

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>CHURL-HEE CHO</td> <td>08/31/2010</td> </tr> <tr> <td>DO-KYUNG KIM</td> <td>08/31/2010</td> </tr> <tr> <td>JEONG-GU YEO</td> <td>08/31/2010</td> </tr> <tr> <td>YOUNG-SOO AHN</td> <td>08/31/2010</td> </tr> <tr> <td>DONG-KOOK KIM</td> <td>08/31/2010</td> </tr> <tr> <td>HONG-SOO KIM</td> <td>08/31/2010</td> </tr> </tbody> </table>		Name	Execution Date	CHURL-HEE CHO	08/31/2010	DO-KYUNG KIM	08/31/2010	JEONG-GU YEO	08/31/2010	YOUNG-SOO AHN	08/31/2010	DONG-KOOK KIM	08/31/2010	HONG-SOO KIM	08/31/2010
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City:	Daejeon-si														
State/Country:	KOREA, REPUBLIC OF														
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>13920999</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13920999										
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OP \$40.00 13920999

Signature:	/Yoon S. HAM/
Date:	06/18/2013
Total Attachments: 2 source=ass_001#page1.tif source=ass_001#page2.tif	

ASSIGNMENT

WHEREAS, I, the undersigned, have invented certain new and useful improvements entitled "INORGANIC HOLLOW YARNS AND METHOD OF MANUFACTURING THE SAME" for which I have executed a Declaration for a U.S. Patent Application on the same date hereof or for which I filed U.S. Patent Application No. _____ on _____. In case this document is signed after the filing date and is provided without the filing date and/or the application number, I authorize the registrants of Knobbe, Martens, Olson & Bear, LLP, Customer No. 20,995 to include the filing date and application number in the blanks before filing this document for recordation with the United States Patent and Trademark Office.

AND WHEREAS, KOREA INSTITUTE OF ENERGY RESEARCH (hereinafter "ASSIGNEE"), a Korean Corporation, with its principal place of business at 71-2 Jang-dong, Yuseong-gu, Daejeon-si 305-343, Republic of Korea desires to acquire the entire right, title, and interest in and to the said improvements and the said Application.

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, I do hereby acknowledge that I have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said ASSIGNEE, its successors, legal representatives and assigns, the entire right, title, and interest, to and under the said improvements, and the said Application and all provisional applications relating thereto, and all divisions, renewals and continuations thereof, and all Letters Patent of the United States of America which may be granted thereon and all reissues and extensions thereof; and I hereby authorize and request the Commissioner of Patents of the United States of America to issue all Letters Patent for said improvements to the said ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND I DO HEREBY sell, assign, transfer, and convey to ASSIGNEE, his successors, legal representatives, and assigns all claims for damages and all remedies arising out of any violation of the rights assigned hereby that may have accrued prior to the date of assignment to ASSIGNEE, or may accrue hereafter, including, but not limited to, the right to sue for, collect, and retain damages for past infringements of the said Letters Patent before or after issuance.

AND I HEREBY covenant and agree that I will communicate to the said ASSIGNEE, successors, legal representatives and assigns, any facts known to me respecting said improvements, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths and generally do everything possible to aid the said ASSIGNEE, successors, legal representatives and assigns, to obtain and enforce proper patent protection for said improvements in all countries.

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