

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

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>David W. Engel</td> <td>07/03/2012</td> </tr> <tr> <td>Michelle L. Gregory</td> <td>07/24/2012</td> </tr> <tr> <td>Eric B. Bell</td> <td>07/23/2012</td> </tr> <tr> <td>Andrew J. Cowell</td> <td>07/02/2012</td> </tr> <tr> <td>Andrew W. Piatt</td> <td>07/02/2012</td> </tr> </tbody> </table>		Name	Execution Date	David W. Engel	07/03/2012	Michelle L. Gregory	07/24/2012	Eric B. Bell	07/23/2012	Andrew J. Cowell	07/02/2012	Andrew W. Piatt	07/02/2012
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Andrew W. Piatt	07/02/2012												
RECEIVING PARTY DATA													
Name:	Battelle Memorial Institute												
Street Address:	P.O. Box 999												
Internal Address:	M/S K1-53												
City:	Richland												
State/Country:	WASHINGTON												
Postal Code:	99352												
PROPERTY NUMBERS Total: 4													
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>61508794</td> </tr> <tr> <td>Application Number:</td> <td>13036776</td> </tr> <tr> <td>Application Number:</td> <td>13540759</td> </tr> <tr> <td>PCT Number:</td> <td>US1246016</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	61508794	Application Number:	13036776	Application Number:	13540759	PCT Number:	US1246016		
Property Type	Number												
Application Number:	61508794												
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PCT Number:	US1246016												
CORRESPONDENCE DATA													
Fax Number:	5093754487												
Phone:	5093756866												
Email:	ipdocket@pnnl.gov												
<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:	Battelle Memorial Institute												
Address Line 1:	P.O. Box 999												

CH \$160.00 61508794

Address Line 2: M/S K1-53
Address Line 4: Richland, WASHINGTON 99352

ATTORNEY DOCKET NUMBER: 17007-E

NAME OF SUBMITTER: Allan C. Tuan

Total Attachments: 7
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ASSIGNMENT OF PATENT RIGHTS

David W. Engel
Michelle L. Gregory
Eric B. Bell
Andrew J. Cowell
Andrew W. Piatt

To
Battelle Memorial Institute

WHEREAS, we, David W. Engel of Kennewick, County of Benton, State of Washington, Michelle L. Gregory of Richland, County of Benton, State of Washington; Eric B. Bell of Richland, County of Benton, State of Washington; Andrew J. Cowell of Kennewick, County of Benton, State of Washington; and Andrew W. Piatt of Kennewick, County of Benton, State of Washington, hereinafter INVENTORS, have made certain inventions related to, **Automatic Identification of Abstract Online Groups**, including those, described and claimed in various disclosures including:

U.S. Provisional Application No. 61/508,794, filed July 18, 2011, Entitled: Automatic Identification of Abstract Online Groups

U.S. Patent Application No. 13/036,776, filed February 28, 2011, Entitled: Isolating Desired Content, Metadata or Both from Social Media

U.S. Patent Application No. 13/540,759, filed July 3, 2012 Entitled: Automatic Identification of Abstract Online Groups

PCT Application No. PCT/US12/46016, filed July 10, 2012 Entitled: Automatic Identification of Abstract Online Groups

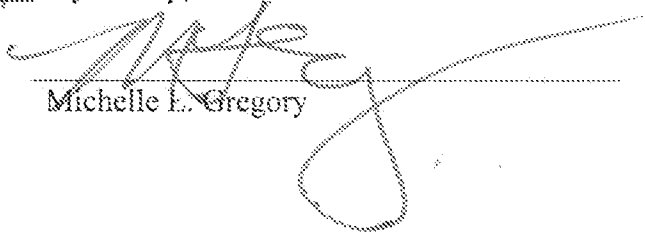
For which we are about to make application for Letters Patent of the United States; collectively referred to hereinafter as INVENTIONS;

WHEREAS Battelle Memorial Institute, a corporation of Ohio, organized and existing under the laws of the State of Ohio, and having a place of business in the City of Richland, Washington, is desirous of acquiring all right, title, and interest in the said INVENTIONS and in all patents or patent applications sought or obtained therefor;

NOW, THEREFORE, be it known to all those who may be concerned, that for and in consideration of the sum of One Dollar (\$1.00) each, and other good and valuable considerations, the receipt of which is hereby acknowledged, We the INVENTORS have each sold, assigned, and transferred, and by these presents do sell, assign and transfer unto the said Battelle Memorial Institute, the entire right, title, and interest in and to the INVENTIONS shown, described, or claimed herein, and the full and exclusive right, title, and interest to any and all patents and patent applications that show, describe or claim said INVENTIONS including but not limited to those applications referenced herein, and in and to any extensions, continuations, including continuations in part, reissues, divisions, or renewals thereof; and We each do hereby authorize and request the Commissioner of Patents or other proper Officer, to issue such Letters Patent, or any of them to the said Battelle Memorial Institute, as the assignee of my entire right, title, and interest in and to the same for the sole use and benefit of the said Battelle Memorial Institute, and its successors or assigns.

