Electronic A	Acknowledgement Receipt
EFS ID:	16459463
Application Number:	13954834
International Application Number:	
Confirmation Number:	1155
Title of Invention:	METHOD OF CANCER TREATMENT WITH 2-(1H-INDOLE-3-CARBONYL)- THIAZOLE-4-CARBOXYLIC ACID METHYL ESTER
First Named Inventor/Applicant Name:	Jiasheng Song
Customer Number:	32885
Filer:	Cong Ding/Francine VanAelst
Filer Authorized By:	Cong Ding
Attorney Docket Number:	18806N/130561C
Receipt Date:	30-JUL-2013
Filing Date:	
Time Stamp:	19:53:21
Application Type:	Utility under 35 USC 111(a)

Payment information:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)			
File Listing:								
Authorized Us	Authorized User							
Deposit Acco	unt							
RAM confirma	ition Númber	6536	6536					
Payment was	successfully received in RAM	\$730						
Payment Type	9	Credit Card						
Submitted with Payment yes								

	T	1	T		1	
1	Application Data Sheet	aia0014.pdf	1503673	no	6	
_			a33cf6e92263546e63491ab67d53a6d6d11 bdb97			
Warnings:				- <u></u>		
Information	:				" <u></u>	
2	Information Disclosure Statement (IDS)	updated_IDS.pdf	613933	no	5	
	Form (SB08)		f49278da6325c9a75dc19729c37a7a5lf944c 9bb			
Warnings:						
Information	:					
3		SONG_CIP_utility_application_ cancer_treatment_using_ITE	1337699	yes	37	
5		pdf	209b33d0aa4299941ee97ee8dfb1571da4b Scafb	,	57	
Multipart Description/PDF files in .zip description						
	Document Description Start					
	Specificat	ion	1	3	32	
	Claims		33	36		
	Abstrac	t	37	37		
Warnings:	an an ann an Ann Ann Ann Ann Ann Ann Ann			· · · · · · · · · · · · · · · · · · ·		
Information:						
4	Drawings-only black and white line	SONG_CIP_Drawings.PDF	164446	no	2	
. [drawings		87350b86817a83e8292c59998ec0c8a97od 952f0	1 1		
Warnings:						
Information:						
5	Fee Worksheet (SB06)	fee-info.pdf	33114	no	2	
, 		ice moipui	cb550a3a3cef7e8fb82b4b0209c8ca0b5550 5e96			
Warnings:						
Information:						
		Total Files Size (in bytes):	365.			

.

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	18806N/130561C
		Application Number	
Title of Invention	Method of Cancer Treatment	with 2-(1H-Indole-3-Carbonyl)-T	hiazole-4-Carboxylic Acid Methyl Ester
bibliographic data arrar	nged in a format specified by the Uni	ited States Patent and Trademark O	being submitted. The following form contains the office as outlined in 37 CFR 1.76. rmat using the Electronic Filing System (EFS) or the

Secrecy Order 37 CFR 5.2

document may be printed and included in a paper filed application,

Portions or all of the application associated with this Application Data Sheet may fall under a Secrecy Order pursuant to 37 CFR 5.2 (Paper filers only. Applications that fall under Secrecy Order may not be filed electronically.)

Inventor Information:

Inventor 1							emove		
Legal I	Name								
Prefix	Given Name)	Middle Name	9		Family	/ Name		Suffix
	Jiasheng					Song			
Resid	ence Informa	tion (Select One)	US Residency	\bigcirc	Non US Re	sidency	O Activ	e US Military Service	1
City	Madison		State/Province	WI	Count	y of Res	idence	US	
								•	
Mailing	Address of Ir	ventor:							
Addres	ss 1	7880 Wood R	eed Drive				<u> </u>		
Addres	ss 2								
City	Madisor	n	· · · · · · · · · · · · · · · · · · ·	5	State/Prov	/ince	WI		
Postal	Code	53719		Count	ry i	US		<u> </u>	
		Be Listed - Additi form by selecting th		ormatior) blocks	may be		Add	

