

INFORME DE BÚSQUEDA DE PATENTES

N° de solicitud: NC20160003915

CRITERIOS PARA LA BÚSQUEDA (Anexar pantallazo o reporte en PDF, junto con los boléanos utilizados*. Para el caso de secuencias, anexar alineamientos)

PALABRAS CLAVE UTILIZADAS	Quinolone Polymerase OR Pol I Solicitante: PIMERA INC
CLASIFICACIONES UTILIZADAS PARA LA BÚSQUEDA	CIP: A61K31/4353; A61P35/00; C07D487/14 CPC:

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 o números de secuencias)	Categorías especiales de los documentos citados***
SIPI	----	----	----	----
Patbase*	WO2009046383	09/04/2009	1	Y
Epoquenet	CN101333212	31/12/2008	----	A
Espacenet	WO2008060693	22/05/2018	1	Y
	WO2007038215	05/04/2007	----	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.
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**** Indicar entre paréntesis la Autoridad que realizó la búsqueda o el informe preliminar Ejs: EPO, JP, INAPI.

Literatura no patente **Se incluye entre otros, toda la referencia de la literatura no patente.	* Hranjec M et al. “Benzimidazole derivatives related to 2,3-acrylonitriles, benzimidazo[1,2-a]quinolines and fluorenes: Synthesis, antitumor evaluation in vitro and crystal structure determination”, European Journal of Medicinal Chemistry, Vol 45(6), pp 2405-2417. (2010). ** Mogilaiah et al., “Synthesis of aza-fused polycyclic quinolines through copper catalyzed cascade reactions”. Organic Letters, vol. 12(7), pp 1500-1503, (2010).
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Fecha del reporte de búsqueda:	6/12/2018
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fivePoffices - CCD

Number: WO2015172123 Search examples: EP1612402, US2006000447A1, JP20090214944

WO2015US30046[®]

Hide CCD viewer Double inspector Timeline

CCD Viewer Export [also published as]

#	CC	Cat.	Citation details	Classifications & Fields searched	Biblio	Description	Claims	Original document
			USB6737529 B2 (WOLLER KEVIN R [US], et al) - 28 January 2014 US7998978 B2 (PFIZER [US]) - 16 August 2011 US818952 B2 (BRAGANA JOHN FREDERICK [US], et al) - 27 August 2013 US7816524 B2 (CYLENE PHARMACEUTICALS INC [US]) - 19 October 2010 <i>Non-patent literature</i> - Handbook of Pharmaceutical Salts: Properties, Selection and Use*, International Union of Pure and Applied Chemistry, WILEY-VCH, (2002), <i>Non-patent literature</i> - S.M. BERGE, L.D. BIGHLEY, D.C. MONKHOUSE, J. PHARMA. SCI., (1977), vol. 66, pages 1 - 19, <i>Non-patent literature</i> - Handbook of Pharmaceutical Salts: Properties, Selection and Use, WEINHEIM/ZURICH: WILEY-VCH/VNCA, (2002), <i>Non-patent literature</i> - JEAN JACQUES; ANDRE COLLET; SAMUEL H. WILEN, Enantiomers, Racemates and Resolutions, JOHN WILEY AND SONS, INC., (1981), <i>Non-patent literature</i> - Design of Prodrugs, ELSEVIER, (1985), <i>Non-patent literature</i> - Method in Enzymology, ACADEMIC, (1985), vol. 42, pages 309 - 396, <i>Non-patent literature</i> - "Design and Application of Prodrugs", BUNDGAARD, H., A Textbook of Drug Design and Development, (1991), pages 113 - 191, <i>Non-patent literature</i> - BUNDGAARD, H., ADVANCED DRUG DELIVERY REVIEW, (1992), vol. 8, pages 1 - 38,					

Simple families: 1/2 Total family members: 24/32 Get next family ↓

Internal - Current DB: EPODOC - Search Recording ON

File Edit PDB X-File Options Help

[SS 3] 1 and 2

Results in EPODOC 1

[SS 4] .li

1/1 EPODOC / EPO

PN - CN101333212 A 20081231

PR - CN2008121492 20080805

AP - CN2008121492 20080805

DT - I

PA - UNIV XUZHOU NORMAL [CN]

TI - Method for synthesizing triazabenzobenzofluorene-6- ketones derivatives

AB - The invention relates to a synthesis method for tri-aza-benzo (b) fluorene-6- ketone derivatives, in particular to a method for synthesizing tri-aza-benzo (b) fluorene-6- ketone derivatives in ionic liquid. The technical proposal of the invention is realized as follows: 1 mmol of 2-amino-benzimidazole, 1 mmol of aldehyde and 1 mmol of cyclic 1,3-dicarbonyl compound are added into 1-2 ml of ionic liquid and reacted for 5-6 hours at 80 DEG C so as to get the corresponding tri-aza-benzo (b) fluorene-6- ketone derivative. The method of the invention has easily available material, simple and secure operation, mild reaction conditions, high yield, simple post-treatment and high atom economy; besides, the ionic liquid can be reused and causes less pollution, so the method has great implementation value and potential social economic benefits.

[SS 4] quinolone

Results in EPODOC 3.688

[SS 5] polymerase

Results in EPODOC 27.267

[SS 6] Pol 2w 1

Results in EPODOC 114

[SS 7] Pol 2w 1

File: Internal Mode: Insert

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History - Internal

Database	SS	Status	Results	Query
EPODOC	1		16 TRIAZABENZO	
	2		3661 FLUORENE	
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	4		3668 QUINOLONE	
	5		27267 POLYMERASE	
	6		114 POL 2W 1	
	7		0 POL 2W 1	
	8		32 5 AND 6	
	9		0 4 AND 8	

☒ Keep dialog open ☐ Current Database ☐ Show metadata

☒ All Databases ☐ Expand rows (Cluster DBs)

Save as preparation Rank and View Send to Viewer Save as XFile Close Help

☐ Add to Current WL

Search page Lookup compounds Tools Help History

Chemical structure editor toolbar

Chemical structure: O=C1C2=CC=CC=C2N3C(=O)C4=CC=CC=C4N5C(=O)C6=CC=CC=C6N1C53

minesoft chemical explorer

Search type: Identity Similarity Substructure

Substructure search

Search options:

	Description
☐ Resonance	Returns molecules whose resonance forms contain the query molecule.
☐ Tautomer	Returns chemical structures that are tautomers of the provided chemical structure.

Return structures:

Filter by molecular weight: -

Filter by molecular formula: contains

☐ Found in claims ☒ All

Country:

Number of structures to return:

Search Clear

About Substructure search

Search History

#	Search query	Results	Options
3	[Chemical Explorer] Selected structures (30)	108	View Browse Hits Optimise more...
2	[Chemical Explorer] Selected structures (12)	8	View Browse Hits Optimise more...
1	[Chemical Explorer] Selected structures (231)	2	View Browse Hits Optimise more...

Information Shortcuts

Command Reference

- Bibliographic data
- Textual data
- Update commands
- Operators
- Navigation / shortcuts

PatBase - Search results 06 December 2018
Search query (2): [Chemical Explorer]: Selected structures (12)
Results: 8

Search history

Search 1: [Chemical Explorer]: Selected structures (231) (Results 2)
Search 2: [Chemical Explorer]: Selected structures (12) (Results 8)

Title: ANTIALLERGIC COMPOSITION FOR OPHTHALMIC OR NASAL USE

Abstract: There is disclosed an antiallergic composition for ophthalmic or nasal use, comprising cetirizine or a salt thereof as an active ingredient. The antiallergic composition may further contain a cyclodextrin compound, as well as a surfactant and/or a water soluble polymer.

