504265829 03/09/2017

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4312509

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
SHUANG-YUAN ZHANG	08/02/2016
SI YIN TEE	08/03/2016
MING-YONG HAN	08/08/2016
KWOK WEI SHAH	08/03/2016
CHIN SHENG CHUA	08/03/2016
DONGZHI CHI	08/03/2016
ANDY HOR	08/03/2016

RECEIVING PARTY DATA

Name:	AGENCY FOR SCIENCE, TECHNOLOGY AND RESEARCH
Street Address:	1 FUSIONOPOLIS WAY, #20-10 CONNEXIS
City:	SINGAPORE
State/Country:	SINGAPORE
Postal Code:	138632

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15209618

CORRESPONDENCE DATA

Fax Number: (408)720-8383

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Correspondent Name: BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP

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Address Line 4: SUNNYVALE, CALIFORNIA 94085

ATTORNEY DOCKET NUMBER:	9322P036
NAME OF SUBMITTER:	LESTER J. VINCENT
SIGNATURE:	/LESTER J. VINCENT/
DATE SIGNED:	03/09/2017

PATENT 504265829 REEL: 041533 FRAME: 0369

Total Attachments: 8 source=9322P036_Assignment#page1.tif source=9322P036_Assignment#page2.tif source=9322P036_Assignment#page3.tif source=9322P036_Assignment#page4.tif source=9322P036_Assignment#page5.tif source=9322P036_Assignment#page6.tif source=9322P036_Assignment#page7.tif source=9322P036_Assignment#page8.tif

PATENT REEL: 041533 FRAME: 0370

ASSIGNMENT OF PATENT APPLICATION	Attorney Docket No.: 9322P036
For good and valuable consideration, the receipt an acknowledged, I/we, the undersigned, <u>Shuang-Yuan ZHAN</u> Kwok Wel SHAH, Chin Sheng CHUA, Dongzhi CHI, and An	G. Si Yin TEE. Mina-Yona HAN.
hereby sell, assign, and transfer toAgency for Science.]	
a <u>agency</u> (Type of Assignee: e.g., corporation, company, pannership, university, e	of <u>SINGAPORE</u>
having a principal place of business at	24 g <u></u>
1 Fusionopolis Way, #20-10 Connexis, Singapore, 138632	SINGAPORE
("Assignee"), and its successors, assigns, and legal repress for the United States and all foreign countries, in and to any are disclosed in the application (provisional or non-provision the non-provisional application may have a declaration exec concurrently herewith and which application (provisional or	r and all inventions or improvements that nai) for the United States patent which for puted by the undersigned prior hereto or
A METHOD <u>FOR PREPARING TRANSITION METAL PHO</u>	SPHIDE
said patent application also identified as follows (when know	vn):
[i/we hareby authorize an attorney or agent for said number and fliing date of said patent application wh	Assignee to insert below the application en known.]
United States Patent Application Number <u>15/209,618</u>	filledJuly 13, 2016_,
and in and to said application (provisional or non-provisional provisional applications, utility applications, design applications applications, continued prosecution applications, continued applications, release applications, reexpatent applications that have been or shall be filed in the Unof said inventions or improvements; and in and to all original certificates, and extensions, that have been or shall be lesur countries on said inventions or improvements; and in and to of said United States application;	ons, divisional applications, continuation on-in-part applications, substitute xaminations, extensions, and all other nited States and all foreign countries on any I patents, reissued patents, reexamination ed in the United States and all foreign
agree that said Assignee may apply for and receive improvements in its own name; and that, when requested, we said Assignee, its successors, assigns, and legal represents and purpose of this Assignment, the undersigned will execut provisional applications, utility applications, design applications applications, continued prosecution applications, continued applications, releasing applications, renewal applications, releasing applications, renewal applications, releasing applications on any and all said inventions or improve assignments, powers of attorney, and other papers; communications, and representatives all facts known to the undersign improvements and the history thereof; and generally assist said.	vithout charge to, but at the expense of, atives, to carry out in good faith the intent te all provisional applications, noncons, divisional applications, continuation on-in-part applications, substitute examinations, extensions, and all other aments; execute all rightful oaths, nicate to said Assignee, its successors, and relating to said inventions or

covenant with said Assignee, its successors, assigns, and legal representatives that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