Correspondence Information:

Enter either Customer Number or complete the Correspondence Information section below. For further information see 37 CFR 1.33(a).						
An Address is being provided for the correspondence Information of this application.						
Customer Number 32885						
Email Address	Add Email Remove Em	all				

Application Information:

Title of the Invention	Method of Cancer Treatment with 2-(1H-Indole-3-Carbonyl)-Thiazole-4-Carboxylic Acid Methyl Ester				
Attorney Docket Number	18806N/130561C Small Entity Status Claimed				
Application Type	Nonprovisional				
Subject Matter	Utility				
Total Number of Drawing Sheets (if any)		Suggested Figure for Publication (if any)			

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	18806N/130561C
Application Data Sheet S7 CFR 1.76	Application Number	

Title of Invention Method of Cancer Treatment with 2-(1H-Indole-3-Carbonyl)-Thiazole-4-Carboxylic Acid Methyl Ester

Publication Information:

Request Early Publication (Fee required at time of Request 37 CFR 1.219)	

Request Not to Publish. I hereby request that the attached application not be published under 35 U.S.C. 122(b) and certify that the invention disclosed in the attached application has not and will not be the subject of an application filed in another country, or under a multilateral international agreement, that requires publication at eighteen months after filing.

Representative Information:

Representative information should be provided for all practitioners having a power of attorney in the application. Providing this information in the Application Data Sheet does not constitute a power of attorney in the application (see 37 CFR 1.32). Either enter Customer Number or complete the Representative Name section below. If both sections are completed the customer Number will be used for the Representative Information during processing.

Please Select One:	Customer Number	US Patent Practitioner	Limited Recognition (37 CFR 11.9)
Customer Number	32885		

Domestic Benefit/National Stage Information:

This section allows for the applicant to either claim benefit under 35 U.S.C. 119(e), 120, 121, or 365(c) or indicate National Stage entry from a PCT application. Providing this information in the application data sheet constitutes the specific reference required by 35 U.S.C. 119(e) or 120, and 37 CFR 1.78.

Prior Application Status	Pending		Remove
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)
	Continuation in part of	13503657	2012-04-24
Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)
13503657	a 371 of international	PCT/US10/52729	2010-10-14
Prior Application Status	Expired		Remove
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)
PCT/US10/52729	non provisional of	61257422	2009-11-02

Additional Domestic Benefit/National Stage Data may be generated within this form by selecting the **Add** button.

Foreign Priority Information:

PTO/AIA/14 (03-13) Approved for use through 01/31/2014, OMB 0651-0032 U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to				1	
Under the Paperwork Reduction Act of 1995, no bersons are reduired to respond to	o a collectio	n of information	NUNIESS IT CONT	ains a valid OMP	CONTROL NUMBER

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	18806N/130561C
Application Da		Application Number	
Title of Invention	Method of Cancer Treatment	with 2-(1H-Indole-3-Carbonyl)-T	hiazole-4-Carboxylic Acid Methyl Ester

This section allows for the applicant to claim priority to a foreign application. Providing this information in the application data sheet constitutes the claim for priority as required by 35 U.S.C. 119(b) and 37 CFR 1.55(d). When priority is claimed to a foreign application that is eligible for retrieval under the priority document exchange program (PDX)¹ the information will be used by the Office to automatically attempt retrieval pursuant to 37 CFR 1.55(h)(1) and (2). Under the PDX program, applicant bears the ultimate responsibility for ensuring that a copy of the foreign application is received by the Office from the participating foreign intellectual property office, or a certified copy of the foreign priority application is filed, within the time period specified in 37 CFR 1.55(g)(1).