Classifications:

International (IPC 8-9): A61F9/00 A61K31/00 A61K31/395 A61K31/435 A61K31/445 A61K31/495 A61K31/55 A61K47/40 A61K9/00 A61K9/08 A61P11/02 A61P21/02 A61P25/00 A61P25/08 A61P25/20 A61P25/22 A61P25/30 A61P27/02 A61P27/14 A61P37/08 A61P39/02 C07D295/08 C07D471/04

C07D487/04 (Advanced/Invention);

A61K31/435 A61K31/55 A61K9/08 A61P25/00 C07D295/08 (Advanced/Non-invention);

A61K31/495 A61K9/00 A61K9/08 A61P11/00 A61P27/00 A61P37/00 (Core/Invention);

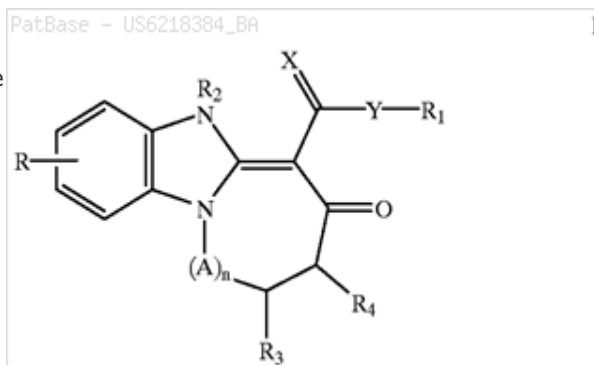
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International (IPC 1-7): A61K 47/48 A61K31/13 A61K31/395 A61K31/4184 A61K31/435 A61K31/44 A61K31/445 A61K31/495 A61K47/40 A61K47/48 A61K9/08 A61K9/12 A61P11/02 A61P27/02 A61P27/14 A61P37/08 C07D295/08 C07D471/04 C07D487/04

CPC: Y10S514/912 Y10S514/914 A61K31/495 A61K9/0043 A61K9/0048 C07D487/04 C07D471/04

European: A61K31/495 A61K9/00M14 A61K9/00M16 C07D471/04 C07D487/04

US: 424/78.04 514/214.02 514/292 514/912 514/914 540/579 546/86 546/87

**Family:**

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AT164068 E	19980415	AT19930310464T	19931223
AT197455 E	20001111	AT19930920193T	19930818
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Priority:

US19920932176 19920819	JP19920346031 19921225	WO1993US07794 19930818
JP19930312951 19931214	CA19932112014 19931221	US19950387720 19950216
US19970896301 19970630		

Probable Assignee: SOVEREIGN BANK

Assignee(s): (std): FARCHIM S A ; SENDZJU FARMAS JUTIKAL KO LTD ; MARYANOFF BRUCE E ; MCCOMSEY DAVID F ; ORTHO MCNEIL PHARM INC ; MCNEILAB INC ; SENJUPHARMACEUTICAL CO LTD ; SENJU PHARMA CO ; SENJU PHARMACUETICAL CO LTD ; SENJU CORP ; WINSTON HO

Assignee(s): BUSINESS ALLIANCE CAPITAL CORP ; SOVEREIGN BANK ; VXI CORP ; SENJU PHARMACEUT CO LTD ; TOKUMOCHI FUMINORI ; SENJU PHARMACUETICAL CO ; SENJU PHARMACEUTICAL CO ; SENJU PHARMACEUTICAL CO LTD ; SENJU PHARMACEUTICAL CO LTD OSAKA JP ; ORTHO MCNEIL PHARMACEUTICAL INC ; SALEM FIVE CENTS SAVINGS BANK ; OGAWA TAKAHIRO ; SAMESHIMA SHOGO ; KIMURA MOTOKO ; SENDZJU FARMAS JUTIKAL KO ; SENDZJU FARMAS'JUTIKAL KO., LTD. ; FARCHIM S A BULLE CH ; FARCHIM SA ; HO WINSTON ; IKEJIRI YOSHIFUMI

Inventor(s): (std): YOSHIFUMI IKEJIRI ; TOKUMOCHI FUMINORI ; TAKAHIRO OGAWA ; SHOGO SAMESHIMA ; SAMESHIMA SHOGO ; SAMEJIMA SHOGO ; OGAWA TAKAHIRO ; MOTOKO KIMURA ; KIMURA MOTOKOV ; KIMURA MOTOKO ; IKEJIRI YOSHIFUMI ; IKEJIRI YOHIFUMI ; FUMINORI TOKUMOCHI ; BRUCE E MARYANOFF ; DAVID F MCCOMSEY ; ESIFUMI IKEDZIRI ; FUMINORI TOKUMOTI ; MARYANOFF BRUCE ; MARYANOFF BRUCE E ; MARYANOFF E ; MCCOMSEY DAVID F ; MCCOMSEY F ; HO WINSTON ; SOGO SAMESIMA ; TAKAKHIRO OGAVA ; WINSTON HO

Inventor(s): YoshifumiOgawa ; TakahiroTokumochi ; Ikejiri ; Motoko ; ShogoKimura ; FuminoriSameshima ; TOKUMOCHI FUMINORI KOBE SHI HYOGO JP ; SAMESHIMA SHOGO KOBE SHI HYOGO JP ; OGAWA TAKAHIRO NISHINOMIYA SHI HYOGO JP ; KIMURA MOTOKO TAKARAZUKA SHI HYOGO JP ; IKEJIRI YOSHIFUMI IBARAKI SHI OSAKA JP

Agent(s): SHELSTON IP; SHELSTON IP PTY LTD; GRIFFITH HACK; FETHERSTONHAUGH AND CO; OGILVY RENAULT LLP SENCRL SRL; AOYAMA TAMOTSU; TANAKA MITSUO

Designated states: AT AU BB BE BF BG BJ BR BY CA CF CG CH CI CM CZ DE DK ES FI FR GA GB GN GR HU IE IT JP KP KR KZ LI LK LU MC MG ML MN MR MW NE NL NO NZ PL PT RO RU SD SE SK SN TD TG UA US VN

2) Family number: 29989564 (US5817668A)

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Title: S-heteroatom containing alkyl substituted-3-oxo-pyrido[1,2-A]benzimidazole-4-carboxamide derivatives useful in treating central nervous system disorders

Abstract: A compound of the general formula 1; (1) is disclosed as useful in treating disorders of the central nervous system. Pharmaceutical compositions and methods of treatment are also disclosed.

Classifications:

International (IPC 8-9): A61K31/435

A61K31/437 A61K31/496 A61K31/5377

A61P25/00 A61P25/02 A61P25/22 A61P25/30

C07D471/04 (Advanced/Invention);

A61K31/496 A61P25/00 (Advanced/Non-invention);

A61K31/00 (Core/Invention)

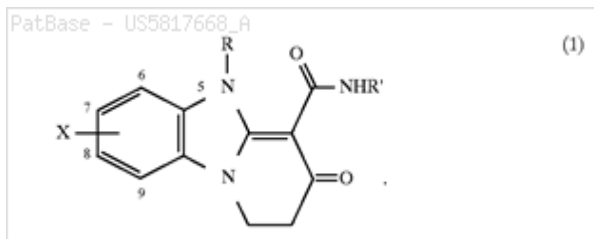
International (IPC 1-7): A61K31/415 A61K31/435 A61K31/437 A61K31/496 A61K31/535

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CPC: A61K31/437 C07D471/04

European: A61K31/437 C07D471/04

US: 514/233.2 514/253.03 514/292 544/126 544/361 546/86

**Family:**

Publication number	Publication date	Application number	Application date
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AU719333 B2	20000504	AU19970047473	19971003
CA2267943 AA	19990407	CA19972267943	19971003
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NZ335060 A	20000526	NZ19970335060	19971003
PT935598 T	20040331	PT19970909992T	19971003
SI0935598 T1	20040430	SI19970030620T	19971003
US5817668 A	19981006	US19970943578	19971003
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Priority:

US19960027511P 19961007

EP19970909992 19971003

US19970943578 19971003

WO1997US18045 19971003

Probable Assignee: ORTHO PHARMACEUTICAL CORP

Assignee(s): (std): ORTHO MCNEIL PHARM INC ; ORTHO PHARMA CORP

Assignee(s): ORTHO PHARMACEUTICAL CORP ; REITZ ALLEN B ; SANFILIPPO PAULINE J ; SCOTT MALCOLM K ; SMITH ANNA V ; ORTHO MCNEIL PHARMACEUTICAL INC ; JORDAN ALFONZO D ; MCNEILAB INC

Inventor(s): (std): REITZ ALLEN B ; REITZ B ; SANFILIPPO J ; SANFILIPPO PAULINE J ; SCOTT K ; SCOTT MALCOLM K ; SMITH ANNA V ; SMITH V ; VAVOUIYOS SMITH ANNA ; JORDAN ALFONZO D ; JORDAN D

Inventor(s): MALCOLM K SCOTT ; PAULINE J SANFILIPPO ; ALFONZO D JORDAN ; ALLEN B REITZ ; ANNA V SMITH

Agent(s): SHELSTON IP; SHELSTON IP PTY LTD; OGILVY RENAULT LLP SENCRL SRL

Designated states: AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CH CN CU CZ DE DK EE ES FI
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UA UG UZ VN ZW

3) Family number: 11277185 (US5922731A)

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Title: 5-[(heteroaryl)alkyl]-3-oxo-pyrido[1,2-a]benzimidazole-4-carboxamide derivatives useful in treating central nervous system disorders

Abstract: A compound of the general formula 1; is disclosed as useful in treating disorders of the central nervous system. Pharmaceutical compositions and methods of treatment are also disclosed.

