PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
JIN WANG	09/23/2014
SIAMAK NAZARI	09/23/2014
ROOPESH KUMAR TAMMA	09/24/2014
SRINIVASA D MURTHY	09/23/2014

RECEIVING PARTY DATA

Name:	Hewlett-Packard Development Company, L.P.	
Street Address:	11445 Compaq Center Drive West	
City:	Houston	
State/Country:	TEXAS	
Postal Code:	77070	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15514075

CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER:	90353798
NAME OF SUBMITTER:	TRACI THOMAS
SIGNATURE:	/Traci Thomas/
DATE SIGNED:	05/23/2017

Total Attachments: 4

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PATENT REEL: 042475 FRAME: 0099 HEWLETT-PACKARD COMPANY Intellectual Property Administrator 3404 E. Harmony Road Mail Stop 35 Fort Collins, Colorado 80528

Rev 8/2014 (Assignment)

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RECORD ID:	84031476	
1112 A. S.		

ASSIGNMENT OF PATENT APPLICATION

t/We, the undersigned (each), for good and valuable consideration, the receipt of which is hereby acknowledged,

Limited Partnersh subsidiaries and a	nip having its principal place of the strain	of business in Houston, Texa insfer and hereby assign and tra	MENT COMPANY, L.P., a Texas s, (hereinafter HPDC), and to its ansfer to HPDC, its successors and nd under an application for Patent
STORAGE OF A	DATA CHUNK WITH A COLLIE	DING FINGERPRINT	19
Filing Date:	March 24, 2017	Application No.:	15/514,075
divisionals, and re	enewals of and substitutes for sa	aid application for said Patent, a	ations, continuations-in-part (C-I-P's), and any and all either Patent of any eexaminations, or extensions of said
by HPDC, its succe Patent respectively	cessors, assigns, nominees or leg	al representatives, to the full end tended, as fully and entirely as i	i any country, to be held and enjoyed I of the term or terms for which said he same would have been held and
executed and will time a request is n perfect the title to nominees or legal said invention(s) o papers, to execut rightful oaths and and legal represer improvement(s) in	not execute any agreement in cor nade, and without undue delay, ex said invention(s) or improvement(representatives, and l/we agree to improvement(s), said application e all disclaimers and divisionals, declarations, and generally to do statives to obtain and enforce, for	ifflict herewith, and I/we further co tecute and deliver all such papers s), said application and said Pate o communicate to HPDC, or to its n and said Patent, to testify in an continuations, C-I-P's, reissue a everything possible to aid HPDI its or their own benefit, proper pa	erein assigned, and that I/we have not venant and agree that I/we will, each as may be necessary or desirable to nt, to HPDC, its successors, assigns, a nominee, all known facts respecting y legal proceedings, to sign all lawful and foreign applications, to make all C, its successors, assigns, nominees tent protection for said invention(s) or incurred by me/us in lending such
applications as afoinvention(s) or im	presaid, to issue to HPDC, as ass	signee of the entire right, title and	whose duty it is to issue patents on I interest, any and all Patent for said sult of the application aforesaid, in
			late and application number of said in as the same shall have been made
IN WITNESS	WHEREOF, I/we hereunto set n	ny/our hand(s) and seal(s):	
Wer		9	123/2014
Inventor's Signature		Date	
Jin	Wang		
First/Middle Name	Last Name	,	
20	A Leave	q:	123/2014
Inventor's Signature		Date	
Siamak	Nazari		
First/Middle Name	Last Name		

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HEWLETT-PACKARD COMPANY Intellectual Property Administrator 3404 E. Harmony Road Mail Stop 35 Fort Cellins. Colorado 80528

PATENT APPLICATION

Mail Stop 35 Fort Collins, Colorado 8052	8	RECORD ID:	84031476
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Inventor's Signature		Date	
Roopesh Kumar	Tamma		
First/Middle Name	Last Name		
ESSA			<u> </u>
Inventor's Signature	70	Date	*
Srinivasa D	Murthy		
First/Middle Name	Last Name		
Inventor's Signature		Date	
First/Middle Name	Łast Name		
Inventor's Signature		Date	
First/Middle Name	Last Name		
Inventor's Signature	· · · · · · · · · · · · · · · · · · ·	Date	
First/Middle Name	Last Name	······································	
Inventor's Signature		Date	
First/Middle Name	Last Name		