Each Inventor: Please Sign and Date Below:

f_02_,2016_	Signature
	Shuang-Yuan ZHANG Printed/Typed Name
, 20 Date	Signature
	SI YIN TEE Printed/Typed Name
, 20	
Date	Signature
	<u>Ming-Yong HAN</u> Printed/Typed Name
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, 20 Date	Signature
	Kwok Wei SHAH Printed/Typed Name
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Date	Signature
	Chin Sheng CHUA Printed/Typed Name
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Date	Signature
	Dongzhi CHI
	Printed/Typed Name
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Date	Signature
	Andy HOR Printed/Typed Name

-2-

ASSIGNMENT OF PATENT APPLICATION	Attorney Docket No.: 9322P036
For good and valuable consideration, the receip acknowledged, I/we, the undersigned, <u>Shuang-Yuan Z</u> Kwok Wel SHAH, Chin Sheng CHUA, Dongzhi CHI, ar	pt and sufficiency of which is hereby HANG, SI YIn TEE, Ming-Yong HAN,
hereby sell, assign, and transfer toAgency for Scien	nce, Technology and Research
a <u>agency</u> (Type of Assignee: e.g., corporation, company, partnership, unive	of SINGAPORE ,
having a principal place of business at	·
1 Fusionopolis Way, #20-10 Connexis, Singapore, 138	1632 SINGAPORE ,
("Assignee"), and its successors, assigns, and legal re for the United States and all foreign countries, in and to are disclosed in the application (provisional or non-pro the non-provisional application may have a declaration concurrently herewith and which application (provision	presentatives, the entire right, title, and interest o any and all inventions or improvements that visional) for the United States patent which for executed by the undersigned prior hereto or
A METHOD FOR PREPARING TRANSITION METAL	PHOSPHIDE
said patent application also identified as follows (when [I/we hereby authorize an attorney or agent for number and filing date of said patent applicatio	said Assignee to insert below the application
United States Patent Application Number <u>15/209,61</u>	8 filed July 13, 2016 .
and in and to said application (provisional or non-provisional applications, utility applications, design applications, continued prosecution applications, continued prosecution applications, continued prosecution applications, continued prosecution applications, renewal applications, reissue applications patent applications that have been or shall be filed in the of said inventions or improvements; and in and to all or certificates, and extensions, that have been or shall be countries on said inventions or improvements; and in a of said United States application;	ilications, divisional applications, continuation nuation-in-part applications, substitute is, reexaminations, extensions, and all other ne United States and all foreign countries on any riginal patents, reissued patents, reexamination issued in the United States and all foreign
agree that said Assignee may apply for and recomprovements in its own name; and that, when request said Assignee, its successors, assigns, and legal represent provisional applications, utility applications, design applications, continued prosecution applications, continued prosecution applications, continued prosecution, release applications patent applications on any and all said inventions or imassignments, powers of attorney, and other papers; consigns, and representatives all facts known to the undimprovements and the history thereof; and generally as	led, without charge to, but at the expense of, issentatives, to carry out in good faith the intent execute all provisional applications, non-ilications, divisional applications, continuation nuation-in-part applications, substitute, reexaminations, extensions, and all other approvements; execute all rightful oaths, immunicate to said Assignee, its successors, lersigned relating to said inventions or

PATENT REEL: 041533 FRAME: 0373

covenant with said Assignee, its successors, assigns, and legal representatives that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

Each Inventor: Please Sign and Date Below:

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0) Atykst, 2016 Date	Bighalure Bighalure	****
, 20	Ming-Yong HAN Printed/Typed Name	
Date	Signature Kwok Wei SHAH Printed/Typed Name	
03 Angust , 20 16 Dala	Signature	
AUJ 3 , 20 16	Chin Sheng CHUA Printed/Typed Name	7,
Date	, Orgnature Dengzhi CHI Printed/Typed Name	
, 20	Signature	
	Andy HOR Printed/Typed Name	
IMR9019/02/08	-2-	Rev. 1/08/2010