			Remove
Application Number	Country ⁱ	Filing Date (YYYY-MM-DD)	Access Code ⁱ (if applicable)
Additional Foreign Priority Dat Add button.	a may be generated	I within this form by selecting the	

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications

This application (1) claims priority to or the benefit of an application filed before March 16, 2013 and (2) also contains, or contained at any time, a claim to a claimed invention that has an effective filing date on or after March 16, 2013.

Authorization to Permit Access:

Authorization to Permit Access to the Instant Application by the Participating Offices

If checked, the undersigned hereby grants the USPTO authority to provide the European Patent Office (EPO), the Japan Patent Office (JPO), the Korean Intellectual Property Office (KIPO), the World Intellectual Property Office (WIPO), and any other intellectual property offices in which a foreign application claiming priority to the instant patent application is filed access to the instant patent application. See 37 CFR 1.14(c) and (h). This box should not be checked if the applicant does not wish the EPO, JPO, KIPO, WIPO, or other intellectual property office in which a foreign application claiming priority to the instant patent application is filed to have access to the instant patent application.

In accordance with 37 CFR 1.14(h)(3), access will be provided to a copy of the instant patent application with respect to: 1) the instant patent application-as-filed; 2) any foreign application to which the instant patent application claims priority under 35 U.S.C. 119(a)-(d) if a copy of the foreign application that satisfies the certified copy requirement of 37 CFR 1.55 has been filed in the instant patent application; and 3) any U.S. application-as-filed from which benefit is sought in the instant patent application.

In accordance with 37 CFR 1.14(c), access may be provided to information concerning the date o f filing this Authorization.

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	18806N/130561C	
		Application Number		
Title of Invention	Method of Cancer Treatment	with 2-(1H-Indole-3-Carbonyl)-T	hiazole-4-Carboxylic Acid Methyl Ester	

Applicant Information:

Providing assignment inform to have an assignment reco			for compliance with any	requirement of part 3 of Title 37 of CFR
Applicant 1				· · ·
The information to be provide 1.43; or the name and addres who otherwise shows sufficier applicant under 37 CFR 1.46	d in this sect s of the assig nt proprietary (assignee, po	ion is the name and address gnee, person to whom the in interest in the matter who is erson to whom the inventor i	of the legal representativentor is under an oblig wentor is under an oblig the applicant under 37 is obligated to assign, o), this section should not be completed. ative who is the applicant under 37 CFR gation to assign the invention, or person 7 CFR 1.46. If the applicant is an or person who otherwise shows sufficient ors who are also the applicant should be
Assignee Legal Representative under 35 U.S.C				 Joint Inventor
O Person to whom the invent	or is obligate	d to assign.	Person who sho	ows sufficient proprietary interest
If applicant is the legal repr	esentative,	indicate the authority to f	ile the patent applicat	tion, the inventor is:
Name of the Deceased or	Legally Inca	pacitated Inventor :		
If the Applicant is an Orga	nization ch	eck here.		
Organization Name A	hR Pharmac	euticals, Inc.		
Mailing Address Informa	tion For A	pplicant:		
Address 1	7880 Woo	od Reed Drive		
Address 2				
City	Madison		State/Province	WI
Country US			Postal Code	53719
Phone Number			Fax Number	
Email Address			<u></u>	
Additional Applicant Data m	ay be gene	rated within this form by s	selecting the Add but	ton.

Non-Applicant Assignee Information:

Providing assignment information in this section does not subsitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	18806N/130561C
Application Da		Application Number	
Title of Invention	Method of Cancer Treatment	with 2-(1H-Indole-3-Carbonyl)-T	hiazole-4-Carboxylic Acid Methyl Ester

Assignee 1

Complete this section only if non-applicant assignee information is desired to be included on the patent application publication in accordance with 37 CFR 1.215(b). Do not include in this section an applicant under 37 CFR 1.46 (assignee, person to whom the inventor is obligated to assign, or person who otherwise shows sufficient proprietary interest), as the patent application publication will include the name of the applicant(s).