We each further covenant and agree that we each will, at the request and expense of the said Battelle Memorial Institute, execute such other and further assurances of title as may be necessary or proper to fully convey the interest herein sought to be conveyed; and that each of us will, at the request and expense of the said Battelle Memorial Institute, execute such application papers as may be desired by the said Battelle Memorial Institute, for the filing of any division or renewal of the application herein conveyed, or for reissues or extensions (including continuations or continuations in part

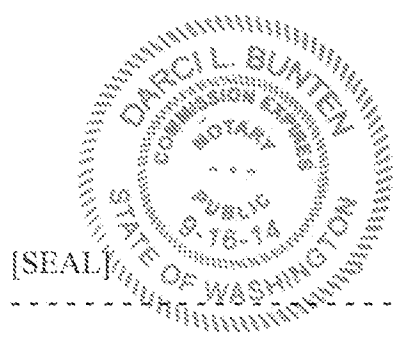
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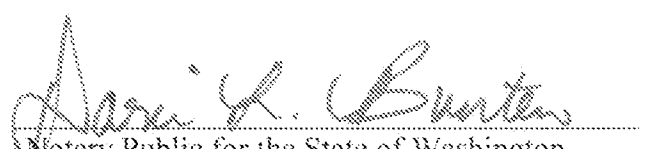


Michelle L. Gregory

STATE OF WASHINGTON)
) ss.
County of Benton)

This 24 day of July, 2012, before me personally came the above-named Michelle L. Gregory who executed the foregoing instrument in my presence, and who acknowledged to me that he executed the same of his own free will for the purposes set forth therein.





Notary Public for the State of Washington.
My commission expires: 9/16/14

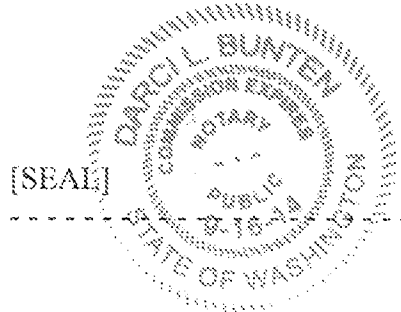
Executed at Richland, State of Washington, this 23 day of July, 2012.

Eric B. Bell
Eric B. Bell

STATE OF WASHINGTON)
) ss.
County of Benton)

This 23 day of July, 2012, before me personally came the above-named Eric B. Bell who executed the foregoing instrument in my presence, and who acknowledged to me that he executed the same of his own free will for the purposes set forth therein.

Darci L. Bunter
Notary Public for the State of Washington.
My commission expires: 9/16/14



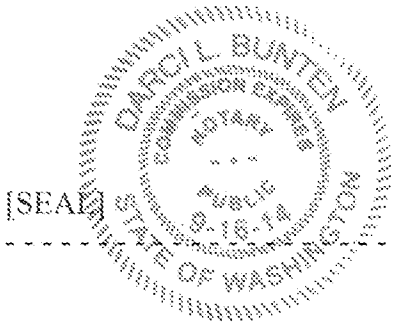
Executed at Richland, State of Washington, this 2nd day of July, 2012.

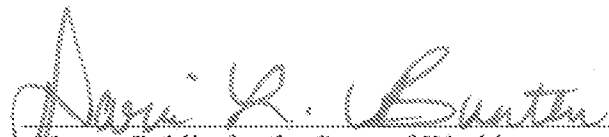


Andrew J. Cowell

STATE OF WASHINGTON)
) ss.
County of Benton)

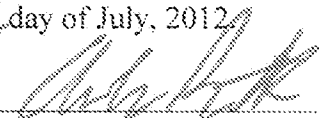
This 2nd day of July, 2012, before me personally came the above-named Andrew J. Cowell who executed the foregoing instrument in my presence, and who acknowledged to me that he executed the same of his own free will for the purposes set forth therein.





Notary Public for the State of Washington,
My commission expires: 9/18/14

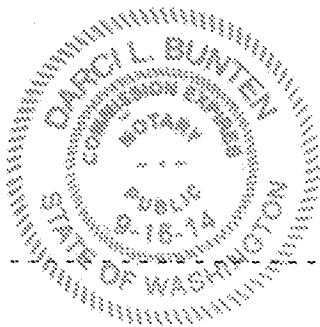
Executed at Richland, State of Washington, this 1st day of July, 2012.




Andrew W. Piatt

STATE OF WASHINGTON)
) ss.
County of Benton)

This 2nd day of July, 2012, before me personally came the above-named Andrew J. Piatt who executed the foregoing instrument in my presence, and who acknowledged to me that he executed the same of his own free will for the purposes set forth therein.



[SEAL]



Notary Public for the State of Washington.
My commission expires: 9/18/14