Classifications:

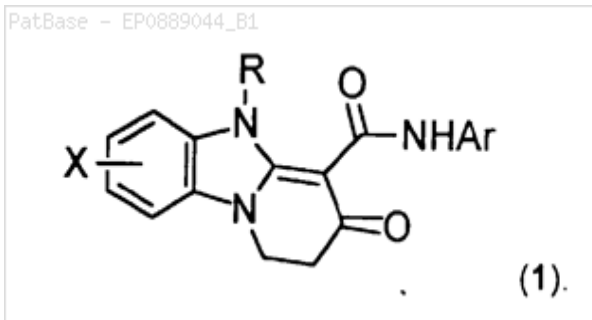
International (IPC 8-9): A61K31/435
A61K31/495 A61K31/53 A61K31/535 A61P25/00
C07D471/04 (Advanced/Invention);
A61K31/435 A61P25/00 (Advanced/Non-invention);
A61K31/435 A61P25/00
C07D471/00 (Core/Invention)

International (IPC 1-7): A61K31/41 A61K31/435 A61K31/44 A61K31/495 A61K31/53 A61K31/535
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C07D498/00 C07D513/00

CPC: C07D471/04

European: C07D471/04

US: 514/292 546/86

**Family:**

Publication number	Publication date	Application number	Application date
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WO9900389 A1	19990107	WO1998US10456	19980519

Priority:

US19970884804 19970630 WO1998US10456 19980519 CA19982242261 19980630

Probable Assignee: ORTHO PHARMACEUTICAL CORP

Assignee(s): (std): JOHNSON AND JOHNSON RES PTY LTD ; ORTHO MCNEIL PHARM INC ; ORTHO MCNEIL PHARMACEUT INC ; ORTHO PHARMA CORP

Assignee(s): ORTHO PHARMACEUTICAL CORP ; REITZ ALLEN B ; SANFILIPPO PAULINE J ; ORTHO MCNEIL PHARMACEUTICAL INC ; JOHNSON AND JOHNSON RESEARCH PTY LTD ; JORDAN ALFONZO D ; FITZPATRICK LOUIS J

Inventor(s): (std): FITZPATRICK LOUIS ; FITZPATRICK LOUIS J ; JORDAN ALFONZO D ; LOUIS J FITZPATRICK ; REITZ ALLEN B ; SANFILIPPO PAULINE J

Inventor(s): PAULINE J SANFILIPPO ; ALFONZO D JORDAN ; ALLEN B REITZ ; LOUIS FITZPATRICK

Agent(s): SHELSTON IP; SHELSTON IP PTY LTD; OGILVY RENAULT LLP SENCRL SRL

Designated states: AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CU CY CZ DE
DK EE ES FI FR GA GB GE GH GM GN GR HU IE IL IS IT JP KE KG KP KR KZ LC LI
LK LR LS LT LU LV MC MD MG MK ML MN MR MW MX NE NL NO NZ PL PT RO RU
SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT UA UG UZ VN YU ZW

Title: OXO-DIPYRIDOIMIDAZOLE-CARBOXAMIDES: GABA BRAIN RECEPTOR LIGANDS

Abstract: Disclosed are compounds of formula (I) or pharmaceutically acceptable non-toxic salts thereof wherein: (a) represents an optionally substituted nitrogen-containing ring system; R is defined herein; and G is an organic or inorganic group, which compounds are highly selective

agonists, antagonists or inverse agonists for GABA_A brain receptors or prodrugs of agonists, antagonists or inverse agonists for GABA_A brain receptors, and are therefore useful in the diagnosis and treatment of anxiety, Down Syndrome, sleep, cognitive and seizure disorders, depression, overdose with benzodiazepine drugs and for enhancement of alertness.

Classifications:**International (IPC 8-9):** C07D471/14 (Advanced/Invention);

C07D471/00 (Core/Invention)

International (IPC 1-7): A61K31/44 C07D221/00 C07D235/00 C07D471/14**CPC:** C07D471/14**European:** C07D471/14**Family:**

Publication number	Publication date	Application number	Application date
AU199926534 A1	19990823	AU19990026534	19990204
WO9940092 A1	19990812	WO1999US01688	19990204

Priority:

US19980018754 19980204 WO1999US01688 19990204

Probable Assignee: NEUROGEN CORP**Assignee(s):** (std): ALBAUGH PAMELA ; CURRIE KEVIN S ; HUTCHISON ALAN J ; NEUROGEN CORP ; SHAW KENNETH ; XIE LINGHONG**Inventor(s):** (std): ALBAUGH PAMELA ; CURRIE KEVIN S ; HUTCHISON ALAN J ; SHAW KENNETH ; XIE LINGHONG**Inventor(s):** ALAN J HUTCHISON ; KENNETH SHAW ; KEVIN S CURRIE ; LINGHONG XIE ; PAMELA ALBAUGH

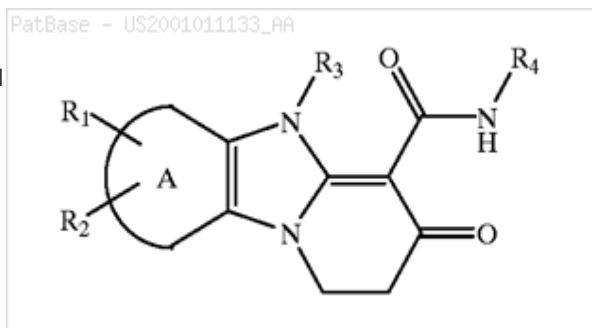
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5) Family number: 28129378 (US2001011133A)

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Title: Oxo-pyridoimidazole-carboxamides: GABA brain receptor ligands

Abstract: Disclosed are compounds of the formula: or the pharmaceutically acceptable non-toxic salts thereof where R₁-R₄ and A are defined herein, which compounds are highly selective agonists, antagonists or inverse agonists for GABA_A brain receptors or prodrugs of agonists, antagonists or inverse agonists for GABA_A brain receptors and are, therefore, useful in the diagnosis and treatment of anxiety, Down Syndrome, depression, sleep, cognitive and seizure disorders, overdose with benzodiazepine drugs and for enhancement of alertness.

**Classifications:**

International (IPC 8-9): A61K31/437 A61P25/22 A61P25/24 A61P25/30 A61P43/00 C07D221/00 C07D235/00 C07D471/04 (Advanced/Invention);

A61P43/00 (Advanced/Non-invention);

A61K31/4353 A61P25/00 A61P43/00 C07D471/00 (Core/Invention)

International (IPC 1-7): A61K31/437 A61K31/44 A61K31/497 A61K31/535 A61P25/22 A61P25/24 A61P25/30 A61P43/00 B29C65/02 C07D221/00 C07D235/00 C07D471/00 C07D471/04 C07D471/12 C07D491/00 C07D498/00 C07D513/00 C07D515/00 C07D71/00

CPC: C07D471/04

European: C07D471/04

US: 514/233.2 514/253.03 514/292 540/596 544/126 544/361 546/194 546/64 546/86 546/86P

Family:

Publication number	Publication date	Application number	Application date
AT300539 E	20050815	AT19990943913T	19990825
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AU199956911 A5	20000314	AU19990056911	19990825
CA2341531 AA	20010222	CA19992341531	19990825
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DE69926378 T2	20051229	DE19996026378T	19990825
EP1107966 A2	20010620	EP19990943913	19990825
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US6451809 BB	20020917	US20010761601	20010116
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Priority:

US19980097841P 19980825 US19980159362 19980923 US19990383297 19990825
WO1999US19400 19990825 US20010761601 20010116

Probable Assignee: NEUROGEN CORP

Assignee(s): (std): ALBAUGH PAMELA ; NEUROGEN CORP ; RACHWAL BOGUMILA ; SHAW KENNETH

Assignee(s): NEUROGEN CORP BRANFORD

Inventor(s): (std): ALBAUGH PAMELA ; RACHWAL BOGUMILA ; SHAW KENNETH

Inventor(s): BOGUMILA RACHWAL ; KENNETH SHAW ; PAMELA ALBAUGH

Agent(s): MBM INTELLECTUAL PROPERTY LAW LLP

Designated states: AE AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CR CU CY
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UZ VN YU ZA ZW

6) Family number: 20803615 (US6358946B)

© PatBase

Title: C-6 ring-substituted pyrido[1,2-a]benzimidazole derivatives useful in treating central nervous system disorders

Abstract: A C-6 ring-substituted pyrido[1,2-a]benzimidazole derivative of the formula: methods of preparation and pharmaceutical compositions containing a substituted pyrido[1,2-a]benzimidazole derivative as the active ingredient are disclosed. The substituted pyrido[1,2-a]benzimidazole derivatives are useful in the treatment of central nervous system disorders.

