

PATENT ASSIGNMENT

Electronic Version v1.1
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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>YOU-YEON WON</td> <td>04/01/2013</td> </tr> <tr> <td>DAE HWAN KIM</td> <td>04/02/2013</td> </tr> <tr> <td>RONALD P. ANDRES</td> <td>04/08/2013</td> </tr> </tbody> </table>		Name	Execution Date	YOU-YEON WON	04/01/2013	DAE HWAN KIM	04/02/2013	RONALD P. ANDRES	04/08/2013		
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RECEIVING PARTY DATA											
<table border="1"> <tr> <td>Name:</td> <td>Purdue Research Foundation</td> </tr> <tr> <td>Street Address:</td> <td>1281 Win Hentschel Blvd.</td> </tr> <tr> <td>City:</td> <td>West Lafayette</td> </tr> <tr> <td>State/Country:</td> <td>INDIANA</td> </tr> <tr> <td>Postal Code:</td> <td>47906</td> </tr> </table>		Name:	Purdue Research Foundation	Street Address:	1281 Win Hentschel Blvd.	City:	West Lafayette	State/Country:	INDIANA	Postal Code:	47906
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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>13837705</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13837705						
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CORRESPONDENCE DATA											
Fax Number:	7654633486										
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>											
Phone:	765-588-3475										
Email:	otcpatent@prf.org										
Correspondent Name:	Purdue Research Foundation										
Address Line 1:	1281 Win Hentschel Blvd.										
Address Line 4:	West Lafayette, INDIANA 47906										
ATTORNEY DOCKET NUMBER:	66166-02										
NAME OF SUBMITTER:	Melissa Franks										
Signature:	/Melissa Franks/										
Date:	04/16/2013										

OP \$40.00 13837705

PATENT

Total Attachments: 10

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ASSIGNMENT

WHEREAS, *WE, YOU-YEON WON*, citizen of Korea; *DAE HWAN KIM*, citizen of Korea; *RONALD P. ANDRES*, citizen of the United States; (hereinafter "Assignors"), have made or developed a technology identified in a disclosure to Purdue Research Foundation (PRF) and assigned PRF reference number 66166, generally known as:

**"PREPARATION OF SUPER-STABLE GOLD NANORODS VIA ENCAPSULATION
INTO BLOCK COPOLYMER MICELLES",**

which is further described in a United States patent application filed on March 15, 2013, and accorded Application No. 13/837,705 ("Technology"); and

WHEREAS, Purdue Research Foundation, a statutory body corporate formed and existing under the Indiana Foundation or Holding Companies Act of 1921, having a place of business at *1281 Win Hentschel Blvd, West Lafayette, IN 47906* (hereinafter "Assignee"), is desirous of accepting and assuming all such right, title, and interests of the Assignor.

NOW, THEREFORE, for good and valuable consideration, receipt of which is hereby acknowledged, the Assignor(s) do hereby sell, transfer, convey, assign and deliver unto the Assignee, its successors, assigns and legal representatives, any and all intellectual property rights related to the Technology, including but not limited to: all precursors, portions, and works in progress with respect thereto and all inventions, works of authorship, masks works, technology, information, know-how, materials and tools relating thereto or to the development, support or maintenance thereof; all copyright, patent rights, trade secret rights, trademark rights, mask works rights, and all other intellectual property rights and all business, contract rights and goodwill in, incorporated or embodied in, used to develop, or related to any of the foregoing and any registrations and applications for registrations of the foregoing throughout the United States of America and the world and any and all other applications arising therefrom, including any and all divisions and continuations of the Technology, and any and all patents to be issued and obtained therefore and thereon, in the United States and throughout the world, including all

reissues, substitutions, supplements, and extensions thereof (collectively, the "Intellectual Property");

AND WE HEREBY agree to communicate to Assignee or its representative any facts known to us respecting the Technology whether or not patentable, which we may conceive, develop, make, produce or reduce to practice in whole or in part as a result of any employment, research, or activity involving or relating to the use of Purdue University resources; and agree to sign all lawful documents and make all rightful oaths and declarations relating to said Technology and Intellectual Property; authorize Assignee to insert herein the date of application, serial number, date of registration, and registration number of patents issued once known; and agree to otherwise aid ASSIGNEE as necessary and desirable to:

1. Obtain, enforce, and maintain any issued letters patent in the United States or throughout the world, when reasonably requested to do so by Assignee, including but not limited to executing, acknowledging, and delivering to Assignee such written documents and instruments as Assignee requests and giving testimony in support of Assignee's inventorship, as may be necessary in Assignee's opinion to obtain and maintain patents in the United States of America and throughout the world;

2. Secure or aid in securing and maintaining copyright protection in the Intellectual Property and assist Assignee or its nominees in filing applications to register copyright in the name of Assignee as owner in such Intellectual Property; and

3. Execute, acknowledge, and deliver to Assignee at its expense, such written documents and instruments and do such other acts as may be necessary in the opinion of Assignee, to vest the entire rights, title, and interests in and to the Intellectual Property to Assignee and to confirm the complete ownership thereof by Assignee.

AND WE HEREBY authorize ASSIGNEE to take any and all action necessary to effectuate this Assignment, including but not limited to, the filing of the Assignment with the U.S. Patent and Trademark Office and U.S. Copyright Office.

AND WE HEREBY authorize and request the Director of the U.S. Patent and Trademark Office or any other proper officer or agency throughout the world to issue any and all said letters patent to Assignee.

