

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>Nabendu Chaki</td> <td>03/14/2012</td> </tr> <tr> <td>Soumya Sen</td> <td>03/14/2012</td> </tr> </tbody> </table>		Name	Execution Date	Nabendu Chaki	03/14/2012	Soumya Sen	03/14/2012
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Nabendu Chaki	03/14/2012						
Soumya Sen	03/14/2012						
RECEIVING PARTY DATA							
Name:	University of Calcutta						
Street Address:	92 A.P.C. Road						
City:	Kolkata, West Bengal						
State/Country:	INDIA						
Postal Code:	700009						
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>13496705</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13496705		
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Application Number:	13496705						
CORRESPONDENCE DATA							
Fax Number:	(312)913-0002						
Phone:	312-913-0001						
Email:	hemdon@mbhb.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:	McDonnell Boehnen Hulbert & Berghoff LLP						
Address Line 1:	300 S. Wacker Drive						
Address Line 2:	Suite 3100						
Address Line 4:	Chicago, ILLINOIS 60606						
ATTORNEY DOCKET NUMBER:	10-222-US						
NAME OF SUBMITTER:	Joseph A. Herndon						
Total Attachments: 4 source=10-222-US Assignment#page1.tif source=10-222-US Assignment#page2.tif source=10-222-US Assignment#page3.tif source=10-222-US Assignment#page4.tif							

CH \$40.00 13496705

ASSIGNMENT OF PATENT RIGHTS

For valuable consideration, the receipt and sufficiency of which is hereby acknowledged, Nabendu CHAKI, 67 Sukanta Park, Kolkata - 700101, India and Soumya SEN, 7B Gopi Krishna Paul Lane, Kolkata - 700006, India

([collectively,] “Assignor”),

effective as of December 03, 2009 hereby sells, assigns, transfers, and conveys unto University Of Calcutta, 92 A.P.C. Road, Kolkata 700009, West Bengal, India (“Assignee”), all right, title, and interest that exist today and may exist in the future in and to any and all of the following (collectively, the “Rights”):

1. the inventions disclosed in the solution report/invention disclosure titled HYPER-LATTICE: A NOVEL MODEL FOR OPTIMIZED SEQUENCING OF OLAP OPERATIONS ON DATA WAREHOUSES and all inventions claimed and/or described in the Application (collectively, the “Invention”);
2. the patent applications listed in the table below (the “Application”);

Patent Application No.	Country	Filing Date	Title
699/KOL/2010	India	June 28, 2010	Hyper-lattice model for optimized sequencing of online analytical processing (OLAP) operations on data warehouses

3. all rights with respect to the Invention, including all UNITED STATES patents or other governmental grants or issuances that may be granted with respect to the Invention or from any direct or indirect divisionals, continuations, continuations-in-part, or other patent applications claiming priority rights from the Application (“Potential Patents”);
4. all reissues, reexaminations, extensions, or registrations of the Potential Patents;
5. all non-United States patents, patent applications, and counterparts relating to any or all of the Invention, the Application, and the Potential Patents, including, without limitation, certificates of invention, utility models, industrial design protection, design patent protection, and other governmental grants or issuances (“Foreign Rights”), and including the right to file foreign applications directly in the name of Assignee, its successors and assigns;
6. all rights to claim priority rights deriving from the Application;
7. all causes of action and remedies related to any or all of the Application, the Invention, the Potential Patents, and the Foreign Rights (including, without limitation, the right to sue for past, present, or future infringement, misappropriation or violation of rights related to any of the foregoing and the right to collect royalties and other payments under or on account of any of the foregoing); and
8. any and all other rights and interests arising out of, in connection with, or in relation to the Application, the Invention, Potential Patents, and the Foreign Rights.

Assignor will not sign any document or do any act conflicting with this Assignment, and, without further compensation, will sign all documents and do such additional acts as Assignee, its successors, legal representatives, and assigns deem necessary or desirable to perfect enjoyment of the Rights, conduct proceedings regarding the Rights (including any litigation or interference proceedings), or perfect or defend title to the Rights. Assignor requests the respective patent office or governmental agency in each jurisdiction to issue any and all patents, certificates of invention, utility models, or other governmental grants or issuances that may be granted upon any of the Rights in the name of the Assignee, as the assignee to the entire interest therein.

Assignor hereby authorizes and requests authorized representative to insert on this Assignment the filing date and Patent Application Numbers in the table above when known.

The terms and conditions of this Assignment will inure to the benefit of Assignee, its successors, legal representatives, and assigns and will be binding upon Assignor, their successors, legal representatives and assigns.

[Signature Page(s) to Follow]

By: Nabendu Chaki
Print name: Nabendu CHAKI

ATTESTATION

The undersigned witnessed the signature of Nabendu CHAKI to this document and makes the following statements:

1. I am over the age of 18 and competent to testify as to the facts in this Attestation block if called upon to do so.
2. Nabendu CHAKI is personally known to me (or proved to me on the basis of satisfactory evidence) and appeared before me on March 14, 2019 to execute this document.
3. Nabendu CHAKI subscribed to this document.

I declare under penalty of perjury under the laws of the United States of America, and under penalty of the laws of any other jurisdiction before which this document may be presented, that the foregoing is true and correct.

By: Amlan Chakrabarti
Print name: [Name of 1st Attestor] AMLAN CHAKRABARTI

By: Sankhayan Choudhury
Print name: [Name of 2nd Attestor] SANKHAYAN CHOUDHURY

By: *Soumya SEN*
Print name: Soumya SEN

ATTESTATION

The undersigned witnessed the signature of Soumya SEN to this document and makes the following statements:

1. I am over the age of 18 and competent to testify as to the facts in this Attestation block if called upon to do so.
2. Soumya SEN is personally known to me (or proved to me on the basis of satisfactory evidence) and appeared before me on March 14 2012 to execute this document.
3. Soumya SEN subscribed to this document.

I declare under penalty of perjury under the laws of the United States of America, and under penalty of the laws of any other jurisdiction before which this document may be presented, that the foregoing is true and correct.

By: *Amlan Chakrabarti*
Print name: [Name of 1st Attestor] AMLAN CHAKRABARTI

By: *Sankhayan Choudhury*
Print name: [Name of 2nd Attestor] SANKHAYAN CHOUDHURY