Classifications:

International (IPC 8-9): A61K31/437

A61K31/438 A61K31/496 A61P25/00 A61P25/08

A61P25/20 A61P25/22 A61P25/24 A61P25/32

A61P39/02 A61P43/00 C07D221/00 C07D235/00

C07D471/04 C07D519/00 (Advanced/Invention);

A61K31/438 A61K31/496 A61P25/00 A61P43/00 C07D221/00 C07D235/00

C07D519/00 (Advanced/Non-invention)

International (IPC 1-7): A61K31/404 A61K31/42 A61K31/435 A61K31/437 A61K31/438 A61K31/44

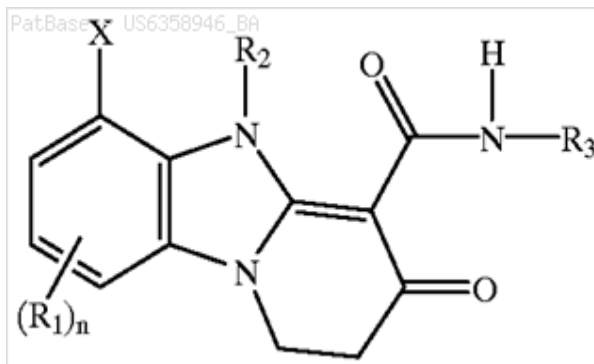
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CPC: C07D471/04

European: C07D471/04

US: 514/228.2 514/233.2 514/253.05 514/278 514/292 544/126 544/361 544/58.6 546/19 546/86

**Family:**

Publication number	Publication date	Application number	Application date
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AU200062289 A5	20010219	AU20000062289	20000720
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EP1200433 A1	20020502	EP20000948852	20000720
EP1200433 B1	20060322	EP20000948852	20000720
ES2260034 T3	20061101	ES20000948852T	20000720
JP2003506373 T2	20030218	JP20010514335T	20000720
MXPA02001308 A1	20040716	MX2002PA01308	20000720
TWI261590 B	20060911	TW20000115455	20001017
US6358946 BA	20020319	US20000619804	20000720
WO0109132 A1	20010208	WO2000US19882	20000720

Priority:

US19990146731 19990802

US19990146731P 19990802

US20000619804 20000719

WO2000US19882 20000720

Probable Assignee: ORTHO MCNEIL PHARMACEUTICAL INC

Assignee(s): (std): JOHNSON AND JOHNSON ; NORTEY SAMUEL O ; ORTHO MCNEIL PHARM INC ; ORTHO MCNEIL PHARMACEUTICAL INC ; REITZ ALLEN B ; SANFILIPPO PAULINE ; SCOTT MALCOLM K

Inventor(s): (std): NORTEY O ; NORTEY SAMUEL O ; PAULINE SANFILIPPO ; REITZ ALLEN B ; REITZ

B ; SAMUEL O NORTEY ; ALLEN B REITZ ; MALCOLM K SCOTT ; SANFILIPPO
PAULINE ; SCOTT K ; SCOTT MALCOLM K

Inventor(s): SANFILIPPO PAULIEN

Agent(s): SHELSTON IP; SHELSTON IP PTY LTD; OGILVY RENAULT LLP SENCRL SRL;
SARGENT

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CR
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MN MR MW MX MZ NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG
TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

Title: IMIDAZO[1,2-A]PYRIDINE DERIVATIVE

Abstract: [Problem] To provide a compound useful as medicine having PDE4B inhibitory activity, in particular, as an active ingredient of a composition for treating or preventing schizophrenia, Alzheimer's disease, dementia, depression and the like. [Measures for Solution] The present inventors examined compounds having PDE4B inhibitory activity and found that a tricyclic or tetracyclic imidazo[1,2-a]pyridine derivative or salts thereof had a superior PDE4B inhibitory activity, thereby completing the present invention. The imidazo[1,2-a]pyridine derivative can be used as an agent for treating or preventing schizophrenia, Alzheimer's disease, dementia, depression and the like.

Classifications:

International (IPC 8-9): A61K31/437 A61K31/438 A61K31/4545 A61K31/496 A61K31/5377 A61K31/55 A61K31/551 A61K31/553 A61P25/00 A61P25/18 A61P25/24 A61P25/28 A61P43/00 C07D C07D221/18 C07D221/22 C07D401/04 C07D471/00 C07D471/04 C07D487/00 C07D491/00 C07D491/147 C07D495/14 C07D498/00 C07D513/00 C07D515/00 C07D519/00 (Advanced/Invention); A61P25/18 A61P25/24 A61P25/28 (Advanced/Non-invention); A61K31/437 C07D471/04 (Core/Invention)

CPC: C07D495/14 C07D519/00 C07D211/48 C07D221/04 C07D471/08 C07D471/10 C07D471/14 C07D491/044 C07D471/04

European: C07D471/04 C07D495/14 C07D519/00

US: 514/210.18 514/211.15 514/217.07 514/218 514/233.2 514/253.02 514/278 514/281 514/285 514/287 514/292 540/492 540/544 540/575 540/597 544/125 544/361 546/16 546/43 546/61 546/64 546/70 546/85 546/87

Family:

Publication number	Publication date	Application number	Application date
AU2011246168 AA	20111103	AU20110246168	20110426
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CA2797762 AA	20111103	CA20112797762	20110426
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EA201291114 A1	20130430	EA20120091114	20110426
EP2565194 A1	20130306	EP20110774973	20110426
EP2565194 A4	20130911	EP20110774973	20110426
IL222682 A0	20130101	IL20110222682	20110426
IN09152CN2012 A	20140314	IN2012CN09152	20121026
JP2011136192 A1	20130718	JP20120512840T	20110426
JP5673676 B1	20150218	JP20120512840T	20110426
KR20130069646 A	20130626	KR20127030873	20110426
MX2012012531 A1	20130403	MX20120012531	20110426
TH127246 A	20130920	TH20121005661	20110426
TW201204721 A	20120201	TW20110114443	20110426
US2013053363 AA	20130228	US20120661601	20121026
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Priority:

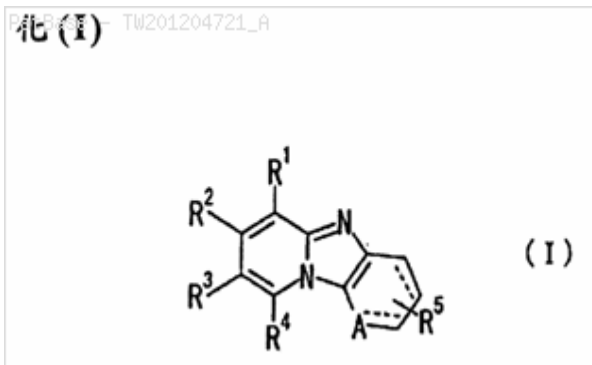
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WO2011JP60098 20110426

Probable Assignee: ASTELLAS PHARMA INC

Assignee(s): (std): IIKUBO KAZUHIKO ; KAWANO NORIYUKI ; KOGANEMARU YOHEI ; SAMIZU KIYOHIO ; NI KENI ; MITANI YASUYUKI ; OHMORI JUNYA ; MASUDA NAOYUKI



; ASTELLAS PHARMA INC

Assignee(s): N A

Inventor(s): (std): KAWANO NORIYUKI ; KOGANEMARU YOHEI ; MASUDA NAOYUKI ; MITANI YASUYUKI ; IIKUBO KAZUHIKO ; NI KENI ; OHMORI JUNYA ; SAMIZU KIIYOHIRO

Inventor(s): YASUYUKI MITANI ; YOHEI KOGANEMARU ; NORIYUKI KAWANO ; JUNYA OHMORI ; NAOYUKI MASUDA ; KAZUHIKO IIKUBO ; KENI NI ; KIIYOHIRO SAMIZU

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; DENNISON ASSOCIATES; HOFFMANN EITLE; MORITA HIROSHI; YANO EMIKO; SUZUKI YORIKO; OBLON SPIVAK MCCLELLAND MAIER AND NEUSTADT LLP; MORITA HIROSHI ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

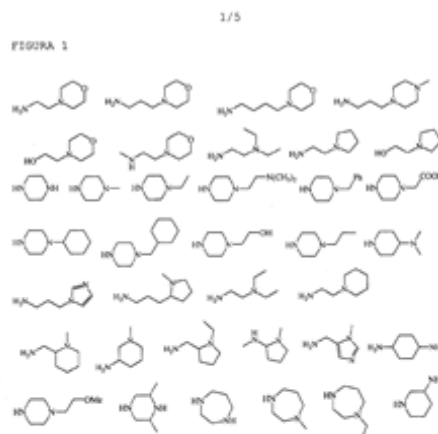
Title: NOVEL COMPOSITIONS, USES AND METHODS FOR MAKING THEM

Abstract: Generally, the present invention provides novel quinolone compounds and pharmaceutical composition thereof which may inhibit cell proliferation and/or induce cell apoptosis. The present invention also provides methods of preparing such compounds and compositions, and methods of making and using the same.