AND WE HEREBY warrant and covenant that *we* have full rights to convey the entire right, title and interest herein assigned and that *we* have not executed and will not execute any instrument or assignment in conflict herewith;

This Assignment shall be binding upon Assignor(s) and their heirs, successors, and assigns. Should any term of this Assignment be found invalid or unenforceable, it shall not affect the validity or enforceability of any other term of this Assignment. The laws of the State of Indiana will govern the interpretation, validity, and effect of this Assignment, without regard to the place of making or to the place of performance.

This Assignment is hereby made effective as of the conception date of the Technology.

[SIGNATURES ON NEXT PAGE]

IN WITNESS WHEREOF, *We* have hereunto set our hands and seals.

ASSIGNOR:

4/1/13
Date

[Signature]
YOU-YEON WON

County of Tippecanoe)
State of Indiana)

ss:

On this 1 day of April, 2013, before me a Notary Public in and for the County and State aforesaid, personally appeared *YOU-YEON WON*, to me known and known to me to be the person of that name, who signed and sealed the foregoing instrument, and acknowledged the same to be of *his/her* free act and deed.

(SEAL)



Megan K. Shoaf
Notary Public

My commission Expires 08/17/2019



공증인가 법무법인 수호

[제41호서식]

(Tel: 031-715-4411, Fax: 031-715-4393)

Registered No. 2013 - 984

NOTARIAL CERTIFICATE

SUHO LAW & NOTARY OFFICE INC.

#8-2 Gumi-Dong Bundang-gu

Seongnam, Gyunggi-do, Korea

ASSIGNMENT



WHEREAS, *WE, YOU-YEON WON*, citizen of Korea; *DAE HWAN KIM*, citizen of Korea; *RONALD P. ANDRES*, citizen of the United States; (hereinafter "Assignors"), have made or developed a technology identified in a disclosure to Purdue Research Foundation (PRF) and assigned PRF reference number 66166, generally known as:

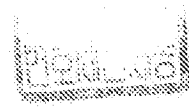
"PREPARATION OF SUPER-STABLE GOLD NANORODS VIA ENCAPSULATION INTO BLOCK COPOLYMER MICELLES",

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WHEREAS, Purdue Research Foundation, a statutory body corporate formed and existing under the Indiana Foundation or Holding Companies Act of 1921, having a place of business at *1281 Win Hentschel Blvd, West Lafayette, IN 47906* (hereinafter "Assignee"), is desirous of accepting and assuming all such right, title, and interests of the Assignor.

4/2/2013
Date

Daehwan Kim
DAE HWAN KIM



County of South Korea)
State of Gyeonggi-do)

ss:

On this 2 day of April, 2013, before me a Notary Public in and for the County and State aforesaid, personally appeared DAE HWAN KIM, to me known and known to me to be the person of that name, who signed and sealed the foregoing instrument, and acknowledged the same to be of [his/her] free act and deed.



Jaesong Shin
Notary Public SHIN JAE SONG
My commission Expires Dec. 31, 2017

등부 2013 년 제 984 호
인 증

Registered No. 2013 - 984
NOTARIAL CERTIFICATE

위 동의서 -----

DAE HWAN KIM

에 기재된 촉탁인 김 대 환 -----
은(는) 본 공증인의 면전에서 위 사서
증서에 자기가 서명 날인한 것임을 자
인하였다.

personally appeared before me and
admitted his(her) subscription to the
attached

ASSIGNMENT

2013 년 4 월 2 일
이 사무소에서 위 인증한다.

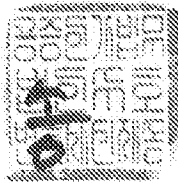
This is hereby attested on this 2 day
of April. 2013. at this office

공증인가 법무법인 수호
소 속 수원지방검찰청
경기도 성남시 분당구 구미동 8-2

SUHO LAW & NOTARY OFFICE INC.
Suwon District Public Prosecutor's Office
#8-2 Gumi-Dong Bundang-gu
Seongnam, Gyunggi-do, Korea

공증담당
변호사

신재송



Jaesong Shin

Signature of the Notary Public SHIN JAE SONG

This office has been authorized by the
Minister of Justice, the Republic of Korea
to act as Notary Public since
March. 31, 2004. under
Law No. 12

4/8/2013
Date

Ronald P. Andres
RONALD P. ANDRES

County of Tippicanoe

State of Indiana }

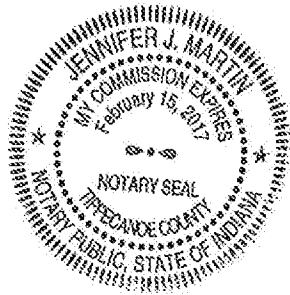
ss:

On this 8th day of April, 2013, before me a Notary Public in and for the County and State aforesaid, personally appeared RONALD P. ANDRES, to me known and known to me to be the person of that name, who signed and sealed the foregoing instrument, and acknowledged the same to be of [his/her] free act and deed.

Jennifer J. Martin
Notary Public

(SEAL)

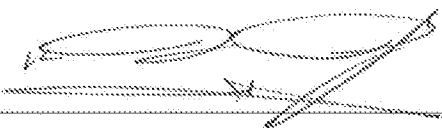
My commission Expires 2/15/2017



ACCEPTED BY ASSIGNEE:

April 12, 2013

Date

By: 

Printed: Hamid R. Piroozi

Title: Legal IP Manager

Office of Technology Commercialization

Purdue Research Foundation