503923158 07/20/2016

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
CHANG-SING HWANG	04/15/2016
CHUN-HUANG TSAI	04/15/2016
CHUN-LIANG CHANG	04/15/2016
ZONG-YANG CHUANG SHIE	04/15/2016
SHENG-FU YANG	04/15/2016
TE-JUNG HUANG	04/15/2016
MING-HSIU WU	04/15/2016
JING-KAI LIN	04/15/2016

RECEIVING PARTY DATA

Name:	INSTITUTE OF NUCLEAR ENERGY RESEARCH, ATOMIC ENERGY COUNCIL, EXECUTIVE YUAN, R.O.C	
Street Address:	1000 WENHUA RD. JIAAN VILLAGE, LONGTAN DISTRICT	
City:	TAOYUAN	
State/Country:	TAIWAN	
Postal Code:	32546	

PROPERTY NUMBERS Total: 1

Property Type	Number	
Application Number:	15214701	

CORRESPONDENCE DATA

Fax Number:

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: 617 239-0100

Email: patent@lockelord.com
Correspondent Name: LOCKE LORD LLP
Address Line 1: P.O. BOX 55874

Address Line 4: BOSTON, MASSACHUSETTS 02205

ATTORNEY DOCKET NUMBER:	0121225.173US2
NAME OF SUBMITTER:	TIM TINGKANG XIA
SIGNATURE:	/Tim Tingkang Xia/

PATENT 503923158 REEL: 039401 FRAME: 0526

DATE SIGNED: 07/20/2016

Total Attachments: 3
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PATENT REEL: 039401 FRAME: 0527

LOCKE LORD LLP

3333 Piedmont Rd NE # 1200, Atlanta, GA 30305 Tel: (404) 870-4600

DECLARATION AND ASSIGNMENT FOR PATENT AND DESIGN APPLICATIONS

UNITED STATES PATENT RIGHTS, OR UNITED STATES PLUS ALL FOREIGN PATENT RIGHTS

Title of Invention PERMEABLE METAL SUBSTRATE, METAL-SUPPORTED SOLID OXIDE FUEL CELL AND THEIR MANUFACTURING METHODS

As a below named inventor (hereinafter designated as the undersigned), I hereby declare that: Application not This declaration is directed to the application attached hereto. If the application is not attached hereto, the Attached application is as identified by the attorney docket number as set forth above and/or the following: Enter Applin No. * United States Application Number or PCT International Applin. No. The above-identified application was made or authorized to be made by me. I believe that I am the original inventor or an original joint inventor of a claimed invention in the application. I have reviewed and understand the contents of the above-identified application, including the claims. I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations § 1.56. WHEREAS, the undersigned has invented certain new and useful improvements described in the application identified. Insert Name * WHEREAS, Institute of Nuclear Energy Research, Atomic Energy Council, Executive Yuan, R.O.C of Assignee Insert Address of 1000 Wenhua Rd. Jiaan Village, Longtan District, Taoyuan City 32546, Taiwan (ROC) of Assignee its heirs, successors, legal representatives and assigns (hereinafter designated as the Assignee) is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent(s) that may be granted therefor in the United States of America and Check Box if in any foreign countries. Appropriate NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, the undersigned has sold, assigned and transferred, and by these presents does (do) sell, assign and transfer unto said Assignee the full and exclusive right to the said invention in the United States of America, its territories, dependencies and possessions and the entire right, title and interest in and to any and all Letters Patent(s) which may be granted therefor in the United States of America, its territories, dependencies and possessions, and if the box above is designated, in any and all foreign countries; and to any and all divisions, reissues, continuations, conversions and extensions thereof for the full term or terms for which the same may be granted.

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The undersigned agrees to execute all papers necessary in connection with this application and any continuing, divisional, conversion or reissue applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

The undersigned agrees to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation, division, conversion or reissue thereof or Letters Patent(s) or reissue patent issued thereon and to cooperate with the Assignee in every way possible in obtaining and producing evidence and proceeding with such interference.