Classifications:

International (IPC 8-9): A61K A61K31/4353
A61K31/437 A61K31/4375 A61K31/4545
A61K31/4745 A61K31/496 A61K31/4985
A61K31/5025 A61K31/506 A61K31/519
A61K31/5377 A61K31/551 A61P A61P1/04
A61P1/16 A61P13/12 A61P17/00 A61P17/02
A61P17/06 A61P19/02 A61P21/04 A61P25/00
A61P29/00 A61P3/10 A61P35/00 A61P35/02
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C7D487/14 (Advanced/Invention);
A61K31/00 A61P35/00
C07D487/00 (Core/Invention);
A61P35/00 (Core/Non-invention)
CPC: C07D471/04 A61K31/437 A61K31/519
C07D471/14 C07D487/14
US: 514/218

PatBase - MX2017011116_A1

**Family:**

Publication number	Publication date	Application number	Application date
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AU2015255738 BB	20170427	AU20150255738	20150509
AU2015255738 CA	20170928	AU20150255738	20150509
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CA2974960 AA	20151112	CA20152974960	20150509
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CL2017000372 A1	20170908	CL20170000372	20170213
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Priority:

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Probable Assignee: PIMERA INC

Assignee(s): (std): HADDACH MUSTAPHA ; PIMERA INC
Assignee(s): PIMERA INC SAN DIEGO
Inventor(s): (std): HADDACH MUSTAPHA ; MUSTAPHA HADDACH ; HADDACH MUSTAPAH
Inventor(s): HADDACH MUSTAPHA SAN DIEGO
Agent(s): AJ PARK; RIDOUT AND MAYBEE LLP; GRAHAM ROBERT JOHN; ESTUDIO CLARKE
MODET AND CO CHILE LIMITADA; CLARKE MODET AND CO CHILE; CAROLINA
MERCEDES DAZA MONTALVO; DOMPATENT VON KREISLER SELTING WERNER
PARTNERSCHAFT VON PATENT U RECHTSANWAELTEN MBB; BARKER BRETTTELL
LLP; ATKINSON JENNIFER; LEHMANN MARIA ISABEL; CLT PATENT AND
TRADEMARK HK LTD; ADOLF MARTUA PANGGABEAN MAROLITA SETIATI;
SPRUSON AND FERGUSON ASIA PTE LTD; TOLGA CAYLAK; VENABLE LLP; TONI
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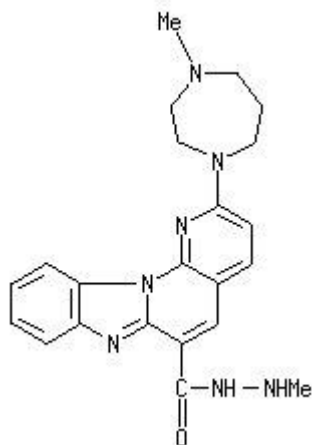
STNext Report

Title: NC20160003915

Date of search: 12/06/2018

Database info: CAPLUS, MARPAT, REGISTRY

L5 3 ANSWERS REGISTRY COPYRIGHT 2018 ACS on STN
 IN Benzimidazo[1,2-a][1,8]naphthyridine-6-carboxylic acid,
 2-(hexahydro-4-methyl-1H-1,4-diazepin-1-yl)-, 2-methylhydrazide



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L10 ANSWER 1 OF 5 MARPAT COPYRIGHT 2018 ACS on STN DUPLICATE 1
 L10 ANSWER 1 OF 5 MARPAT COPYRIGHT 2018 ACS on STN DUPLICATE 1
 L10 ANSWER 2 OF 5 MARPAT COPYRIGHT 2018 ACS on STN DUPLICATE 2
 L10 ANSWER 3 OF 5 MARPAT COPYRIGHT 2018 ACS on STN DUPLICATE 3
 L10 ANSWER 4 OF 5 MARPAT COPYRIGHT 2018 ACS on STN DUPLICATE 4

L10 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2018 ACS on STN
[PatentPak PDF](#) | [PatentPak PDF+](#) | [PatentPak Interactive](#)

TITLE: Novel crystal forms of a POL1 inhibitor
 ACCESSION NUMBER: 2018:1841623 CAPLUS [Full-text](#)
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 INVENTOR(S): Haddach, Mustapha
 PATENT ASSIGNEE(S): Pimera, Inc., USA
 DOCUMENT NUMBER: 169:434639
 FAMILY ACC. NUM. COUNT: 1
 SOURCE: PCT Int. Appl., 134pp.
 CODEN: PIXXD2

PATENTPAK PATENT INFORMATION:

PATENT NO.	KIND	DATE	LANGUAGE	PatentPak
WO 2018183540	A1	20181004	English	PDF PDF+ Interactive

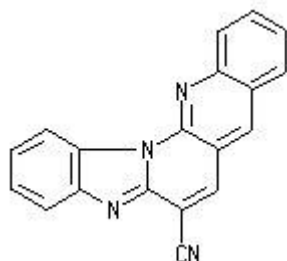
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2018183540	A1	20181004	WO 2018-US24898	20180328

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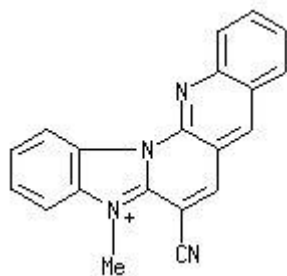
NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, SC,
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UA, UG, US, UZ, VC, VN, ZA, ZM, ZW
RW: AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR,
HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS,
SE, SI, SK, SM, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, KM,
ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW,
SD, SL, ST, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, RU, TJ, TM
PRIORITY APPLN. INFO.: US 2017-62477746 P 20170328
US 2017-62491635 P 20170428

L12 8 ANSWERS REGISTRY COPYRIGHT 2018 ACS on STN
IN Benzimidazo[1,2-a]benzo[g][1,8]naphthyridine-6-carbonitrile



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L12 8 ANSWERS REGISTRY COPYRIGHT 2018 ACS on STN
IN Benzimidazo[1,2-a]benzo[g][1,8]naphthyridinium, 6-cyano-5-methyl-



L12 8 ANSWERS REGISTRY COPYRIGHT 2018 ACS on STN
IN Benzimidazo[1,2-a][1,8]naphthyridine-6-carboxylic acid,
2-(4-methyl-1-piperazinyl)-, ethyl ester

TITLE: Preparation of novel quinolone compds. for inhibiting cell proliferation and/or inducing cell apoptosis

ACCESSION NUMBER: 2018:519687 CAPLUS [Full-text](#)
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 INVENTOR(S): Haddach, Mustapha
 PATENT ASSIGNEE(S): Pimera, Inc., USA
 DOCUMENT NUMBER: 168:367036
 FAMILY ACC. NUM. COUNT: 4
 SOURCE: U.S. Pat. Appl. Publ., 91pp., Cont.-in-part of Appl.
 No. PCT/US2015/030046.
 CODEN: USXXCO

PATENTPAK PATENT INFORMATION:

PATENT NO.	KIND	DATE	LANGUAGE	PatentPak
US 20180079750	A1	20180322	English	PDF PDF+ Interactive
WO 2015172123	A1	20151112	English	PDF PDF+ Interactive
CN 106995443	A	20170801	Chinese	PDF
EP 3219716	A1	20170920	English	PDF
US 20160257678	A1	20160908	English	PDF PDF+ Interactive
US 9758518	B2	20170912	English	PDF
WO 2016141042	A2	20160909	English	PDF
WO 2016141042	A3	20161103	English	PDF
CN 107567448	A	20180109	Chinese	PDF
JP 2018507230	T	20180315	Japanese	PDF
JP 2017101038	A	20170608	Japanese	PDF
US 20180291020	A1	20181011	English	PDF

