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Atty Ref/Docket No.: 2413.062US1

Patent and Trademark Office

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1. Name of conveying party(ies):

Hassan Haider Malik, John Ronald Kender

Additional name(s) of conveying party(ies) attached?

[ ] Yes [X] No

3. Nature of conveyance:

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[ ] Security Agreement [ ] Change of Name

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Execution Date: January 19, 2010, March 4, 2010

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

Name: The Trustees of Columbia University in the City of New York

Street Address: 535 West 116th Street  
412 Low Memorial LibraryCity: New York State: New York Zip: 10027Country: United States of AmericaAdditional name(s) & address(es) attached? [ ] Yes  
[X] No

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

If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No.(s)

Serial No. 12/602,908, filed December 3, 2009

B. Patent No.(s)

Additional numbers attached? [ ] Yes [X] No

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

Name: John I. Fischer

Address:

Schwegman, Lundberg &amp; Woessner, P.A.

P.O. Box 2938

Minneapolis, MN 55402--0938

6. Total number of applications and patents involved: 17. Total fee (37 CFR 3.41): \$ 40.00

[ ] Enclosed

[X] Authorized to be charged to deposit account  
19-0743

8. Please charge any additional fees or credit any over payments to our Deposit Account No.: 19-0743

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9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

John I. Fischer/Reg. No. 60,900

Name of Person Signing

Signature

18 Mar 2010

Date

Total number of pages including cover sheet: 5

Mail documents to be recorded with required cover sheet information to:

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PATENT  
REEL: 024102 FRAME: 0347

CH \$40.00 190743 12602908

Attorney Docket No. 2413.062US1  
Client Ref. No. M07-091/2413.062US1/JS/CC

### ASSIGNMENT

WHEREAS, We, Hassan Haider Malik, residing at 402 Pheasant Run, Monmouth Junction, New Jersey 08852, and John Ronald Kender, residing at 169 Ames Avenue, Leonia, New Jersey 07605, made certain new and useful inventions and improvements which are described in an application for U.S. Letters Patent on December 3, 2009, which application was assigned U.S. patent application serial number 12/602,908, and is entitled DATA CLASSIFICATION AND HIERARCHICAL CLUSTERING;

FOR GOOD AND VALUABLE CONSIDERATION, the receipt, sufficiency and adequacy of which are hereby acknowledged, the undersigned do hereby:

SELL, ASSIGN AND TRANSFER to The Trustees of Columbia University in the City of New York (the "Assignee"), a corporation of the State of New York, having a place of business at 535 West 116th Street, 412 Low Memorial Library, New York, New York 10027, the entire right, title and interest for the United States and all foreign countries in and to: any and all inventions and improvements which are disclosed in the identified application for U.S. Letters Patent, and which may be further identified below; such application and all divisional, continuing, substitute, renewal, reissue and all other applications for patent which have been or shall be filed in the United States (including all provisional and non-provisional applications), and in all foreign countries on any of such inventions and/or improvements (including any applications for utility models); all original and reissued patents which have been or shall be issued in the United States and all foreign countries on such inventions and/or improvements; and specifically including the right to file foreign applications under the provisions of any convention or treaty and to claim priority based on the identified application;

AUTHORIZE AND REQUEST that any attorney associated with U.S. PTO Customer No. 68836 may (directly or through his/her designee) delete, insert, or alter any information identifying this application, or any related application, below, after execution of this Assignment;

#### Additional Application Information

*U.S. Provisional Application Serial No. 60/943,218, filed on June 11, 2007.*

*U.S. Provisional Application Serial No. 60/950,134, filed on July 17, 2007.*

*U.S. Provisional Application Serial No. 60/963,600, filed on August 6, 2007.*

*International Application Serial No. PCT/US2008/007308, filed on June 11, 2008.*

## ASSIGNMENT

Client Ref. No. M07-091/2413.062US1/JS/CC

Assignors: Hassan Haider Malik et al.

Title: DATA CLASSIFICATION AND HIERARCHICAL CLUSTERING

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Docket No: 2413.062US1

Serial Number: 12/602,908

AUTHORIZE AND REQUEST the issuing authority to issue any and all United States and foreign patents granted on such improvements to the Assignee;

WARRANT AND COVENANT that no assignment, grant, mortgage, license or other agreement affecting the rights and/or property herein conveyed has been or will be made to others by the undersigned, and that the full right to convey the same as herein expressed is possessed by the undersigned;

COVENANT, that when requested and without compensation, but at the expense of the Assignee, in order to carry out in good faith the intent and purpose of this Assignment, the undersigned will (1) execute all provisional, non-provisional, divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all such improvements; (2) execute all rightful oaths, declarations, assignments, powers of attorney and other papers; (3) communicate to the Assignee all facts known to the undersigned relating to such improvements and the history thereof; (4) cooperate with the Assignee in any interference, reexamination, reissue, opposition, dispute, or litigation involving any of the applications or patents for such improvements; and (5) take such further actions as the Assignee shall reasonably consider necessary or desirable for vesting title to such improvements in the Assignee, or for securing, maintaining and enforcing proper patent protection for such improvements;

THIS AGREEMENT IS TO BE BINDING on the heirs, assigns, representatives and successors of the undersigned, and is to extend to the benefit of the successors, assigns and nominees of the Assignee.

