

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>Min Joong Lee</td> <td>07/18/2012</td> </tr> <tr> <td>Jung Min Lee</td> <td>07/18/2012</td> </tr> <tr> <td>Jaimie Y. Park</td> <td>07/18/2012</td> </tr> <tr> <td>Ryan H. Choi</td> <td>07/18/2012</td> </tr> <tr> <td>Chin Wan Chung</td> <td>07/18/2012</td> </tr> </tbody> </table>		Name	Execution Date	Min Joong Lee	07/18/2012	Jung Min Lee	07/18/2012	Jaimie Y. Park	07/18/2012	Ryan H. Choi	07/18/2012	Chin Wan Chung	07/18/2012
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RECEIVING PARTY DATA													
Name:	Korean Advanced Institute of Science and Technology												
Street Address:	373-1, Guseong-dong, Yuseong-gu												
City:	Daejeon												
State/Country:	KOREA, REPUBLIC OF												
Postal Code:	305-701												
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>13566313</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13566313								
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Application Number:	13566313												
CORRESPONDENCE DATA													
Fax Number:	6124553801												
Phone:	612-455-3800												
Email:	lhammel@hsml.com												
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>													
Correspondent Name:	HAMRE, SCHUMANN, MUELLER & LARSON, P.C.												
Address Line 1:	P.O. BOX 2902												
Address Line 4:	MINNEAPOLIS, MINNESOTA 55402-0902												
ATTORNEY DOCKET NUMBER:	20107.0042US01												
NAME OF SUBMITTER:	Curtis B. Hamre												
Total Attachments: 2 source=Assignment_0042#page1.tif source=Assignment_0042#page2.tif													

CH \$40.00 13566313

ASSIGNMENT OF PATENT APPLICATION

WHEREAS,

1. Min Joong LEE residing at 373-1, Guseong-dong, Yuseong-gu, Daejeon, 305-701, Republic of Korea and a citizen of Republic of Korea
2. Jung Min LEE residing at 373-1, Guseong-dong, Yuseong-gu, Daejeon, 305-701, Republic of Korea and a citizen of Republic of Korea
3. Jaimie Y. PARK residing at 373-1, Guseong-dong, Yuseong-gu, Daejeon, 305-701, Republic of Korea and a citizen of Republic of Korea
4. Ryan H. CHOI residing at 373-1, Guseong-dong, Yuseong-gu, Daejeon, 305-701, Republic of Korea and a citizen of Australia
5. Chin Wan CHUNG residing at 373-1, Guseong-dong, Yuseong-gu, Daejeon, 305-701, Republic of Korea and a citizen of United States of America

(hereinafter called "THE UNDERSIGNED") have made an invention and have executed an application for Letters Patent of the United States for this invention which was filed on _____, entitled METHOD FOR UPDATING BETWEENNESS CENTRALITY OF GRAPH, and which has been given application serial number _____ ;

and

WHEREAS KOREAN ADVANCED INSTITUTE OF SCIENCE AND TECHNOLOGY (hereinafter "ASSIGNEE") a corporation organized under the laws of Republic of Korea and having an office and place of business at 373-1, Guseong-dong, Yuseong-gu, Daejeon, 305-701, Republic of Korea wishes to acquire the entire right, title and interest in and to said invention and patent application and any Letters Patent to be obtained therefor;

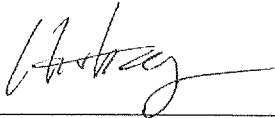
NOW, THEREFORE, for and in consideration of the sum of One Dollar (\$1.00) and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, THE UNDERSIGNED hereby sell, assign, and transfer to the ASSIGNEE, its successors, legal representative and assigns, the entire right, title and interest for the United States in and to the invention disclosed in said application, and in and to said application, as well as to all divisions, continuations, or renewals thereof, all Letters Patent which may be granted therefrom, and all reissues or extensions of such patents, and THE UNDERSIGNED hereby authorize and request the Commissioner of Patents of the United States to issue all Letters Patent for said invention to the ASSIGNEE of the entire right, title and interest in and to the same, in accordance with the terms of this instrument.

THE UNDERSIGNED hereby agree that THE UNDERSIGNED, their executors and legal representatives will make, execute and deliver (without charge but at the expense of the ASSIGNEE) any and all other instruments in writing including any and all further application papers, affidavits, assignments and other documents, and will communicate to

said ASSIGNEE, its successors and representatives all facts known to the UNDERSIGNED relating to said invention and the history thereof and will testify in all legal proceedings and generally do all things which may be necessary or desirable to vest the ASSIGNEE, its successors or assigns, the entire right, title and interest in and to the said invention, patent applications, Letters Patent, rights, titles, benefits, privileges, and advantages hereby sold, assigned and conveyed, or intended so to be.

THE UNDERSIGNED represent and agree with said ASSIGNEE, its successors and assigns, that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been or will be made to others by the UNDERSIGNED, and that full right to convey the same as herein expressed is possessed by the UNDERSIGNED.

IN TESTIMONY WHEREOF, THE UNDERSIGNED have hereunto set their hand on the dates indicated below.



1. Min Joong LEE

July 18, 2012

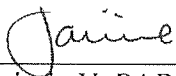
Date



2. Jung Min LEE

July 18, 2012

Date



3. Jaimie Y. PARK

July 18, 2012

Date



4. Ryan H. CHOI

July 18, 2012

Date



5. Chin Wan CHUNG

July 18, 2012

Date