### 501905959 05/01/2012

### PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
Sung Jae HONG	04/18/2012

### RECEIVING PARTY DATA

Name:	LIGADP CO., LTD.	
Street Address:	333-5, Sangdaewon-dong, Joongwon-gu	
Internal Address:	Seongnam-city	
City:	Gyeonggi-do	
State/Country:	KOREA, REPUBLIC OF	
Postal Code:	462-807	

### PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13503787

### **CORRESPONDENCE DATA**

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ATTORNEY DOCKET NUMBER:	17816/020001 (VAV)
NAME OF SUBMITTER:	Jeffrey S. Bergman

**Total Attachments: 2** 

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PATENT REEL: 028133 FRAME: 0802 OF \$40.00 13503787

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# **OSHALIANG**

### ASSIGNMENT - WORLDWIDE

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the undersigned individual(s) (referred to herein as the "INVENTOR(S)") hereby assign, transfer, and set over to:

#### LIGADP CO., LTD.

having the following address:

333-5, Sangdaewon-dong, Joongwon-gu, Seongnam-city, Gyeonggi-do 462-807 Republic of Korea

(referred to herein as "COMPANY"), its successors, and assigns, the entire right, title, and interest, worldwide, in and to the invention known by the following title:

### METAL ORGANIC CHEMICAL VAPOR DEPOSITION DEVICE AND TEMPERATURE CONTROL METHOD THEREFOR

for which the undersigned has/have executed an application for patent in the United States of America on or about this same day, together with said patent application, all divisions, continuations, continuations-in-part, reissues, and extensions thereof, and all Letters Patent (domestic and foreign) that may be granted therefor. Such interest represents the entire ownership of said applications and Letters Patent when granted and is to be owned by COMPANY, its successors, and assigns, or their legal representatives, for the full and entire term for which such Letters Patent may be granted or extended, as fully and entirely as the same would have been enjoyed by the INVENTOR(S) if this assignment had not been made.

In addition, the undersigned INVENTOR(S) each hereby agrees:

- To sign and execute any further documents that may be necessary or desirable, lawful, and proper in connection with the prosecution of all applications for patent(s) on the INVENTION in the United States, including without limitation said application and all divisions, continuations, continuations-in-part, amendments thereof, and all interference proceedings associated therewith, or otherwise necessary or desirable to secure the title thereto to COMPANY;
- To execute all papers and documents and to perform all lawful acts that may be necessary in connection with claims to priority or otherwise under the International Convention for the Protection of Industrial Property or similar treaties or agreements;
- To perform all lawful affirmative acts that may be necessary to obtain the grant of valid and enforceable patents to COMPANY.

The undersigned INVENTOR(S) each hereby authorizes and requests the Commissioner of Patents and Trademarks in the United States to issue any and all Letters Patent resulting from said application, including without limitation any division, continuation, continuation-in-part, or reissue thereof to COMPANY.

The undersigned INVENTOR(S) each hereby grants to the firm of OSHA • LIANG LLP the power to insert on this Assignment any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for the recordation of this document.

PATENT REEL: 028133 FRAME: 0803

# **OSHALIANG**

IN WITNESS WHEREOF, this Assignment has been executed by each of the undersigned individuals on the date appearing by such individual's signature:

ىر	Date	1 <sup>st</sup> Inventor Signature:  Print or Type Name: HC	DNG, Sung Jae	
	(a) a Notary Public for c	This Assignment may be signed one of the States of the United States		gn below:
)	State of County of			
PUE	Before me personally appeared:	1 <sup>e</sup> Inventor		2 <sup>nd</sup> Inventor
NOTARY PUBLIC	each of whom acknowledged the execute this Assignment.	3rd Inventor foregoing instrument to be a free act	and deed and also represented	4 <sup>6</sup> Inventor that he/she is authorized to
2	Dated:	N	Management	
		Notary Public	My commission expires: _	
SES		Signature of Witness:		
WITNESSES	Date	Print or Type Name:		
E		Signature of Witness:		
-	Date	Print or Type Name:		

When this Assignment is <u>not</u> filed concurrently with the patent application, the following identifying information may be added <u>after</u> execution:

U.S. Application Serial No.: 13/503, 787

Filing Date: April 24, 2012

PATENT REEL: 028133 FRAME: 0804

RECORDED: 05/01/2012