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20180079750	A1	20180322	US 2017-15661770	20170727
CA 2974960	A1	20151112	CA 2015-2974960	20150509
WO 2015172123	A1	20151112	WO 2015-US30046	20150509
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CN 106995443	A	20170801	CN 2017-10268769	20150509
EP 3219716	A1	20170920	EP 2017-166200	20150509
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US 20160257678	A1	20160908	US 2015-14935155	20151106
US 9758518	B2	20170912		
CA 2978571	A1	20160909	CA 2016-2978571	20160302
WO 2016141042	A2	20160909	WO 2016-US20418	20160302
WO 2016141042	A3	20161103		
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 SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ,
 VC, VN, ZA, ZM, ZW
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 ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW,
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 CN 107567448 A 20180109 CN 2016-80022357 20160302
 JP 2018507230 T 20180315 JP 2017-546121 20160302
 EP 3300501 A2 20180404 EP 2016-759401 20160302
 R: AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR,
 HU, IE, IS, IT, LI, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO,
 RS, SE, SI, SK, SM, TR, BA, ME
 MX 2017011116 A 20180528 MX 2017-11116 20160302
 JP 2017101038 A 20170608 JP 2016-251010 20161226
 IN 201717031733 A 20171201 IN 2017-17031733 20170907
 US 20180291020 A1 20181011 US 2018-15864965 20180108
 PRIORITY APPLN. INFO.: US 2014-61991282 P 20140509
 US 2014-62050202 P 20140915
 US 2014-62054054 P 20140923
 US 2015-62128208 P 20150304
 WO 2015-US30046 A2 20150509
 US 2015-14935155 A3 20151106
 CA 2015-2948173 A3 20150509
 CN 2015-80031811 A3 20150509
 EP 2015-790016 A3 20150509
 JP 2016-575683 A3 20150509
 WO 2016-US20418 W 20160302
 US 2017-15485106 A1 20170411

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

L16 ANSWER 3 OF 16 CAPLUS COPYRIGHT 2018 ACS on STN
 TITLE: Synthesis and comparative solvatochromic studies of
 simple and donor acceptor benzimidazole incorporated
 naphthyridine systems
 ACCESSION NUMBER: 2018:210557 CAPLUS [Full-text](#)
 DOCUMENT TYPE: Journal; (online computer file)
 LANGUAGE: English
 AUTHOR(S): Mashraqui, Sabir H.; Britto, Smita; Mestri, Rupesh;
 Chilekar, Aniket; Upadhyay, Jyoti
 DOCUMENT NUMBER: 168:493839
 SOURCE: Indian Journal of Chemistry, Section B: Organic
 Chemistry Including Medicinal Chemistry (2017),
 56B(10), 1075-1081
 CODEN: IJSBDB; ISSN: 0975-0983
 URL: [http://nopr.niscair.res.in/bitstream/123456789/42941/1/IJCB56B\(10\)1075-1081.pdf](http://nopr.niscair.res.in/bitstream/123456789/42941/1/IJCB56B(10)1075-1081.pdf)
 PUBLISHER: National Institute of Science Communication and
 Information Resources
 CORPORATE SOURCE: Department of Chemistry, University of Mumbai, Mumbai,
 400 098, India

L16 ANSWER 4 OF 16 CAPLUS COPYRIGHT 2018 ACS on STN
 TITLE: Switching of Reaction Pathway from C-C Rollover to C-N
 Ring-Extension Annulation
 ACCESSION NUMBER: 2017:1641647 CAPLUS [Full-text](#)
 DOCUMENT TYPE: Journal; (online computer file)
 LANGUAGE: English

AUTHOR(S): Thenarukandiyil, Ranjeesh; Dutta, Champak; Choudhury, Joyanta
DOCUMENT NUMBER: 168:275754
SOURCE: Chemistry - A European Journal (2017), 23(61), 15529-15533
CODEN: CEUJED; ISSN: 0947-6539
PUBLISHER: Wiley-VCH Verlag GmbH & Co. KGaA
CORPORATE SOURCE: Organometallics and Smart Materials Laboratory, Department of Chemistry, Indian Institute of Science Education and Research Bhopal, Bhopal, 462 066, India

L16 ANSWER 5 OF 16 CAPLUS COPYRIGHT 2018 ACS on STN

[PatentPak PDF](#) | [PatentPak PDF+](#) | [PatentPak Interactive](#)

TITLE: Preparation of triazabenzofluorenes as anticancer agents and their compositions
ACCESSION NUMBER: 2016:1813152 CAPLUS [Full-text](#)
DOCUMENT TYPE: Patent
LANGUAGE: English
INVENTOR(S): Haddach, Mustapha
PATENT ASSIGNEE(S): Pimera, Inc, USA
DOCUMENT NUMBER: 165:584602
FAMILY ACC. NUM. COUNT: 4
SOURCE: U.S. Pat. Appl. Publ., 79 pp.
CODEN: USXXCO

PATENTPAK PATENT INFORMATION:

PATENT NO.	KIND	DATE	LANGUAGE	PatentPak
US 20160326176	A1	20161110	English	PDF PDF+ Interactive
US 9512123	B2	20161206	English	PDF
CN 106995443	A	20170801	Chinese	PDF
EP 3219716	A1	20170920	English	PDF
WO 2016141042	A2	20160909	English	PDF
WO 2016141042	A3	20161103	English	PDF
CN 107567448	A	20180109	Chinese	PDF
JP 2018507230	T	20180315	Japanese	PDF
JP 2017101038	A	20170608	Japanese	PDF
US 20170334905	A1	20171123	English	PDF
US 9951066	B2	20180424	English	PDF
US 20180291020	A1	20181011	English	PDF

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20160326176	A1	20161110	US 2015-14708230	20150509
US 9512123	B2	20161206		
CA 2974960	A1	20151112	CA 2015-2974960	20150509
SG 10201703658	A1	20170629	SG 2017-10201703658	20150509
CN 106995443	A	20170801	CN 2017-10268769	20150509
EP 3219716	A1	20170920	EP 2017-166200	20150509
R: AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LI, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR, BA, ME				
ZA 2016007573	A	20180530	ZA 2016-7573	20150509
ZA 2017003923	A	20180926	ZA 2017-3923	20150509
CA 2978571	A1	20160909	CA 2016-2978571	20160302
WO 2016141042	A2	20160909	WO 2016-US20418	20160302
WO 2016141042	A3	20161103		
W: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IR,				

IS, JP, KE, KG, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LU, LY, MA,
MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA,
PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, SC, SD, SE, SG, SK,
SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ,
VC, VN, ZA, ZM, ZW

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SE, SI, SK, SM, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, KM,
ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW,
SD, SL, ST, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, RU, TJ, TM

CN 107567448 A 20180109 CN 2016-80022357 20160302
JP 2018507230 T 20180315 JP 2017-546121 20160302
EP 3300501 A2 20180404 EP 2016-759401 20160302

R: AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR,
HU, IE, IS, IT, LI, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO,
RS, SE, SI, SK, SM, TR, BA, ME

MX 2017011116 A 20180528 MX 2017-11116 20160302
PH 12016502213 B1 20180912 PH 2016-12016502213 20161108
JP 2017101038 A 20170608 JP 2016-251010 20161226
US 20170334905 A1 20171123 US 2017-15485106 20170411
US 9951066 B2 20180424
IN 201717031733 A 20171201 IN 2017-17031733 20170907
US 20180291020 A1 20181011 US 2018-15864965 20180108

PRIORITY APPLN. INFO.:
US 2014-61991282 P 20140509
US 2014-62050202 P 20140915
US 2014-62054054 P 20140923
US 2015-62128208 P 20150304
CA 2015-2948173 A3 20150509
CN 2015-80031811 A3 20150509
EP 2015-790016 A3 20150509
JP 2016-575683 A3 20150509
US 2015-14708230 A1 20150509
US 2015-14935155 A1 20151106
WO 2016-US20418 W 20160302
US 2017-15485106 A1 20170411

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

L16 ANSWER 6 OF 16 CAPLUS COPYRIGHT 2018 ACS on STN

[PatentPak PDF](#) | [PatentPak PDF+](#) | [PatentPak Interactive](#)

TITLE: Preparation of 1,7,11b-triazabenzoc[fluorene
derivatives as cell proliferation inhibitors and/or
cell apoptosis inducers

ACCESSION NUMBER: 2016:1473338 CAPLUS [Full-text](#)