The undersigned agrees to execute all papers and documents and to perform any act which may be necessary in connection with claims or provisions of the International Convention for the Protection of Industrial Property or similar agreements.

The undersigned agrees to perform all affirmative acts which may be necessary to obtain a grant of (a) valid United States of America and any foreign patent(s) to the Assignee and to vest all rights therein hereby conveyed to said Assignee as fully and entirely as the same would have been held by the undersigned if this Assignment and sale had not been made.

The undersigned hereby authorizes and requests the Patent and Trademark Office Officials in the United States of America and in any foreign countries to issue any and all Letters Patent(s) resulting from said application or any continuing, divisional conversion or reissue applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has the full right to convey the entire interest herein assigned, and that he has not executed, and will not execute, any agreement in conflict herewith.

The undersigned hereby grants the law firm of Locke Lord LLP — the power to insert any further identification which may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office.

The undersigned hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

The undersigned hereby acknowledges that any willful false statement made in this declaration is punishable under 18 U.S.C. § 1001 by fine or imprisonment of not more than five (5) years, or both.

In witness whereof, executed by the undersigned on the date opposite the undersigned name.

Inventor's Name - P Inventor:	HWANG, CHANG-SING	Date: April 15, 2016
Inventor's Signature > Signature;	Changesing Luang	
	Grand of the state	

An application data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form. Use a separate form for each inventor; or check the box below and complete the attached page(s) to list additional inventors.

X Additional inventors are being named on the ____ supplemental sheet(s) attached hereto.

LEGAL NAME OF INVENTOR

SUPPLEMENTAL SHEET FOR DECLARATION AND ASSIGNMENT

LEGAL NAME OF JOINT INVENTOR, IF ANY

ADDITIONAL INVENTOR(S) Supplemental Sheet Page 2 of 2

Inventor's Name	⇒ inventor:	TSAI, CHUN-HUANG	Date:	April 15, 2016
Inventor's Signature	e Signature:	Chun-Huang Isai		
	LEGAL NA	AME OF JOINT INVENTOR, IF ANY		
žens erakor s žvisame	inventor:	CHANG, CHUN-LIANG	Date:	April 15, 2016
Invertor's Signature	° Signature:	chur-liary chang		
	I FC AT N	AME OF JOINT INVENTOR, IF ANY		
inventor's Name	⇔lnventor:	CHUANG SHIE, ZONG-YANG	Doto	April 15, 2016
Inventor's Signature		Zong - Yang Chuang Shie	LYMPE	71 13, 2333
		3	one tree we cheep a win to defende	то бести по не на почет на поч
	LEGAL NA	AME OF JOINT INVENTOR, IF ANY		
Inventor's Name	[©] Inventor:	YANG, SHENG-FU	Date:	April 15, 2016
Inventor's Signature	⇔Signature:	shong-try / m	4	
	LEGAL NA	AME OF JOINT INVENTOR, IF ANY	r	
Inventor's Name	°Inventor.	HUANG, TE-JUNG	Date:	April 15, 2016
Inventor's Signature	"Signature:	Te-Jung, Huang		
	LEGAL NA	AME OF JOINT INVENTOR, IF ANY		
Inversor's Name	⇔Inventor:	WU, MING-HSIU	Date:	April 15, 2016
(memor's Signæun-	⇔Signature:	Ming-Hsin Wn		
	LEGAL NA	AME OF JOINT INVENTOR, IF ANY		ş
Inventor's Name	**Inventor:	LIN, JING-KAI	Date:	April 15, 2016
Inventor's Signature	^o Signature:	Ting-Kai Lin		
	LEGAL NA	ME OF JOINT INVENTOR, IF ANY		
Inventor's Name	⇔Inventor:	Attended to the control of the contr	Date:	
Inventor's Signature	⁴³ Signature:			

PATENT REEL: 039401 FRAME: 0530

RECORDED: 07/20/2016