AGREED as of the date of my signature below:

## ASSIGNMENT

Client Ref. No. M07-091/2413.062US1/JS/CC

Assignors: Hassan Haider Malik et al.

Title: DATA CLASSIFICATION AND HIERARCHICAL CLUSTERING

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Docket No: 2413.062US1

Serial Number: 12/602,908

IN TESTIMONY WHEREOF, I have hereunto set my hand this 19 day ofJanuary, 2010.

Hassan Haider Malik

STATE OF NY )

)ss

COUNTY OF NY )

On this 19 day of January, 2010 before me personally appeared Hassan Haider Malik, to me known and known to me to be the person described in and who executed the foregoing instrument, and he/she duly acknowledged to me that he/she executed the same for the uses and purposes therein set forth.

[SEAL]



Notary Public

LOVELYN SARMIENTO  
Notary Public - State of New York  
No. 01065143567  
Qualified in Kings County  
My Commission Expires March 17, 2012

## ASSIGNMENT

Client Ref. No. M07-091/2413.062US1/JS/CC

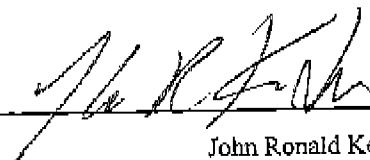
Assignors: Hassan Haider Malik et al.

Title: DATA CLASSIFICATION AND HIERARCHICAL CLUSTERING

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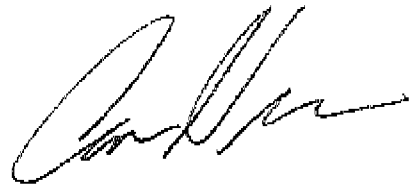
Docket No: 2413.062US1

Serial Number: 12/602.908

IN TESTIMONY WHEREOF, I have hereunto set my hand this 4 day ofMarch, 2010.  
\_\_\_\_\_  
John Ronald KenderSTATE OF NY )  
 )ss  
COUNTY OF NY )

On this 4 day of March, 2010 before me personally appeared John Ronald Kender, to me known and known to me to be the person described in and who executed the foregoing instrument, and he/she duly acknowledged to me that he/she executed the same for the uses and purposes therein set forth.

[SEAL]

  
\_\_\_\_\_  
CARMEN NIEVES  
Notary Public, State of New York  
No. 01N16081996  
Qualified in Westchester County  
Commission Expires October 21, 2010

Notary Public

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PATENT PROTECTION FOR HIGH TECHNOLOGY

P.O. Box 2938  
Minneapolis, MN 55402  
Telephone (612) 373-6900 Facsimile (612) 339-3061

Date: March 18, 2010Time: 11:25  
(Minneapolis, Minn.)

TO: Commissioner for Patents  
Attn: Assignment Recordation Services  
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**FAX NUMBER 571-273-0140**

FROM: John I. FischerOUR REF: 2413.062US1**\*Please deliver to Assignment Recordation Services\***

Document(s) Transmitted: **Assignment (4 pgs.), Recordation Form Cover Sheet (1 pg.),**  
**Authorization to charge Deposit Account 19-0743 in the amount of \$40.00 to cover the recordation**  
**fee.**

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If you do NOT receive all of the pages described above, please telephone us at 612-373-6900 or fax us  
at 612-339-3061.

In re. Patent Application of: Hassan Haider Malik et al.Examiner: UnknownSerial No.: 12/602,908Group Art Unit: UnknownFiled: December 3, 2009Docket No.: 2413.062US1Title: DATA CLASSIFICATION AND HIERARCHICAL CLUSTERING

Please charge any additional fees or credit overpayment to Deposit Account No. 19-0743.

By: [Signature]  
Name: John I. Fischer  
USPTO Reg. No. 60,900

I hereby certify that this paper is being transmitted by facsimile to the U.S. Patent and Trademark Office on the date shown below.

[Signature]  
Sheena Devine-Remitz

03-18-2010  
Date of Transmission