Page 2 of 2

HEWLETT-PACKARD COMPANY PATENT APPLICATION Intellectual Property Administrator 3404 E. Harmony Road RECORD ID: 84031476 Mail Stop 35 Fort Collins, Colorado 80528. ASSIGNMENT OF PATENT APPLICATION I/We, the undersigned (each), for good and valuable consideration, the receipt of which is hereby acknowledged. and in furtherance of mylour obligations to HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P., a Texas Limited Partnership having its principal place of business in Houston, Texas, (hereinafter HPDC), and to its subsidiaries and affiliates, agree to assign and transfer and hereby assign and transfer to HPDC, its successors and assigns, the entire right, title and interest, including the right of priority, in, to and under an application for Patent entitled: STORAGE OF A DATA CHUNK WITH A COLLIDING FINGERPRINT Filing Date: March 24, 2017 Application No.: ____15/514,075 and the invention(s) and improvement(s) set forth therein, and any and all continuations, continuations-in-part (C-I-P's), divisionals, and renewals of and substitutes for said application for said Patent, and any and all other Patent of any countries thereto which may be granted thereon or therefore; and any reissues, or reexaminations, or extensions of said Patent. t/we additionally authorize HPDC to file applications in my/our name for Patent in any country, to be held and enjoyed by HPDC, its successors, assigns, nominees or legal representatives, to the full end of the term or terms for which said Patent respectively may be granted, reissued or extended, as fully and entirely as the same would have been held and enjoyed by me/us had this assignment, and transfer not been made; AND I/we hereby covenant that I/we have full right to convey the entire interest herein assigned, and that I/we have not executed and will not execute any agreement in conflict herewith, and I/we further covenant and agree that I/we will, each time a request is made, and without undue delay, execute and deliver all such papers as may be necessary or desirable to perfect the title to said invention(s) or improvement(s), said application and said Patent, to HPDC, its successors, assigns, nominees or legal representatives, and I/we agree to communicate to HPDC, or to its nominee, all known facts respecting said invention(s) or improvement(s), said application and said Patent, to testify in any legal proceedings, to sign all lawful papers, to execute all disclaimers and divisionals, continuations, C-I-P's, reissue and foreign applications, to make all rightful paths and declarations, and generally to do everything possible to aid HPDC, its successors, assigns, nominees and legal representatives to obtain and enforce, for its or their own benefit, proper patent protection for said invention(s) or improvement(s) in any and all countries provided the expenses which may be incurred by me/us in tending such cooperation and assistance are paid by HPDC; AND I/we hereby authorize and request the official of any country or countries whose duty it is to issue patents on accordance with the terms of this assignment.

applications as aforesaid, to issue to HPDC, as assignee of the entire right, title and interest, any and all Patent for said invention(s) or improvement(s) which may be issued and granted on or as a result of the application aforesaid, in

I/we further authorize and direct the attorneys of record to insert the filing date and application number of said application for Patent, now identified by the Record ID and title set forth above, as soon as the same shall have been made known to them.

IN WITNESS WHEREOF, I/we hereunto set my/our hand(s) and seal(s):

Inventor's Signature			Date	
Jin	Wang			
First/Middle Name	Last Name		•••	
Inventor's Signature			Date	*****
Siamak	Nazari			
First/Middle Name	Last Name			
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HEWLETT PACKARD COMPANY Intellectual Property Administrator 3404 E. Harmony Road Mail Stop 35

PATENT APPLICATION

3404 E. Harmony Road Mail Stop 35 Fort Collins, Colorado 80528		RECORD ID: 84031476
Ä	SSIGNMENT OF PATENT A	
T. Roger	4 brus	09/24/20/4 Date
nventor's Signature		Date
Roopesh Kumar	Tamma	
irst/Middle Name	Last Name	
Inventor's Signature		Date
Srinivasa D	Murthy	
First/Middle Name	Läst Name	*
Inventor's Signature		Date
First/Middle Name	Láss Name	······································
Inventor's Signature		Date
First/Middle Name	Last Name	
Inventor's Signature		Date
First/Middle Name	Last Name	
Inventor's Signature		Date
First/Middle Name	Läst Näme	

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PATENT REEL: 042475 FRAME: 0103

Rev 8/2014 (Assignment)