DOCUMENT TYPE: Patent

LANGUAGE: English

INVENTOR(S): Haddach, Mustapha

PATENT ASSIGNEE(S): Pimera, Inc., USA

DOCUMENT NUMBER: 165:353851

FAMILY ACC. NUM. COUNT: 4

SOURCE: U.S. Pat. Appl. Publ., 93pp., Cont.-in-part of Appl.
No. PCT/US2015/030046.
CODEN: USXXCO

PATENTPAK PATENT INFORMATION:

PATENT NO.	KIND	DATE	LANGUAGE	PatentPak
US 20160257678	A1	20160908	English	PDF PDF+ Interactive
US 9758518	B2	20170912	English	PDF
WO 2015172123	A1	20151112	English	PDF PDF+ Interactive
CN 106995443	A	20170801	Chinese	PDF

EP 3219716	A1	20170920	English	PDF
WO 2016141042	A2	20160909	English	PDF
WO 2016141042	A3	20161103	English	PDF
CN 107567448	A	20180109	Chinese	PDF
JP 2018507230	T	20180315	Japanese	PDF
JP 2017101038	A	20170608	Japanese	PDF
US 20170334905	A1	20171123	English	PDF
US 9951066	B2	20180424	English	PDF
US 20180079750	A1	20180322	English	PDF PDF+ Interactive
US 20180291020	A1	20181011	English	PDF

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20160257678	A1	20160908	US 2015-14935155	20151106
US 9758518	B2	20170912		
CA 2974960	A1	20151112	CA 2015-2974960	20150509
WO 2015172123	A1	20151112	WO 2015-US30046	20150509
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CN 106995443	A	20170801	CN 2017-10268769	20150509
EP 3219716	A1	20170920	EP 2017-166200	20150509
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CA 2978571	A1	20160909	CA 2016-2978571	20160302
WO 2016141042	A2	20160909	WO 2016-US20418	20160302
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CN 107567448	A	20180109	CN 2016-80022357	20160302
JP 2018507230	T	20180315	JP 2017-546121	20160302
EP 3300501	A2	20180404	EP 2016-759401	20160302
R:	AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LI, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR, BA, ME			
MX 2017011116	A	20180528	MX 2017-11116	20160302
JP 2017101038	A	20170608	JP 2016-251010	20161226

US 20170334905	A1	20171123	US 2017-15485106	20170411
US 9951066	B2	20180424		
US 20180079750	A1	20180322	US 2017-15661770	20170727
IN 201717031733	A	20171201	IN 2017-17031733	20170907
US 20180291020	A1	20181011	US 2018-15864965	20180108

PRIORITY APPLN. INFO.:

US 2015-62128208	P	20150304
WO 2015-US30046	A2	20150509
US 2014-61991282	P	20140509
US 2014-62050202	P	20140915
US 2014-62054054	P	20140923
CA 2015-2948173	A3	20150509
CN 2015-80031811	A3	20150509
EP 2015-790016	A3	20150509
JP 2016-575683	A3	20150509
US 2015-14708230	A1	20150509
US 2015-14935155	A1	20151106
WO 2016-US20418	W	20160302
US 2017-15485106	A1	20170411

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

L16 ANSWER 7 OF 16 CAPLUS COPYRIGHT 2018 ACS on STN

TITLE: Switching of "Rollover Pathway" in Rhodium(III)-Catalyzed C-H Activation of Chelating Molecules

ACCESSION NUMBER: 2015:2088871 CAPLUS [Full-text](#)

DOCUMENT TYPE: Journal; (online computer file)

LANGUAGE: English

AUTHOR(S): Ghorai, Debasish; Dutta, Champak; Choudhury, Joyanta

DOCUMENT NUMBER: 164:187641

SOURCE: ACS Catalysis (2016), 6(2), 709-713
CODEN: ACCACS; ISSN: 2155-5435

PUBLISHER: American Chemical Society

CORPORATE SOURCE: Organometallics and Smart Materials Laboratory,
Department of Chemistry, Indian Institute of Science
Education and Research Bhopal, Bhopal, 462 066, India

L16 ANSWER 8 OF 16 CAPLUS COPYRIGHT 2018 ACS on STN

[PatentPak PDF](#) | [PatentPak PDF+](#) | [PatentPak Interactive](#)

TITLE: Preparation of novel triazabenzofluorene compounds as antitumor agents

ACCESSION NUMBER: 2015:1801617 CAPLUS [Full-text](#)

DOCUMENT TYPE: Patent

LANGUAGE: English

INVENTOR(S): Haddach, Mustapha

PATENT ASSIGNEE(S): USA

DOCUMENT NUMBER: 163:702447

FAMILY ACC. NUM. COUNT: 4

SOURCE: PCT Int. Appl., 128pp.
CODEN: PIXXD2

PATENTPAK PATENT INFORMATION:

PATENT NO.	KIND	DATE	LANGUAGE	PatentPak
WO 2015172123	A1	20151112	English	PDF PDF+ Interactive
KR 2016144509	A	20161216	Korean	PDF
KR 1890505	B1	20180928	Korean	PDF
CN 106459068	A	20170222	Chinese	PDF
EP 3140305	B1	20180418	English	PDF
KR 2017042821	A	20170419	Korean	PDF
JP 2017514889	T	20170608	Japanese	PDF

JP 6188179	B2	20170830	Japanese	PDF
CN 106995443	A	20170801	Chinese	PDF
EP 3219716	A1	20170920	English	PDF
ES 2679628	T3	20180829	Spanish	PDF
KR 2018118806	A	20181031	Korean	PDF
US 20160257678	A1	20160908	English	PDF PDF+ Interactive
US 9758518	B2	20170912	English	PDF
WO 2016141042	A2	20160909	English	PDF
WO 2016141042	A3	20161103	English	PDF
CN 107567448	A	20180109	Chinese	PDF
JP 2018507230	T	20180315	Japanese	PDF
JP 2017101038	A	20170608	Japanese	PDF
US 20180079750	A1	20180322	English	PDF PDF+ Interactive
US 20180291020	A1	20181011	English	PDF

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 2015172123	A1	20151112	WO 2015-US30046	20150509
W: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IR, IS, JP, KE, KG, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
RW: AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, KM, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, ST, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, RU, TJ, TM				
CA 2948173	A1	20151112	CA 2015-2948173	20150509
CA 2948173	C	20180619		
CA 2974960	A1	20151112	CA 2015-2974960	20150509
AU 2015255738	A1	20161124	AU 2015-255738	20150509
AU 2015255738	B2	20170427		
KR 2016144509	A	20161216	KR 2016-7033915	20150509
KR 1890505	B1	20180928		
IL 248638	A	20161229	IL 2015-248638	20150509
CN 106459068	A	20170222	CN 2015-80031811	20150509
EP 3140305	A1	20170315	EP 2015-790016	20150509
EP 3140305	B1	20180418		
R: AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LI, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR, BA, ME				
KR 2017042821	A	20170419	KR 2017-7009732	20150509
JP 2017514889	T	20170608	JP 2016-575683	20150509
JP 6188179	B2	20170830		
SG 10201703658	A1	20170629	SG 2017-10201703658	20150509
NZ 725917	A	20170728	NZ 2015-725917	20150509
CN 106995443	A	20170801	CN 2017-10268769	20150509
EP 3219716	A1	20170920	EP 2017-166200	20150509
R: AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LI, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR, BA, ME				
ZA 2016007573	A	20180530	ZA 2016-7573	20150509
ES 2679628	T3	20180829	ES 2015-790016	20150509
ZA 2017003923	A	20180926	ZA 2017-3923	20150509
KR 2018118806	A	20181031	KR 2018-7030648	20150509

