

**PATENT ASSIGNMENT**

Electronic Version v1.1  
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
<b>CONVEYING PARTY DATA</b>											
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Do Hyung Kang</td> <td>07/22/2010</td> </tr> <tr> <td>Kwang Sik Choi</td> <td>07/22/2010</td> </tr> <tr> <td>Hee Do Jeoung</td> <td>07/22/2010</td> </tr> <tr> <td>Heung Sik Park</td> <td>07/22/2010</td> </tr> </tbody> </table>		Name	Execution Date	Do Hyung Kang	07/22/2010	Kwang Sik Choi	07/22/2010	Hee Do Jeoung	07/22/2010	Heung Sik Park	07/22/2010
Name	Execution Date										
Do Hyung Kang	07/22/2010										
Kwang Sik Choi	07/22/2010										
Hee Do Jeoung	07/22/2010										
Heung Sik Park	07/22/2010										
<b>RECEIVING PARTY DATA</b>											
Name:	Korea Ocean Research And Development Institute										
Street Address:	1270, Sa 1-dong										
Internal Address:	Ansan										
City:	Gyeonggi-Do										
State/Country:	REPUBLIC OF KOREA										
Postal Code:	426-171										
<b>PROPERTY NUMBERS Total: 1</b>											
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>12759589</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	12759589						
Property Type	Number										
Application Number:	12759589										
<b>CORRESPONDENCE DATA</b>											
Fax Number:	(617)227-4420										
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>											
Phone:	617-239-0100										
Email:	patent@eapdlaw.com										
Correspondent Name:	Edwards Angell Palmer & Dodge LLP										
Address Line 1:	P.O. Box 55874										
Address Line 4:	Boston, MASSACHUSETTS 02205										
ATTORNEY DOCKET NUMBER:	86016(301264)										
NAME OF SUBMITTER:	Kongsik Kim										

CH \$40.00 12759589

**501251759**

**PATENT  
 REEL: 024782 FRAME: 0442**

Total Attachments: 3

source=86016\_Assignment#page1.tif

source=86016\_Assignment#page2.tif

source=86016\_Assignment#page3.tif

## ASSIGNMENT BY INVENTORS

THIS ASSIGNMENT, made this 22 day of July, 2010, by Do Hyung Kang; Kwang Sik Choi; Hee Do Jeoung; and Heung Sik Park (hereinafter referred to as Assignors), residing at 620-1801, Prugio Daewoo 6Cha Apt., 1512, Sa 1-dong, Sangnok-gu, Ansan, Gyeonggi-Do, REPUBLIC OF KOREA 426-171; 302-306, Daeyu Daerlm Apt., Ildo 2-dong, Jeju, Jeju-Do, REPUBLIC OF KOREA 690-779; 326-4, Samyang 1-dong, Jeju, Jeju-Do, REPUBLIC OF KOREA 690-071; and 25-907, Taeyang Apt., Dapsimini 3-dong, Dongdaemun-gu, Seoul, REPUBLIC OF KOREA 130-033, respectively;

WHEREAS, Assignors have invented certain new and useful improvements in METHOD OF QUANTITATIVE ASSESSMENT ON REPRODUCTIVE EFFORT OF BLACK-LIP PEARL OYSTERS USING ANTIBODY SPECIFIC THERETO, set forth in a Patent application for Letters Patent of the United States, already filed on as U.S. ~~Application No. Not Yet Assigned~~; and Application No. 12/759,589; and

WHEREAS, Korea Ocean Research And Development Institute, having its principal place of business at 1270, Sa 1-dong, Ansan, Gyeonggi-Do, REPUBLIC OF KOREA 426-171 (hereinafter referred to as Assignee), is desirous of acquiring the entire right, title and interest in and to said inventions and said Application for Letters Patent of the United States, and in and to any Letters Patent of the United States to be obtained therefore and thereon.

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and sufficient consideration, the receipt of which is hereby acknowledged, Assignors have sold, assigned, transferred and set over, and by these presents do sell, assign, transfer and set over, unto Assignee, its successors, legal representatives and assigns, the entire right, title and interest in and to the above-mentioned inventions and application for Letters Patent, and in and to any and all direct and indirect divisions, continuations and continuations-in-part of said application, and any and all Letters Patent in the United

States and all foreign countries which may be granted therefor and thereon, and reissues, reexaminations and extensions of said Letters Patent, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by Assignee, for its own use and benefit and the use and benefit of its successors, legal representatives and assigns, to the full end of the term or terms for which Letters Patent may be granted and/or extended, as fully and entirely as the same would have been held and enjoyed by Assignors, had this sale and assignment not been made.

**AND** for the same consideration, Assignors hereby represent and warrant to Assignee, its successors, legal representatives and assigns, that, at the time of execution and delivery of these presents, except for any rights, titles and/or interests that have arisen to Assignee under law or that have already been transferred to Assignee, Assignors are the sole and lawful owners of the entire right, title and interest in and to the said inventions and application for Letters Patent above-mentioned, and that the same are unencumbered and that Assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth.

**AND** for the same consideration, Assignors hereby covenant and agree to and with Assignee, its successors, legal representatives and assigns, that Assignors will sign all papers and documents, take all lawful oaths and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of any Letters Patent and applications for Letters Patent for said inventions, without charge to Assignee, its successors, legal representatives and assigns, whenever counsel of Assignee, or counsel of its successors, legal representatives and assigns, shall advise: that any proceeding in connection with said inventions, or said Patent application for Letters Patent, or any proceeding in connection with any Letters Patent or applications for Letters Patent for said inventions in any country, including but not limited to interference proceedings, is lawful and desirable; or, that any division, continuation or continuation-in-part of any application for Letters Patent, or any reissue, reexamination or extension of any Letters Patent, to be obtained thereon, is lawful and desirable.

**AND** Assignors hereby request the Commissioner of Patent and Trademarks to issue said Letters Patent of the United States to Assignee, as Assignee of said inventions and the Letters Patent to be issued thereon, for the sole use and benefit of Assignee, its successors, legal representatives and assigns.

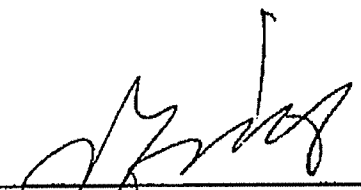
**AND** Assignors hereby grant the following individuals the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document:

**EDWARDS ANGELL PALMER & DODGE LLP**

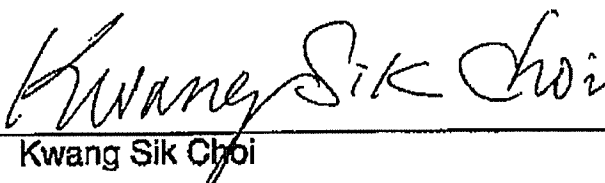
All practitioners at Customer Number 90238

**AND** Assignors acknowledge an obligation of assignment of this invention to Assignee at the time the Invention was made.

Date: 22/07/2010

Signature:   
Do Hyung Kang

Date: 22/07/2010

Signature:   
Kwang Sik Choi

Date: 22/07/2010

Signature:   
Hee Do Jeoung

Date: 22/07/2010

Signature:   
Heung Sik Park