

PATENT ASSIGNMENT COVER SHEET

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| JOHN MATHUNNY | 08/17/2017 |
| RECEIVING PARTY DATA | |
| Name: | CA, INC. |
| Street Address: | 520 MADISON AVENUE |
| Internal Address: | 22ND FLOOR |
| City: | NEW YORK |
| State/Country: | NEW YORK |
| Postal Code: | 10022-4327 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 15681158 |
| CORRESPONDENCE DATA | |
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| NAME OF SUBMITTER: | ANTHONY B. WINGROVE |
| SIGNATURE: | /ANTHONY B. WINGROVE/ |
| DATE SIGNED: | 08/18/2017 |
| Total Attachments: 2 | |
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| source=Inventor_Mathunny_EXECUTED_Assignment#page2.tif | |

ASSIGNMENT

WHEREAS, I, JOHN MATHUNNY ("ASSIGNOR"), am the original inventor, and have invented certain new and useful improvements in subject matter disclosed and/or claimed in a patent application titled

TWO PHASE RETRIEVAL USING NAMED GRAPHS

for which we are about to make, or have made, application for Letters Patent of the United States. ASSIGNOR hereby authorizes legal representatives of Shook, Hardy & Bacon L.L.P. to insert here in parentheses the Application No. 15/681,158, and Filing Date 2017-08-18, when known; and

WHEREAS, CA, Inc., a corporation duly organized under the laws of the State of Delaware, and having its principal place of business at 520 Madison Avenue, 22nd Floor, New York, NY 10022-4327 ("ASSIGNEE"), is desirous of acquiring an interest in, to and under said invention, said application and any and all Letters Patent which may be granted for or upon said invention in the United States of America and all countries foreign thereto;

NOW, THEREFORE, to all whom it may concern, be it known that for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, ASSIGNOR has sold, assigned and transferred, and by these presents do sell, assign and transfer unto ASSIGNEE, the full and exclusive right, title and interest, throughout the world, in, to and under said invention as fully set forth and described in the specification prepared and executed by us herewith preparatory to obtaining Letters Patent of the United States therefor; in, to and under said application; in, to and under any and all refilings, divisions and continuations of said application; in, to and under

any and all Letters Patent of the United States of America which may issue from said application, refilings, divisions and continuations; in, to and under any and all reissues of said Letters Patent of the United States of America; in, to and under any and all applications for Letters Patent upon said invention which may hereafter be filed in any and all countries foreign to the United States of America; in, to and under any and all refilings, divisions and continuations of said foreign-filed applications; in, to and under any and all Letters Patent of countries foreign to the United States of America, which may issue from the said foreign-filed applications, refilings, divisions and continuations; and in, to and under any and all extensions of, and additions to, said Letters Patent of countries foreign to the United States of America, the same to be held and enjoyed by said ASSIGNEE for its own use and behoof, and for its successors, legal representatives and assigns, to the full end of the term for which said Letters Patent may be granted, and we do hereby authorize and request the Commissioner of Patents to issue the said Letters Patent in accordance with this assignment.

EXECUTED this 17th day of August, 2017.



JOHN MATHUNNY