208_ftp.pdf?v=1&ts=2ki7iio&s=780813b1a68cf2da55b19b4a8f030d93f0c2ebc5, (20170511), XP055371996 [X] 1,2,4-6 * table III; compounds IIIa-IIIc * [I] 3,7-18</td></tr><tr><td></td><td></td><td>[XA] - " no.="" ohio,="" registry,="" service,="" td="" us,="" xp002770090="">
		[A] - CRIPPA G B ET AL, "The transformation of o-aminoazo derivatives into quinoxalines", GAZZETTA CHIMICA ITALIANA, SOCIETÀ CHIMICA ITALIANA, IT, (19300101), vol. 60, ISSN 0016-5603, pages 301 - 308, XP008184533 [A] 1-18 * (p-benzoylamino)phenyl)-H-Naphth[1,2-d]imidazole-4,5-dione *
		[A] - CRIPPA G B ET AL, "Oxidation of naphthoquinoxalines", GAZZETTA CHIMICA ITALIANA, SOCIETÀ CHIMICA ITALIANA, IT, (19340101), vol. 64, ISSN 0016-5603, pages 91 - 99, XP008184550 [A] 1-18 * compounds II, XIV *
	International search	[A]* JP2006135144 (SONY CORP) [X] - DAVID M.D. FOUCHARD ET AL., "Synthesis of Imidazo Analogues of the Oxidation-Reduction Cofactor Pyrroloquinoline Quinone (PQQ).", THE JOURNAL OF ORGANIC CHEMISTRY, (200404), vol. 69, no. 7, pages 2626 - 2629, XP055355565 DOI: ➤ http://dx.doi.org/10.1021/p035390x [X] - "National Center for Biotechnology Information.", PUBCHEM, (20071205), Database accession no. 21819810, XP055355571 [A] - AHMED MUSTAFA ET AL., "Photochemical Addition and Photochemical Dehydrogenation Reactions in Sunlight.", JOURNAL OF AMERICAN CHEMICAL SOCIETY, (1956), vol. 78, no. 17, pages 4306 - 4309, XP055355567 DOI: ➤ http://dx.doi.org/10.1021/ja01598a033

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1,2-NAPHTHOQUINONE BASED DERIVATIVE AND METHOD OF PREPARING THE SAME
LPP20172917US

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Available Documents

Mail Room Date	Document Code	Document Description	Document Category	Page Count	PDF
05-02-2018	ISSUE.NTF	Issue Notification	PROSECUTION	1	
04-23-2018	IFEE	Issue Fee Payment (PTO-85B)	PROSECUTION	1	
04-23-2018	WFEE	Fee Worksheet (SB06)	PROSECUTION	2	
04-23-2018	N417	EFS Acknowledgment Receipt	PROSECUTION	2	
01-24-2018	BIB	Bibliographic Data Sheet	PROSECUTION	1	
01-24-2018	IIFW	Issue Information including classification, examiner, name, claim, renumbering, etc.	PROSECUTION	3	
01-24-2018	INTV.SUM.EX	Examiner initiated interview summary (PTOL-413B)	PROSECUTION	1	
01-24-2018	NOA	Notice of Allowance and Fees Due (PTOL-85)	PROSECUTION	10	

ORBIT

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Search	Result(s)	Query	Assistant	Source	Action
28	0	(NAPHTHO[1,2-D])MIDAZOLE	Easy search	FAMPAT	Show results Modify Save Alert Delete
25	0	(NAPHTHO[1 OR 2-D])MIDAZOLE/TX/BI/SA/KEYWI/INPA	Easy search	FAMPAT	Show results Modify Save Alert Delete
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8	40143	6 AND 7	Search history	FAMPAT	Show results Modify Save Alert Delete
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5	1	((HERBICIDE/ITI/ABIW AND (PHENYL)/CLMS AND (PYRIDINYL)/CLMS AND (PYRIMIDINYL)/CLMS AND (CATECHOL)/DESC/ODES) AND PD <= 2014-07-14	Advanced search	FAMPAT	Show results Modify Save Alert Delete
4	0	((HERBICIDE/ITI AND (PHENYL)/CLMS AND (PYRIDINYL)/CLMS AND (PYRIMIDINYL)/CLMS AND (CATECHOL)/DESC/ODES) AND PD <= 2014-07-14	Advanced search	FAMPAT	Show results Modify Save Alert Delete
3	0	((HERBICIDE/ITI AND (PHENYL)/CLMS AND (PYRIDINYL)/CLMS AND (PYRIMIDINYL)/CLMS AND (CATECHOL)/DESC/ODES) AND PD <= 2014-07-14	Advanced search	FAMPAT	Show results Modify Save Alert Delete

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Legal status
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1st application year
After 2015
2011-2015
2006-2010
2001-2005
Before 2001
Assignee
Litigations
Oppositions

#	Title	Publication number	1st app. date	Applicant/Assignee	Litigation
(13)	1 Naphthoquinone glycoside compound, preparation method and use thereof	CN107501362	2017-07-18	UNIVERSITY N...	
(8)	2 Coumarin- or naphthoquinone-based compound preparing method and use thereof	KR20160013364	2016-07-29	EWHA WOMAN...	
(3)	3 1,2-naphthoquinone derivative and method for preparing same	WO2016159576	2016-03-23	KT & G LIFE SC...	
(6)	4 1,2-naphthoquinone derivative and method for preparing same	WO2016159577	2015-03-27	KT & G LIFE SC...	
(7)	5 1,2-naphthoquinone derivative and method for preparing same	CA2935319	2014-12-30	KATY & GEE LI...	
(5)	6 1,2-naphthoquinone derivative and method for preparing same	CA2935317	2014-12-30	KATY & GEE LI...	
(7)	7 1,2-naphthoquinone derivative and method for preparing same	KR20150030426	2014-12-30	KT & G LIFE SC...	
(0)	8 Pharmaceutical composition for the treatment or prevention of diseases involving obesity, diabetes, metabolic syndrome, neuro-degenerative diseases and mitochondria dysfunction diseases	US20130245111	2013-04-25	YUNGJIN PHA...	

Naphthoquinone glycoside compound, preparation method and use thereof

洋槐花(12.0kg)

90%乙醇

浸提(1.1kg)

混悬于水中

石油醚层 乙酸乙酯层 正丁醇层 水层

PTP1B抑制剂

活性部位 (乙酸乙酯层)

上柱硅胶柱(100-200目), 依次用石油醚-丙酮 =15:1→8:1→5:1→3:1梯度洗脱

A B C D

上柱硅胶柱(200-300目), 依次用石油醚-乙酸乙酯=10:1→6:1→4:1洗脱

B-1 B-2 B-3

上Sephadex LH-20柱.

STN

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1. 2015:1134902-1-1
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