		Middle Name	Family Name	Suffix
Mailing Address In	formation For Non-Ap	plicant Assignee:		
Address 1				
Address 2				<u> </u>
City		State/	Province	
Country ⁱ		Postal	Code	
Phone Number		Fax N	umber	
Email Address			,,,,,,,,,,,,,,,,,	

Signature:

NOTE: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4 for signature requirements and certifications.						
Signature	/Cong Ding/				Date (YYYY-MM-DD)	2013-07-30
First Name	Cong	Last Name	Ding		Registration Number	62273
	· · · ·	·····			· · · · · · · · · · · · · · · · · · ·	

Additional Signature may be generated within this form by selecting the Add button.

This collection of information is required by 37 CFR 1.76. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 23 minutes to complete, including gathering, preparing, and submitting the completed application data sheet form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450**.

INFORMATION DISCLOSURE	Application Number	
	Filing Date	2013-07-26
	First Named Inventor Jiash	eng Song
(Not for submission under 37 CFR 1.99)	Art Unit	
	Examiner Name	
	Attorney Docket Number	18806N/130561C

					U.S.	PATENTS				
Examiner Initial*	Cite No	Patent Number	Kind Code1	Issue E	Date	Name of Patentee or Applicant of cited Document		Rele	es,Columns,Lines wher vant Passages or Rele [,] res Appear	
	1	6916834		2005-07	′- 00	DeLuca, et al.				
If you wis	h to add	d additional U.S. Pater	nt citatio	n inform	ation pl	lease click the	Add button.			
	·		Ų.S.P	ATENT	APPLI	CATION PUB	LICATIONS			
Examiner Initial*			Kind Code1	Publication ¹ Date		Name of Patentee or Applicant of cited Document		Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear		
	1									
If you wish	n to add	additional U.S. Publis	shed Ap	plication	citation	n information p	please click the Add	l butto	n.	
				FOREIG	N PAT	ENT DOCUM	IENTS		an <u>an</u>	
Examiner Initial*	ner Cite Foreign Document No Number³		Country Code²i			Publication Date	Name of Patentee Applicant of cited Document	e or	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T5
	1 V	VO02064138	WO	vo		2002-08-22	DeLuca, et al.		para[0014]-[0016], 0039]-[0042],[0048]	
	2 WO0228832 WO		WO			2002-04-11	Safe		para [2002],[0023], [0039]-[0045],[0049]- [0050],[0052]-0053], [0075]	
lf you wish	to add	additional Foreign Pa				information pl		button		

1

INFORMATION DISCLOSURE Application Number 2013-07-26 Filing Date 2013-07-26 First Named Inventor Jiasheng Song Art Unit Examiner Name Attorney Docket Number 18806N/130561C