US 20160257678	A1	20160908	US 2015-14935155	20151106
US 9758518	B2	20170912		
CA 2978571	A1	20160909	CA 2016-2978571	20160302
WO 2016141042	A2	20160909	WO 2016-US20418	20160302
WO 2016141042	A3	20161103		
W: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IR, IS, JP, KE, KG, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
RW: AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, KM, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, ST, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, RU, TJ, TM				
CN 107567448	A	20180109	CN 2016-80022357	20160302
JP 2018507230	T	20180315	JP 2017-546121	20160302
EP 3300501	A2	20180404	EP 2016-759401	20160302
R: AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LI, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR, BA, ME				
MX 2017011116	A	20180528	MX 2017-11116	20160302
MX 2016014555	A	20170530	MX 2016-14555	20161107
PH 12016502213	B1	20180912	PH 2016-12016502213	20161108
IN 201617039868	A	20170310	IN 2016-17039868	20161122
JP 2017101038	A	20170608	JP 2016-251010	20161226
AU 2017202145	A1	20170420	AU 2017-202145	20170331
AU 2017203955	A1	20170706	AU 2017-203955	20170613
US 20180079750	A1	20180322	US 2017-15661770	20170727
IN 201717031733	A	20171201	IN 2017-17031733	20170907
US 20180291020	A1	20181011	US 2018-15864965	20180108
PRIORITY APPLN. INFO.:			US 2014-61991282	P 20140509
			US 2014-62050202	P 20140915
			US 2014-62054054	P 20140923
			US 2015-62128208	P 20150304
			AU 2015-255738	A3 20150509
			CA 2015-2948173	A3 20150509
			CN 2015-80031811	A3 20150509
			EP 2015-790016	A3 20150509
			JP 2016-575683	A3 20150509
			KR 2016-7033915	A3 20150509
			KR 2017-7009732	A3 20150509
			WO 2015-US30046	W 20150509
			US 2015-14935155	A3 20151106
			WO 2016-US20418	W 20160302
			US 2017-15485106	A1 20170411

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

L16 ANSWER 9 OF 16 CAPLUS COPYRIGHT 2018 ACS on STN
 TITLE: Synthesis of new fused penta- and hexacyclic polynitrogen systems from 1H-benzimidazol-2-ylacetonitrile
 ACCESSION NUMBER: 2014:257139 CAPLUS [Full-text](#)
 DOCUMENT TYPE: Journal; (online computer file)
 LANGUAGE: English
 AUTHOR(S): Harutyunyan, A. A.

DOCUMENT NUMBER: 160:295001
SOURCE: Russian Journal of Organic Chemistry (2014), 50(1), 148-149
CODEN: RJOCEQ; ISSN: 1070-4280
PUBLISHER: SP MAIK Nauka/Interperiodica
CORPORATE SOURCE: Mndzhoyan Institute of Fine Organic Chemistry, Research Technological Center of Organic and Pharmaceutical Chemistry, National Academy of Sciences of Armenia, Yerevan, 0014, Armenia

L16 ANSWER 10 OF 16 CAPLUS COPYRIGHT 2018 ACS on STN
TITLE: Interaction of 2-chloroquinoline-3-carbaldehydes with 2-hetarylacetonitriles
ACCESSION NUMBER: 2010:405037 CAPLUS [Full-text](#)
DOCUMENT TYPE: Journal
LANGUAGE: English
AUTHOR(S): Volovnenko, T. A.; Tarasov, A. V.; Zubatyuk, R. I.; Shishkin, O. V.; Turov, A. V.; Volovenko, Yu. M.
DOCUMENT NUMBER: 153:333941
SOURCE: Chemistry of Heterocyclic Compounds (New York, NY, United States) (2009), 45(12), 1489-1502
CODEN: CHCCAL; ISSN: 0009-3122
PUBLISHER: Springer
CORPORATE SOURCE: Chemical Faculty, Department of Organic Chemistry, Kiev T. Shevchenko National University, Kiev, 01601, Ukraine

L16 ANSWER 11 OF 16 CAPLUS COPYRIGHT 2018 ACS on STN
TITLE: Synthesis of Aza-Fused Polycyclic Quinolines through Copper-Catalyzed Cascade Reactions
ACCESSION NUMBER: 2010:261305 CAPLUS [Full-text](#)
DOCUMENT TYPE: Journal
LANGUAGE: English
AUTHOR(S): Cai, Qian; Li, Zhengqiu; Wei, Jiajia; Fu, Liangbin; Ha, Chengyong; Pei, Duanqing; Ding, Ke
DOCUMENT NUMBER: 152:405636
SOURCE: Organic Letters (2010), 12(7), 1500-1503
CODEN: ORLEF7; ISSN: 1523-7060
PUBLISHER: American Chemical Society
CORPORATE SOURCE: Key Laboratory of Regenerative Biology and Institute of Chemical Biology, Guangzhou Institute of Biomedicine and Health, Chinese Academy of Sciences, Guangzhou, 510530, Peop. Rep. China

L16 ANSWER 12 OF 16 CAPLUS COPYRIGHT 2018 ACS on STN
TITLE: 14-(2,3-Dichlorophenyl)-9,10-dimethylbenzimidazo[1,2-a]benzo[f][1,8]naphthyridine-6-carbonitrile
ACCESSION NUMBER: 2009:404046 CAPLUS [Full-text](#)
DOCUMENT TYPE: Journal; (online computer file)
LANGUAGE: English
AUTHOR(S): Tarasov, Andrii V.; Volovnenko, Tatyana A.; Zubatyuk, Roman I.; Shishkin, Oleg V.; Volovenko, Yulian M.
DOCUMENT NUMBER: 152:442556
SOURCE: Acta Crystallographica, Section E: Structure Reports Online (2009), 65(4), o792
CODEN: ACSEBH; ISSN: 1600-5368
URL: <http://journals.iucr.org/e/issues/2009/04/00/sj2589/sj2589.pdf>
PUBLISHER: International Union of Crystallography

CORPORATE SOURCE: Department of Chemistry, National Taras Shevchenko University, Kiev, 01601, Ukraine

L16 ANSWER 13 OF 16 CAPLUS COPYRIGHT 2018 ACS on STN
TITLE: Intramolecular nucleophilic substitution in a series of 3-chloroisoquinolines
ACCESSION NUMBER: 2006:819199 CAPLUS [Full-text](#)
DOCUMENT TYPE: Journal
LANGUAGE: Russian
AUTHOR(S): Volovnenko, T. A.; Tarasov, A. V.; Volovenko, Yu. M.
DOCUMENT NUMBER: 145:471448
SOURCE: Ukrainskii Khimicheskii Zhurnal (Russian Edition) (2006), 72(7-8), 108-111
CODEN: UKZHAI; ISSN: 0041-6045
PUBLISHER: Institut Obshchei i Neorganicheskoi Khimii im. V. I. Vernadskogo NAN Ukrainy
CORPORATE SOURCE: Kiev. Nats. Univ. im. T. Shevchenko, Kiev, Ukraine

L16 ANSWER 14 OF 16 CAPLUS COPYRIGHT 2018 ACS on STN
TITLE: The reaction of S-alkyl salts of condensed azahetarenopyridines containing an angular nitrogen atom
ACCESSION NUMBER: 1990:216778 CAPLUS [Full-text](#)
DOCUMENT TYPE: Journal
LANGUAGE: Russian
AUTHOR(S): Babichev, F. S.; Volovenko, Yu. M.; Nemazanyi, A. G.; Nema, Bushra
DOCUMENT NUMBER: 112:216778
SOURCE: Ukrainskii Khimicheskii Zhurnal (Russian Edition) (1989), 55(8), 839-41
CODEN: UKZHAI; ISSN: 0041-6045
CORPORATE SOURCE: Kiev. Gos. Univ., Kiev, USSR

L16 ANSWER 15 OF 16 CAPLUS COPYRIGHT 2018 ACS on STN
TITLE: Unexpected O → N-migration of methyl group in 5-methoxy-6-cyanobenzimidazo[1,2-a][1,8]naphthyridine
ACCESSION NUMBER: 1989:632672 CAPLUS [Full-text](#)
DOCUMENT TYPE: Journal
LANGUAGE: Russian
AUTHOR(S): Babichev, F. S.; Volovenko, Yu. M.; Nemazanyi, A. G.
DOCUMENT NUMBER: 111:232672
SOURCE: Khimiya Geterotsiklicheskikh Soedinenii (1989), (2), 273-4
CODEN: KGSSAQ; ISSN: 0453-8234
CORPORATE SOURCE: Kiev. Gos. Univ., Kiev, 252601, USSR

L16 ANSWER 16 OF 16 CAPLUS COPYRIGHT 2018 ACS on STN
TITLE: Synthesis of 1,2-fused benzimidazo heterocycles from benzimidazole-2-acetonitrile and heterocyclic ortho-chloroaldehydes
ACCESSION NUMBER: 1987:424796 CAPLUS [Full-text](#)
DOCUMENT TYPE: Journal
LANGUAGE: English
AUTHOR(S): Gokhale, U. V.; Seshadri, S.
DOCUMENT NUMBER: 107:24796
SOURCE: Dyes and Pigments (1987), 8(2), 157-63
CODEN: DYPIDJ; ISSN: 0143-7208
CORPORATE SOURCE: Dep. Chem. Technol., Univ. Bombay, Bombay, 400 019, India