PATENT REEL: 041533 FRAME: 0374

ASSIGNMENT OF PATENT APPLICATION	Attorney Docket No.: 9322P036
For good and valuable consideration, the receipt and acknowledged, I/we, the undersigned, <u>Shuang-Yuan ZHANG</u> Kwok Wel SHAH, Chin Sheng CHUA, Dongzhi CHI, and And	3. SI YIn TEE, Ming-Yong HAN,
hereby sell, assign, and transfer to <u>Agency for Science, T</u>	echnology and Research
a <u>agency</u> (Type of Assignes: e.g., corporation, company, partnership, university, et	of <u>SINGAPO</u> RE
having a principal place of business at	
1 Fusionopolis Way, #20-10 Connexis, Singapore, 138632 S	SINGAPORE ,
("Assignee"), and its successors, assigns, and legal represe for the United States and all foreign countries, in and to any are disclosed in the application (provisional or non-provision the non-provisional application may have a declaration exec concurrently herewith and which application (provisional or n	and all inventions or improvements that al) for the United States patent which for uted by the undersigned prior hereto or
A METHOD FOR PREPARING TRANSITION METAL PHOS	SPHIDE
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said patent application also identified as follows (when know	n):
[I/we hereby authorize an attorney or agent for said / number and filing date of said patent application who	Assignee to insert below the application on known.]
United States Patent Application Number 15/209.618	filed <u>July 13, 2016</u> ,
and in and to said application (provisional or non-provisional provisional applications, utility applications, design application applications, continuation applications, continuation applications, renewal applications, reissue applications, reexpatent applications that have been or shall be filled in the Unit of said inventions or improvements; and in and to all original certificates, and extensions, that have been or shall be issue countries on said inventions or improvements; and in and to of said United States application;	ons, divisional applications, continuation n-in-part applications, substitute taminations, extensions, and all other ited States and all foreign countries on any patents, reissued patents, reexamination and in the United States and all foreign
agree that said Assignee may apply for and receive a improvements in its own name; and that, when requested, we said Assignee, its successors, assigns, and legal represents and purpose of this Assignment, the undersigned will execute provisional applications, utility applications, design application applications, continued prosecution applications, continued prosecution applications, continued applications, release applications, reex patent applications on any and all said inventions or improve assignments, powers of attorney, and other papers; communications, and representatives all facts known to the undersign improvements and the history thereof; and generally assist s	ithout charge to, but at the expense of, tives, to carry out in good faith the intent e all provisional applications, non- ns, divisional applications, continuation n-in-part applications, substitute aminations, extensions, and all other ments; execute all rightful oaths, licate to said Assignee, its successors, and relating to said inventions or

PATENT REEL: 041533 FRAME: 0375

covenant with said Assignee, its successors, assigns, and legal representatives that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

Each Inventor: Please Sign and Date Below:

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Data	, , , , , , , , , , , , , , , , , ,	Signature
		Shuang-Yuan ZHANG
		Printed/Typed Name
	, 20	
Date		Signature
		SI Yin TEE
		Printed/Typed Name
	, 20	
Date		Signature
		Ming-Yong HAN
		Printed/Typed Name
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		Kwok Wel SHAN
		Printed/Typed Name
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Date		Signature
		Chin Sheng CHUA
		Printed/Typed Name
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Date		Signature
		Dongzhi CHI
		Printed/Typed Name
	, 20	
Date		Signature
		Andy HOR
		Printed/Typed Name

-2-

ASSIGNMENT OF PATENT APPLICATION	Attorney Docket No.: 9322P036
For good and valuable consideration, the receipt and acknowledged, I/we, the undersigned, <u>Shuang-Yuan ZHAN</u> Kwok Wel SHAH, Chin Sheng CHUA, Dongzhi CHI, and An	G, Si Yin TEE, Ming-Yong HAN,
hereby sell, assign, and transfer to <u>Agency for Science.</u>]	Cachnology and Research
a <u>agency</u> (Type of Assignee: e.g., corporation, company, partnership, university, e	of SINGAPORE
having a principal place of business at	
1 Fusionopolis Way, #20-10 Connexis, Singapore, 138632 (SINGAPORE ,
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A METHOD FOR PREPARING TRANSITION METAL PHOS	
said patent application also identified as follows (when know	Assignee to insert below the application
number and filing date of said patent application who	
United States Patent Application Number 15/209,618	filed <u>July 13, 2016</u> ,
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PATENT REEL: 041533 FRAME: 0377

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Each Inventor: Please Sign and Date Below:

	. 20		
Date		Signature	
		Shuang-Yuan ZHANG	
		Printed/Typed Name	
	, 20		
Date		Signature	
		SI YIN TEE	
		Printed/Typed Name	
	, 20		~
Date		Signature	
		Ming-Yong HAN	
		Printed/Typed Name	
	, 20	•	
Date		Signature	
		Kwok Wei SHAH	
		Printed/Typed Name	*
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Date		Signature	
		Chin Sheng CHUA	
		Printed/Typed Name	
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Date		Signature	
		Dengzhi CHI 🔥	
		Printed/Typed Name	
3 August	. 20 lb·	/ / /	
Date		Signature	
		Andy HOR	
		Printed/Typed Name	
		-2-	Maria Almaras (A
		~ <i>&</i> ~	Rev. 1/08/2010

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RECORDED: 03/09/2017

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