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T5
	1	DIETRICH ET AL.,"The aryl hydrocarbon receptor (AhR) in the regulation of cell-cell contact and tumor growth", Carcinogenesis, 2010;31(8):1319-1328	
	2	SIMON ET AL., "Estimates of cancer potency of 2,3,7,8-tetrachlorixlibenzo(p)dioxin using linear and nonlinear dose- response modeling and toxicokinetics", Toxicological sciences, 2009;112(2):490-506.	
4	3	ISHIDA ET AL.,"Activation of the aryl hydrocarbon receptor pathway enhances cancer cell invasion by upregulating the MMP expression and is associated with poor prognosis in upper urinary tract urothelial cancer",Carcinogenesis. 2010;31(2):287-295.	
	4	RAY ET AL,"Activation of the aryl hydrocarbon receptor by TCDD inhibits senescence: a tumor promoting event?", Biochem. Pharmacol. 2009;77(4):681-688.	
	5	KNERR ET AL.,"Carcinogenicity of 2,3,7,8-tetrachlorodibenzo-p-dioxin in experimental models.", Mol Nutr Food Res. 2006;50(10):897-907	
	6	YU ET AL.,"In utero exposure of mice to dibenzo[a,I] pyrene produces lymphoma in the offspring: role of the aryl hydrocarbon receptor.",Cancer Res. 2006;66(2):755-762.	
	7	McDOUGAL ET AL:Inhibition of 7,12-dirnethylbenz [a] anthracene-induced rat mammary tumor growth by aryl hydrocarbon receptor agonists'',Cancer Lett. 1997;120(1):53-63.	
	8	HOLCOMB M ET AL.:Inhibition of 7,12-dimethylbenzanthracene-induced rat mammary tumor growth by 2,3,7,8- tetrachlorodibenzo-p-dioxin",Cancer Lett. 1994;82(1):43-7	
	9	McDOUGAL ET AL "Tamoxifen-induced antiturnorigenic/antiestrogenic action synergized by a selective aryl hydrocarbon receptor modulator",Cancer Res_ 2001;61(10):3902-3907.	
	10	GIERTHY ET AL"Correlation of in vitro and in vivo growth suppression of MCF-7 human breast cancer by 2,3,7,8- tetrachlorodibenzo-p-dioxin", Cancer Res. 1993;53(13):3149-3153.	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number	
	Filing Date	2013-07-26
	First Named Inventor Jias	heng Song
	Art Unit	
	Examiner Name	
	Attorney Docket Number	18806N/130561C

	11	ZHANG ET AL, "The aryl hydrocarbon receptor as a target for estrogen receptor-negative breast cancer chemotherapy.", Endocr. Relat_ Cancer 2009;16(3):835-844.						
	12	O'Donne inhibitio	O'Donnell EF, Kopparapu PR, Koch DC, et al. The aryl hydrocarbon receptor mediates leflunomide-induced growth inhibition of melanoma cells. PLoS ONE. 2012;7(7):e40926.					
	13	LO PIPARO et. al.:Virtual screening for aryl hydrocarbon receptor binding prediction", J Med Chenn,2006,Vo1 49(19), pp 5702-5709; pg 5702- pg 5703;pg5708						
If you wis	h to ac	dd additi	ional non-patent litera	ature document citation inform	nation please click the Add	button		
				EXAMINER SIGNAT	JRE			
Examiner	Signa	ature			Date Considered			
*EXAMIN citation if	ER: In not in	itial if rei conform	eference considered, v nance and not conside	whether or not citation is in co lered. Include copy of this for	onformance with MPEP 609 m with next communication	. Draw line through a to applicant.		
Standard S	T.3). ³ F cument	For Japane by the app	ese patent documents, the propriate symbols as indica	w.USPTO.GOV or MPEP 901.04. ² E e indication of the year of the reign of ated on the document under WIPO S	the Emperor must precede the se	rial number of the patent doc	ument.	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number	
	Filing Date	2013-07-26
	First Named Inventor	iasheng Song
	Art Unit	
	Examiner Name	
	Attorney Docket Number	18806N/130561C

CERTIFICATION STATEMENT							
Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):							
	That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).						
OR	ł						
	That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).						
See attached certification statement.							
The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.							
\boxtimes							
SIGNATURE A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.							
Sigr	nature	/Cong Ding/	Date (YYYY-MM-DD)	2013-07-30			
Nan	ne/Print	Cong Ding	Registration Number	62273			
pub 1.14 app requ Pate FEE	lic which is to file 4. This collection i lication form to the uire to complete the ent and Trademar	rmation is required by 37 CFR 1.97 a (and by the USPTO to process) an a is estimated to take 1 hour to comple e USPTO. Time will vary depending his form and/or suggestions for reduci k Office, U.S. Department of Comme ED FORMS TO THIS ADDRESS. SI	oplication. Confidentiality is gove te, including gathering, preparing upon the individual case. Any co ing this burden, should be sent to rce. P.O. Box 1450, Alexandria, \	and submitting the completed mments on the amount of time you the Chief Information Officer, U.S. /A 22313-1450. DO NOT SEND			