504892100 04/30/2018

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4938843

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
JOHN PAUL STRACHAN	04/30/2018
CATHERINE GRAVES	04/25/2018
SUHAS KUMAR	04/26/2018

RECEIVING PARTY DATA

Name:	HEWLETT PACKARD ENTERPRISE DEVELOPMENT 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:	15966719

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: 970-898-7472

Email: hpe.ip.mail@hpe.com

HEWLETT PACKARD ENTERPRISE **Correspondent Name:**

Address Line 1: 3404 E. HARMONY ROAD

Address Line 2: MAIL STOP 79

Address Line 4: FORT COLLINS, COLORADO 80528

ATTORNEY DOCKET NUMBER:	90545614
NAME OF SUBMITTER:	BRENDA L. THOM
SIGNATURE:	/Brenda L. Thom/
DATE SIGNED:	04/30/2018

Total Attachments: 3

source=124_SignedAssignment#page1.tif source=124_SignedAssignment#page2.tif source=124 SignedAssignment#page3.tif

> **PATENT REEL: 045671 FRAME: 0196**

504892100

Hewlett Packard Enterprise 3404 E. Harmony Road Mail Stop 79 Fort Collins, Colorado 80528

Rev 06/15

PATENT APPLICATION

RECORD ID:	90545614
------------	----------

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 my/our obligations to Hewlett Packard Enterprise Development LP, a Texas Limited Partnership having its

principal place of business in Houston, Texas, (hereinafter HPED), transfer and hereby assign and transfer to HPED, its successors the right of priority, in, to and under an application for Patent entitle	and assigns, the	
HASH COMPUTATION USING MEMRISTOR-IMPLEMENTED	DOT PRODUCT	ENGINE
Filing Date: April 30, 2018 April 30, 2018	pplication No.:	15/966719
and the invention(s) and improvement(s) set forth therein, and a divisionals, and renewals of and substitutes for said application countries thereto which may be granted thereon or therefore; and Patent.	for said Patent,	and any and all other Patent of any
I/we additionally authorize HPED to file applications in my/our by HPED, its successors, assigns, nominees or legal representation Patent respectively may be granted, reissued or extended, as full enjoyed by me/us had this assignment, and transfer not been made	tives, to the full er lly and entirely as	nd of the term or terms for which said
AND I/we hereby covenant that I/we have full right to convey to executed and will not execute any agreement in conflict herewith, time a request is made, and without undue delay, execute and del perfect the title to said invention(s) or improvement(s), said application nominees or legal representatives, and I/we agree to communicate said invention(s) or improvement(s), said application and said Pat papers, to execute all disclaimers and divisionals, continuations rightful oaths and declarations, and generally to do everything parand legal representatives to obtain and enforce, for its or their own improvement(s) in any and all countries provided the expense cooperation and assistance are paid by HPED;	and I/we further of the paper all such paper attent and said Pate to HPED, or to it tent, to testify in a part of the paper and the paper and the paper and the paper paper and the paper paper paper and the paper paper and the paper pa	covenant and agree that I/we will, each is as may be necessary or desirable to tent, to HPED, its successors, assigns to nominee, all known facts respecting ny legal proceedings, to sign all lawfu and foreign applications, to make al ED, its successors, assigns, nominees atent protection for said invention(s) or
AND I/we hereby authorize and request the official of any capplications as aforesaid, to issue to HPED, as assignee of the cinvention(s) or improvement(s) which may be issued and gran accordance with the terms of this assignment.	entire right, title ar	nd interest, any and all Patent for said
I/we further authorize and direct the attorneys of record to application for Patent, now identified by the Record ID and title set known to them.	insert the filing forth above, as so	date and application number of said on as the same shall have been made
IN WITNESS WHEREOF, I/we hereunto set my/our hand(s) and seal		190/18
John Paul Strachan		
First/Middle Name/Last Name		
Inventor's Signature	Date	
Catherine Graves		
First/Middle Name/Last Name		

Page 1 of 2

Hewlett Packard Enterprise		
3404 E. Harmony Road		
Mail Stop 79		
Fort Collins, Colorado 80528		

Rev 06/15

PA	ΓFΝΤ	. Vbbi	ICA	LION

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 my/our obligations to Hewlett Packard Enterprise Development LP, a Texas Limited Partnership having its principal place of business in Houston, Texas, (hereinafter HPED), and to its subsidiaries and affiliates, agree to assign and transfer and hereby assign and transfer to HPED, its successors and assigns, the entire right, title and interest, including

	rity, in, to and under an application		entire right, title and interest, including
HASH COMPL	JTATION USING MEMRISTOR-	IMPLEMENTED DOT PRODUC	T ENGINE
Filing Date: _	April 30, 2018	Application No.:	15/966719
divisionals, and	d renewals of and substitutes for	said application for said Patent	nuations, continuations-in-part (C-I-P's), and any and all other Patent of any r reexaminations, or extensions of said
by HPED, its s Patent respecti	uccessors, assigns, nominees or	legal representatives, to the full extended, as fully and entirely a	in any country, to be held and enjoyed and of the term or terms for which said is the same would have been held and
executed and v time a request perfect the title nominees or les said invention(s papers, to exe rightful oaths a and legal repre improvement(s)	vill not execute any agreement in a is made, and without undue delay, to said invention(s) or improveme gal representatives, and I/we agres) or improvement(s), said applicacute all disclaimers and divisionand declarations, and generally to sentatives to obtain and enforce, f	conflict herewith, and I/we further execute and deliver all such paper nt(s), said application and said Pare to communicate to HPED, or to tion and said Patent, to testify in alls, continuations, C-I-P's, reissued do everything possible to aid HP or its or their own benefit, proper I	herein assigned, and that I/we have not covenant and agree that I/we will, each ers as may be necessary or desirable to stent, to HPED, its successors, assigns, its nominee, all known facts respecting any legal proceedings, to sign all lawful e and foreign applications, to make all ED, its successors, assigns, nominees patent protection for said invention(s) or e incurred by me/us in lending such
applications as invention(s) or	aforesaid, to issue to HPED, as	assignee of the entire right, title a	es whose duty it is to issue patents on ind interest, any and all Patent for said result of the application aforesaid, in
	Patent, now identified by the Reco	,	date and application number of said oon as the same shall have been made
IN WITNES:	S WHEREOF, I/we hereunto set my/or	ur hand(s) and seal(s):	
Inventor's Signat	ure	Date	
John Paul Stra	chan		
First/Middle Name	e/Last Name		
	3		04/25/2018
Inventor's Signat	ure	Date	
Catherine Gra	ves		
First/Middle Name	e/Last Name		

Page 1 of 2

Hewlett Packard Enterprise 3404 E. Harmony Road Mail Stop 79

PATENT APPLICATION

Fort Collins, Colorado 80528	RECORD	ID: 90545614
A	SSIGNMENT OF PATENT APPLICAT	ON (cont.)
K	4	4/26/2018
Inventor's Signature	Dat	е
Suhas Kumar		
First/Middle Name/Last Name		
Inventor's Signature	Dat	е
First/Middle Name/Last Name		
Inventor's Signature	Dat	Э
First/Middle Name/Last Name		
Inventor's Signature	Dat	е
First/Middle Name/Last Name		
Inventor's Signature	Dat	9
First/Middle Name/Last Name		
Inventor's Signature	Date	•
First/Middle Name/Last Name		
Rev 06/15	Page 2 of 2	

PATENT REEL: 045671 FRAME: 0199