PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5432117

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
FRED BOWER	08/18/2015
RODNEY H. BROWN	08/18/2015
QIAO NENG QIAN	08/19/2015

RECEIVING PARTY DATA

Name:	LENOVO ENTERPRISE SOLUTIONS (SINGAPORE) PTE. LTD.
Street Address:	151 LORONG CHUAN
Internal Address: #02-07	
City:	NEW TECH PARK
State/Country: SINGAPORE	
Postal Code:	556741

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16359656

CORRESPONDENCE DATA

Fax Number:

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.

Phone: 561-835-8500 **Email:** sscott@shutts.com

Correspondent Name: SHUTTS & BOWEN LLP STEVEN M. GREENBERG,

Address Line 1: 525 OKEECHOBEE BLVD

Address Line 2: # 1100

Address Line 4: WEST PALM BEACH, FLORIDA 33401

NAME OF SUBMITTER: STEVEN GREENBERG /Steven Greenberg/ DATE SIGNED: 03/20/2019 This document serves as an Oath/Declaration (37 CFR 1.63).	ATTORNEY DOCKET NUMBER:	7100-041CON	
DATE SIGNED: 03/20/2019	NAME OF SUBMITTER: STEVEN GREENBERG		
	SIGNATURE:	/Steven Greenberg/	
This document serves as an Oath/Declaration (37 CFR 1.63).	DATE SIGNED:	03/20/2019	
1	This document serves as an Oath/Declaration (37 CFR 1.63).		

Total Attachments: 6

PATENT REEL: 048652 FRAME: 0628

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PATENT REEL: 048652 FRAME: 0629

DECLARATION (37 C.F.R. 1.63) FOR UTILITY PATENT APPLICATION USING AN APPLICATION DATA SHEET (37 C.F.R. 1.76) AND ASSIGNMENT

Title of Invention: SIGNATURE BASED DISTRIBUTED INVENTORY CACHING

As a below named and undersigned inventor, I hereby declare that:

This declaration is directed to the attached application, or (if following box is checked):
[] United States application or PCT international application number
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 have reviewed and understand the contents of the application, including the claims.
I am aware of the duty to disclose to the United States Patent and Trademark Office all information known to me to be material to patentability as defined in 37 CFR Section 1.56.

Whereas, I ("ASSIGNOR") have made certain inventions, improvements, and discoveries (herein referred to as the "Invention") disclosed in the above-identified patent application and further identified by the IBM Docket Number provided above in the header of this document;

Whereas, LENOVO ENTERPRISE SOLUTIONS (SINGAPORE) PTE. LTD. (herein referred to as the "ASSIGNEE"), a corporation of Singapore having a place of business at 151 Lorong Chuan # 02-07 New Tech Park, Singapore 556741, desires to acquire, and I desire to grant to the ASSIGNEE, my entire worldwide right, title, and interest in and to the Invention and in and to any and all patent applications and patents directed thereto;

Now, therefore, for good and valuable consideration, the receipt and sufficiency thereof being hereby acknowledged, I hereby sell or have sold, assign or have assigned, and otherwise transfer or have transferred to the ASSIGNEE, its successors, legal representatives, and assigns, my entire worldwide right, title, and interest in and to the Invention, the above-identified United States patent application, and any and all other patent applications and patents for the Invention which may be applied for or granted therefor in the United States and in all foreign countries and jurisdictions, including all divisions, continuations, reissues, reexaminations, renewals, extensions, counterparts, substitutes, and extensions thereof, and all rights of priority resulting from the filing of such applications and granting of such patents. In addition, I hereby authorize and request the Director of the United States Patent and Trademark Office to issue any United States Patent, and foreign patent authorities to issue any foreign patent, granted for the Invention, to the ASSIGNEE, its successors, legal representatives, and assigns, my entire worldwide right, title, and interest in and to the same to be held and enjoyed by the ASSIGNEE, its successors, legal representatives, and assigns to the full end of the terms for which any and all such patents may be granted, as fully and entirely as would have been held and enjoyed by me had this Assignment not been made; and I agree to execute any and all documents and instruments and perform all lawful acts reasonably related to recording this Assignment or perfecting title to the Invention and all related patents and applications, in the ASSIGNEE, its successors, legal representatives, and assigns, whenever requested by the ASSIGNEE, its successors, legal representatives, or assigns.

Page 1 of 2

I acknowledge my prior and ongoing obligations to sell, assign, and transfer my rights under this Assignment to the ASSIGNEE and am unaware of any reason why I may not have the full and unencumbered right to sell, assign, and transfer my rights hereby sold, assigned, and transferred, and have not executed, and will not execute, any document or instrument in conflict herewith. I also hereby grant the ASSIGNEE, its successors, legal representatives, and assigns, the right to insert in this Assignment any further identification (including, but not limited to, patent Application Number) which may be necessary or desirable for recordation of this Assignment.

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.

(1) Legal Name of Inventor: FRED BOWER	
Signature:	Date: 8/18/2009
(2) Legal Name of Inventor: RODNEY H. BROWN	
Signature:	Date:
(3) Legal Name of Inventor: QIAO NENG QIAN	
Signature:	Date:

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

(l)	Legal Name of Inventor: FRED B	OWER			
	Signature:	······································	····	_ Date;	
(2)	Legal Name of Inventor: RODNE	Y H. BROW	M .		
	Signature: Junty			_Date:	£/8/205_
(3)	Legal Name of Inventor: QIAO N	ENG QIAN			
	Signature:	******		Date	

Page 2 of 2

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Page 1 of 2

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(1) Legal Name of Inventor, PRED BOWER	
Signature	Date
(2) Legal Name of Inventor RODNEY H. BROWN	
Signature	Date
(1) Legal Name of Investor QIAO NENG QIAN	
Signature <u>Nicon (Vika) None</u>	Date 8/19/2015

Page 2 of 1

PATENT REEL: 048652 FRAME: 0635