

## PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>Joo-Seok Park</td><td>02/06/2009</td></tr><tr><td>Bo-Yoon Jang</td><td>02/06/2009</td></tr><tr><td>Soon-Jae Yu</td><td>02/06/2009</td></tr><tr><td>Joon-Soo Kim</td><td>02/06/2009</td></tr></tbody></table>	Name	Execution Date	Joo-Seok Park	02/06/2009	Bo-Yoon Jang	02/06/2009	Soon-Jae Yu	02/06/2009	Joon-Soo Kim	02/06/2009	
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Joo-Seok Park	02/06/2009										
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Soon-Jae Yu	02/06/2009										
Joon-Soo Kim	02/06/2009										
RECEIVING PARTY DATA											
Name:	Korea Institute of Energy Research										
Street Address:	71-2, Jang-dong										
Internal Address:	Yuseong-gu										
City:	Daejeon										
State/Country:	REPUBLIC OF KOREA										
Postal Code:	305-343										
PROPERTY NUMBERS Total: 1											
<table border="1"><thead><tr><th>Property Type</th><th>Number</th></tr></thead><tbody><tr><td>Application Number:</td><td>12344876</td></tr></tbody></table>	Property Type	Number	Application Number:	12344876							
Property Type	Number										
Application Number:	12344876										
CORRESPONDENCE DATA											
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ATTORNEY DOCKET NUMBER:	87408.4420										
NAME OF SUBMITTER:	Adam M. Treiber										

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PATENT  
REEL: 022379 FRAME: 0827

**Total Attachments: 3**

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**ASSIGNMENT**

WHEREAS WE, Joo-Seok PARK, having an address of Unit 1209-502, Daedeok Techno Valley-Apt., Yongsan-Dong, Yuseong-Gu, Daejeon 305-792, Republic of Korea; Bo-Yoon JANG, having an address of Unit 707-1603, Yeolmae-Maeul, Jijok-Dong, Yuseong-Gu, Daejeon 305-770, Republic of Korea; Soon-Jae YU, having an address of Unit 104-204, Dongah-SolecityApt., Hangwon-Maeul, 1162, Boejeong-Ri, Guseong-Eup, Yongin-Si, Kyeonggi-Do 449-940 Republic of Korea; and Joon-Soo KIM, having an address of Unit 106-1001, Hanareum Apt., Wolpyeong 2-Dong, Seo-Gu, Daejeon 302-753, Republic of Korea ("Assignor"), have made a certain new and useful design as set forth in an application for United States Letters Patent entitled **NITRIDE RED PHOSPHORS AND WHITE LIGHT EMITTING DIODE USING RARE-EARTH-CO-DOPED NITRIDE RED PHOSPHORS**, filed in the U.S. Patent and Trademark Office on December 29, 2008 and assigned U.S. Serial No. 12/344,876,

AND WHEREAS, KOREA INSTITUTE OF ENERGY RESEARCH, having an address of 71-2, Jang-dong, Yuseong-gu, Daejeon 305-343, Republic of Korea, ("Assignee"), is desirous of acquiring the entire right, title and interest in and to said invention, and in and to any and all Letters Patent of the United States and foreign countries which may be obtained therefor;


NOW, THEREFORE, for good and valuable consideration, the receipt for and sufficiency of which is hereby acknowledged, Assignor does hereby sell, assign, transfer and set over unto Assignee, its legal representatives, successors, and assigns, the entire right, title and interest in and to said invention, including the right to claim priority under 35 U.S.C. §119 and the right to sue for past infringement, as set forth in the above-mentioned application, including any continuations, continuations-in-part, divisions, reissues, re-examinations or extensions thereof, and in and to any and all patents of the United States and foreign countries which may be issued for said invention;

UPON SAID CONSIDERATION, Assignor hereby agrees with the said Assignee that Assignor will not execute any writing or do any act whatsoever conflicting with these presents, and that Assignor will, at any time upon request, without further or additional consideration but at the expense of said Assignee, execute such additional assignments and other writings and do such additional acts as said Assignee may deem necessary or desirable to perfect the Assignee's enjoyment of this grant, and render all necessary assistance in making application for and obtaining original, divisional, continuations, continuations-in-part, reexamined, reissued, or extended Letters Patent of the United States or of any and all foreign countries on said invention, and in enforcing any rights or choses in action accruing as a result of such applications or patents, by giving testimony in any proceedings or transactions involving such applications or patents, and by executing preliminary statements and other affidavits, it being understood that the foregoing covenant and agreement shall bind, and inure to the benefit of the assigns and legal representatives of Assignor and Assignee;

The undersigned hereby grant(s) the firm of BAKER & HOSTETLER LLP the power to insert on this Assignment any further identification, including the application number and filing date, which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

AND Assignor requests the Commissioner of Patents and Trademarks to issue any Letters Patent of the United States which may be issued for said invention to said Assignee, its legal representatives, successors or assigns, as the sole owner of the entire right, title and interest in and to said patent and the invention covered thereby.

02/06/2009  
Date

  
Joo-Seok PARK

On this \_\_\_\_\_ day of \_\_\_\_\_, 2009, before me personally appeared Joo-Seok PARK to me known to be the persons named in and who executed the above instrument, and acknowledged to me that they executed the same for the uses and purposes therein set forth.

SEAL

\_\_\_\_\_  
Notary Public

My commission expires \_\_\_\_\_

02/06/2009  
Date

  
Bo-Yoon JANG

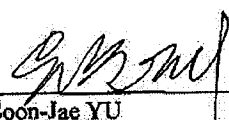
On this \_\_\_\_\_ day of \_\_\_\_\_, 2009, before me personally appeared Bo-Yoon JANG to me known to be the persons named in and who executed the above instrument, and acknowledged to me that they executed the same for the uses and purposes therein set forth.

SEAL

\_\_\_\_\_  
Notary Public

My commission expires \_\_\_\_\_

02/06/2009  
Date

  
Soon-Jae YU

On this \_\_\_\_\_ day of \_\_\_\_\_, 2009, before me personally appeared Soon-Jae YU to me known to be the persons named in and who executed the above instrument, and acknowledged to me that they executed the same for the uses and purposes therein set forth.

SEAL

\_\_\_\_\_  
Notary Public

My commission expires \_\_\_\_\_

Docket No.: 87408.4420  
USSN 12/344,876

PATENT

02/06/2009  
Date

joonsoo kim  
Joon-Soo KIM

On this \_\_\_\_\_ day of \_\_\_\_\_, 2009, before me personally appeared Joon-Soo KIM to me known to be the persons named in and who executed the above instrument, and acknowledged to me that they executed the same for the uses and purposes therein set forth.

SEAL

\_\_\_\_\_  
Notary Public

My commission expires \_\_\_\_\_

(NOTE: Legalization is not required for recording, but is *prima facie* evidence of execution under 35 U.S.C. 261).