

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT3038991

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| VIDYASAGAR REDDY | 08/18/2014 |
| MANASA RANJAN TRIPATHY | 08/18/2014 |
| KRISHNA SASANK TALASILA | 09/19/2014 |
| GANESH VAITHEESWARAN | 08/18/2014 |
| ARINDAM BHATTACHARJEE | 08/18/2014 |
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| City: | WALLDORF |
| State/Country: | GERMANY |
| Postal Code: | D-69190 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 13744227 |
| CORRESPONDENCE DATA | |
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| NAME OF SUBMITTER: | JEFFREY J. MIKRUT |
| SIGNATURE: | /Jeffrey J. Mikrut/ |
| DATE SIGNED: | 09/25/2014 |
| Total Attachments: 6 | |
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ASSIGNMENT

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, each undersigned inventor (hereinafter referred to singly and collectively as "ASSIGNOR") has sold, assigned, and transferred, and by these presents hereby sells, assigns, and transfers, unto

SAP AG
Dietmar-Hopp-Allee 16
D-69190 Walldorf
Germany

(hereinafter referred to as "ASSIGNEE") its successors and assigns, the full and exclusive right, title and interest for the United States, its territories and possessions in and to this invention relating to

SYSTEMS AND METHODS FOR SEARCHING DATA STRUCTURES OF A DATABASE

as set forth in this United States Patent Application

Check one

| | |
|-------------------------------------|--|
| <input type="checkbox"/> | executed concurrently herewith |
| <input type="checkbox"/> | executed on _____ |
| <input checked="" type="checkbox"/> | Serial No. 13/744,227 Filed <u>1/17/2013</u> |

as well as in and to (a) all improvements and modifications of the above-identified invention or inventions, (b) the above-identified application and all other applications for Letters Patent of the United States for above-identified invention or inventions and all improvements and modifications thereof, (c) all Letters Patent which may issue from said applications in the United States, (d) all divisions, continuations, reissues, and extensions of said applications and Letters Patent, and (e) the right to claim for any of said applications the full benefits and priority rights under the Patent Cooperation Treaty, the Paris Convention and any other international agreement; such right, title, and interest to be held and enjoyed by ASSIGNEE, its successors and assigns, to the full end of the term or terms for which any and all such Letters Patent may be granted as fully and entirely as would have been held and enjoyed by ASSIGNOR had this Assignment not been made.

ASSIGNOR HEREBY AUTHORIZES AND REQUESTS the Commissioner of Patents and Trademarks to issue said Letters Patent to ASSIGNEE as assignee of the entire interest, for the sole use and benefit of ASSIGNEE, its successors and assigns.

ASSIGNOR HEREBY AGREES (a) to communicate to ASSIGNEE, its successors and assigns, or their representative or agents, all facts and information known or available to ASSIGNOR respecting said invention or inventions, improvements, and modifications including evidence for interference, reexamination, reissue, opposition, revocation, extension, or infringement purposes or other legal, judicial, or administrative proceedings, whenever requested by ASSIGNEE; (b) to testify in person or by affidavit as required by ASSIGNEE, its successors and assigns, in any such proceeding in the United States; (c) to execute and deliver, upon request by ASSIGNEE, all lawful papers including, but not limited to, original, divisional, continuation,

upon request by ASSIGNEE, all lawful papers including, but not limited to, original, divisional, continuation, and reissue applications, renewals, assignments, powers of attorney, oaths, affidavits, and declarations, depositions; and (d) to provide all reasonable assistance to ASSIGNEE, its successors and assigns, in obtaining and enforcing proper title in and protection for said invention or inventions, improvements, and modifications under the intellectual property laws of the United States and countries foreign thereto.

ASSIGNOR HEREBY REPRESENTS AND WARRANTS that ASSIGNOR has the full and unencumbered right to sell, assign, and transfer the interests sold, assigned, and transferred herein, and that ASSIGNOR has not executed and will not execute any document or instrument in conflict herewith.

ASSIGNOR HEREBY GRANTS to the law firm of **Foley & Lardner LLP** the power and authority to insert in this Assignment any further identification which may be necessary or desirable to comply with the rules of the U.S. Patent and Trademark Office for recordation of this Assignment.

ASSIGNOR UNDERSTANDS AND AGREES that the attorneys and agents of the law firm of **Foley & Lardner LLP** do not personally represent ASSIGNOR OR ASSIGNOR's legal interests, but instead represent the interests of ASSIGNEE; since said attorneys and agents cannot provide legal advice to ASSIGNOR with respect to this Assignment, ASSIGNOR acknowledges its right to seek its own independent legal counsel.

NAME AND SIGNATURE OF INVENTOR

NAME: VIDYASAGAR REDDY SIGNATURE: V. S. Vidyasagar Reddy DATE: 18/08/2014

NAME AND SIGNATURE OF WITNESSES

NAME: K. Anup Kumar Rao SIGNATURE: [Signature] DATE: 18/Aug/2014

NAME: NITHIN KAMATH SIGNATURE: [Signature] DATE: 18/Aug/2014

Note: *Prima facie* evidence of execution may optionally be obtained by execution before a U.S. Consul or before a local officer authorized to administer oaths whose authority is proved by a certificate from a U.S. Consul.

NAME AND SIGNATURE OF INVENTOR

NAME: MANASA RANJAN TRIPATHY SIGNATURE: Manasa Ranjan Tripathy DATE: 18/Aug/2014

NAME AND SIGNATURE OF WITNESSES

NAME: K. Anupkumar Roy SIGNATURE: [Signature] DATE: 18/Aug/2014

NAME: NITHIN KANYATH SIGNATURE: [Signature] DATE: 18/Aug/2014

Note: *Prima facie* evidence of execution may optionally be obtained by execution before a U.S. Consul or before a local officer authorized to administer oaths whose authority is proved by a certificate from a U.S. Consul.

NAME AND SIGNATURE OF INVENTOR

NAME: KRISHNA SASANK TALASILA SIGNATURE: J.K. Sasank DATE: 09/19/2014

NAME AND SIGNATURE OF WITNESSES

NAME: _____ SIGNATURE: _____ DATE: _____

NAME: _____ SIGNATURE: _____ DATE: _____

Note: *Prima facie* evidence of execution may optionally be obtained by execution before a U.S. Consul or before a local officer authorized to administer oaths whose authority is proved by a certificate from a U.S. Consul.

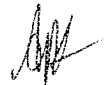
NAME AND SIGNATURE OF INVENTOR

NAME: GANESH VAITHEESWARAN


SIGNATURE: 

DATE: 18/Aug/2014

NAME AND SIGNATURE OF WITNESSES

NAME: K. Anup Kumar Rao SIGNATURE: 

DATE: 18/Aug/2014

NAME: NITHIN KAMATH SIGNATURE: 

DATE: 18/Aug/2014

Note: *Prima facie* evidence of execution may optionally be obtained by execution before a U.S. Consul or before a local officer authorized to administer oaths whose authority is proved by a certificate from a U.S. Consul.

NAME AND SIGNATURE OF INVENTOR

NAME: ARINDAM BHATTACHARJEE

SIGNATURE: Arindam Bhattacharjee

DATE: 18-Aug-2014

NAME AND SIGNATURE OF WITNESSES

NAME: K. Anup Kumar, Rep^o

SIGNATURE: [Signature]

DATE: 18-Aug-2014

NAME: NITHIN KANARA

SIGNATURE: [Signature]

DATE: 18-Aug-2014

Note: *Prima facie* evidence of execution may optionally be obtained by execution before a U.S. Consul or before a local officer authorized to administer oaths whose authority is proved by a certificate from a U.S. Consul.