PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT2884303

| SUBMISSION TYPE: | NEW ASSIGNMENT |
|-----------------------|----------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT |

CONVEYING PARTY DATA

| Name | Execution Date |
|---------------------------|----------------|
| SULIYANG | 04/22/2014 |
| KISHORE KASI UDAYASHANKAR | 04/16/2014 |
| JINGXIN FENG | 04/16/2014 |
| SWETHA KRISHNAN | 04/16/2014 |
| KIRAN SRINIVASAN | 04/15/2014 |

RECEIVING PARTY DATA

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| Street Address: | 495 EAST JAVA DRIVE |
| City: | SUNNYVALE |
| State/Country: | CALIFORNIA |
| Postal Code: | 94089 |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 14164077 |

CORRESPONDENCE DATA

Fax Number: (585)270-2179

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

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| ATTORNEY DOCKET NUMBER: | 43872.0880 |
|-------------------------|--|
| NAME OF SUBMITTER: | MARY FRANCES HEEKS |
| SIGNATURE: | /Mary Frances Heeks/ |
| DATE SIGNED: | 06/04/2014 |
| | This document serves as an Oath/Declaration (37 CFR 1.63). |
| | • |

Total Attachments: 3

PATENT **REEL: 033029 FRAME: 0456** source=20140602_Assignment_43872_0880#page1.tif source=20140602_Assignment_43872_0880#page2.tif source=20140602_Assignment_43872_0880#page3.tif

> PATENT REEL: 033029 FRAME: 0457

PATENT APPLICATION COMBINED DECLARATION AND ASSIGNMENT

Declaration

Invention Title: METHODS FOR COMBINING ACCESS HISTORY AND SEQUENTIALITY FOR INTELLIGENT PREFETCHING AND DEVICES THEREOF

As the below named inventor, I hereby declare that this declaration is directed to:

🗷 The attached application, or United States application number

14/164,077

filed January 24, 2014

I hereby authorize the legal representatives for NetApp, Inc., of LeClairRyan, a Professional Corporation, 70 Linden Oaks, Suite 210, Rochester, New York 14625, who are associated with customer number 119915, to insert above this application U.S. application number and filing date, when known.

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

I have reviewed and understood the contents of the application's specification and claims. I acknowledge the duty to disclose all information which is material to patentability as defined in 37 CFR 1.56.

Assignment

NetApp, Inc., a company organized under the laws of the country of the United States of America, on behalf of itself and its successors and assigns ("NetApp"), is entitled to, and is desirous of, acquiring the entire and exclusive rights, title and interest in the invention and the application, which includes all other applications and patents derived therefrom, such as continuing applications, in and for the United States, its territories, and all foreign countries;

For good and valuable consideration, the receipt of which is hereby acknowledged, I hereby sell, assign and transfer to NetApp the entire and exclusive rights, title and interest in the invention and the application, including the right to sue for past infringement, for which I have received adequate consideration, and I expressly disclaim any additional rights to royalties, consideration or other payments;

I agree to execute all instruments and documents required for the making and prosecution of the invention and the application, for litigation regarding letters patent derived therefrom and for the purpose of protecting and perfecting title to the invention and the application.

| Inventor: | Suli Yáng | | | | |
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| Home Address: | 4725 Sheboygan Ave | nue, Apt. 14 | 6, Madisc | on, WI 53 | 3705 USA |
| Citizenship: | <u>China</u> | | | | |
| Signature | sili i | may | | | Date 4/22/2014 |
| ~~~ | | <u> </u> | | *** | |
| Inventor: | Kishore Kasi Udayasi | ankar | | | |
| Home Address: | 4301 Renaissance D | rive, Apt. 12 | l, San Jos | se, CA 95 | 5134 USA |
| Citizenship: | <u>India</u> | | | | |
| Clamatorna | | | | | ** |
| Signature | | | | | Date |

PATENT APPLICATION COMBINED DECLARATION AND ASSIGNMENT

Declaration

| Invention Title: METHODS FOR COMBINING ACCESS HISTORY AND SEQUENTIALITY FOR INTELLIGENT PREFETCHING AND DEVICES THEREOF | | | |
|---|--|--|--|
| As the below named inventor, I hereby declare that this declaration is directed to: | | | |
| ☑ The attached application, or United States application number14/164,077 | | | |
| filed January 24, 2014. | | | |
| I hereby authorize the legal representatives for NetApp, Inc., of LeClairRyan, a Professional Corporation, 70 Linden Oaks, Suite 210, Rochester, New York 14625, who are associated with customer number 119915, to insert above this application U.S. application number and filing date, when known. | | | |
| The above-identified application was made or authorized to be made by me. | | | |
| I believe that I am the original inventor or an original joint inventor of a claimed invention in the | | | |
| application. | | | |
| I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both. | | | |
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| For good and valuable consideration, the receipt of which is hereby acknowledged, I hereby sell, assign and transfer to NetApp the entire and exclusive rights, title and interest in the invention and the application, including the right to sue for past infringement, for which I have received adequate consideration, and I expressly disclaim any additional rights to royalties, consideration or other payments; | | | |
| I agree to execute all instruments and documents required for the making and prosecution of the invention and the application, for litigation regarding letters patent derived therefrom and for the purpose of protecting and perfecting title to the invention and the application. | | | |
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| Citizenship: India 04/16/2014 | | | |
| Signature Date | | | |
| Signature Date | | | |

-1 of 2-

Error! No property name supplied.

| Inventor: | Jingxin Feng | |
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| Signature | | Date |
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| Citizenship: | India | 04/15/2019 |
| Signatura | | Date |

RECORDED: 06/04/2014