

# 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" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;">Name</th> <th style="width: 30%;">Execution Date</th> </tr> </thead> <tbody> <tr> <td>Sung Hyon Myaeng</td> <td>04/23/2009</td> </tr> <tr> <td>Yu Chul Jung</td> <td>04/23/2009</td> </tr> <tr> <td>Kyung Min Kim</td> <td>04/23/2009</td> </tr> </tbody> </table>		Name	Execution Date	Sung Hyon Myaeng	04/23/2009	Yu Chul Jung	04/23/2009	Kyung Min Kim	04/23/2009		
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<b>RECEIVING PARTY DATA</b>											
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Name:</td> <td>Korea Advanced Institute of Science and Technology</td> </tr> <tr> <td>Street Address:</td> <td>373-1 Guseong-Dong</td> </tr> <tr> <td>Internal Address:</td> <td>Yuseong-Gu</td> </tr> <tr> <td>City:</td> <td>Dae-Jeon</td> </tr> <tr> <td>State/Country:</td> <td>REPUBLIC OF KOREA</td> </tr> </table>		Name:	Korea Advanced Institute of Science and Technology	Street Address:	373-1 Guseong-Dong	Internal Address:	Yuseong-Gu	City:	Dae-Jeon	State/Country:	REPUBLIC OF KOREA
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PROPERTY NUMBERS Total: 1											
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Application Number:	12706826										
<b>CORRESPONDENCE DATA</b>											
<p>Fax Number: (509)838-3424</p> <p><i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 509-624-4276</p> <p>Email: docketing@wellsstjohn.com</p> <p>Correspondent Name: WELLS ST. JOHN P.S.</p> <p>Address Line 1: 601 W. FIRST AVENUE, SUITE 1300</p> <p>Address Line 4: SPOKANE, WASHINGTON 99201</p>											
ATTORNEY DOCKET NUMBER:	AB15-001										
NAME OF SUBMITTER:	D. Brent Kenady										
<p>Total Attachments: 5</p> <p>source=Assignment#page1.tif</p> <p>source=Assignment#page2.tif</p>											

OP \$40.00 12706826

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**PATENT**  
**REEL: 023945 FRAME: 0081**

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**RECORDATION FORM COVER SHEET**  
**PATENTS ONLY**

To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

**1. Name of conveying party(ies)**

Sung Hyon Myaeng  
Yu Chul Jung  
Kyung Min Kim

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

**3. Nature of conveyance/Execution Date(s):**

Execution Date(s) April 23, 2009

- ☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Joint Research Agreement  
☐ Government Interest Assignment  
☐ Executive Order 9424, Confirmatory License  
☐ Other \_\_\_\_\_

**2. Name and address of receiving party(ies)**

Name: Korea Advanced Institute of Science and Technology

Street Address: 373-1 Guseong-Dong, Yuseong-Gu,

City: DaeJeon

State: \_\_\_\_\_

Country: Republic of Korea Zip: \_\_\_\_\_

Additional name(s) & address(es) attached? ☐ Yes ☒ No

**4. Application or patent number(s):**

☒ This document is being filed together with a new application.

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

**5. Name and address to whom correspondence concerning document should be mailed:**

Name: \_\_\_\_\_

Internal Address: Wells St. John, P.S.

Street Address: 601 W 1st Avenue, Suite 1300

City: Spokane

State: WA Zip: 99201

Phone Number: (509) 624-4276

Fax Number: (509) 838-3424

Email Address: docketing@Wellsstjohn.com

**6. Total number of applications and patents involved:** 1

**7. Total fee (37 CFR 1.21(h) & 3.41) \$** 40.00

- ☐ Authorized to be charged to deposit account  
☐ Enclosed  
☐ None required (government interest not affecting title)

**8. Payment Information**

Deposit Account Number \_\_\_\_\_

Authorized User Name \_\_\_\_\_

**9. Signature:**



Signature

2-16-10

Date

D. Brent Kenady, Reg. No. 40045

Name of Person Signing

Total number of pages including cover sheet, attachments, and documents:

5

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to:  
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

**PATENT**  
**REEL: 023945 FRAME: 0083**

## **ASSIGNMENT**

### **PARTIES TO THE ASSIGNMENT:**

#### **Inventors:**

1.

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#### **Assignee:**

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(address)

373-1 Guseong-Dong, Yuseong-Gu, DaeJeon  
Republic of Korea

**BACKGROUND OF THIS ASSIGNMENT:**

Inventors have conceived certain new and useful inventions disclosed in a United States patent application titled THE QUERY/DOCUMENT TOPIC CATEGORY TRANSITION ANALYSIS SYSTEM AND METHOD AND THE QUERY EXPANSION BASED INFORMATION RETRIEVAL SYSTEM AND METHOD (hereinafter referred to as "ASSIGNEE") desires to acquire the entire right, title and interest in said inventions and with respect to any Letters Patent that may be granted with respect to the inventions in both the United States and in all foreign countries.

**THE PARTIES AGREE AS FOLLOWS:**

In consideration of good and valuable consideration, the receipt of which is hereby acknowledged, INVENTORS have sold, assigned and transferred to ASSIGNEE the full and exclusive right to said inventions in the United States and in all foreign countries.

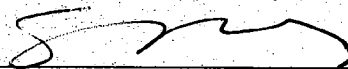
INVENTORS do hereby sell, assign and transfer to ASSIGNEE the entire right, title and interest in the above-identified inventions and application and to any reissues, renewals, divisions or continuations of the application thereof, and hereby authorizes the Commissioner of Patents and Trademarks to issue such Letters Patent to ASSIGNEE for the sole use of ASSIGNEE, its successors or assigns.

INVENTORS further agree to execute, at the request and expense of ASSIGNEE such other formal documents as may be required to fully convey the interest transferred herein and will similarly execute any applications papers required for the filing of any division, continuation or reissue of the patent application or resulting Letters Patent; and will generally do everything necessary or desirable to obtain and enforce proper protection for the inventions assigned hereby.

INVENTORS further assign to ASSIGNEE the whole right, title and interest in the inventions disclosed in the application throughout all countries foreign to the United States. ASSIGNEE is hereby authorized to apply for patents relating to the inventions in its own name in countries where such procedure is proper; to claim the benefit of the International Convention; to file and prosecute International Applications relating to the inventions under the Patent Cooperation Treaty; and to file and prosecute applications relating to the inventions under the European Patent Convention. INVENTORS agree to execute applications relating to the inventions in those countries where it is necessary that the same be executed by the inventor, and to execute assignments of such applications and the resulting Letters Patent to ASSIGNEE as well as all other necessary papers in relation to such applications and the resulting Letters Patent to ASSIGNEE as well as all other necessary papers in relation to such applications and Letters Patent.

1. Signed at Daejeon Korea, on April 23, 2009  
[city] [state]

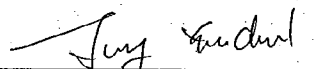
(Inventor's signature)  
(Inventor's name)



MYAENG, Sung Hyon

2. Signed at Daejeon Korea, on April 23, 2009  
[city] [state]

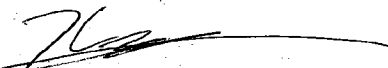
(Inventor's signature)  
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JUNG, Yu Chul

3. Signed at Daejeon Korea, on April 23, 2009  
[city] [state]

(Inventor's signature)  
(Inventor's name)



KIM, Kyung Min