504504518 08/15/2017

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4551222

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
MARK DOHERTY	08/27/2015
SIAMAK NAZARI	08/26/2015
JIN WANG	08/26/2015
SRINIVASA D. MURTHY	08/27/2015
PAUL KINNAIRD	08/27/2015
PIERRE LABAT	08/27/2015
JONATHAN STEWART	08/28/2015

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:	15547710	

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) 898-7444

Email: hpe.ip.mail@hpe.com

Correspondent Name: HEWLETT PACKARD ENTERPRISE
Address Line 1: 3404 E. HARMONY ROAD MS 79
Address Line 4: FORT COLLINS, COLORADO 80528

ATTORNEY DOCKET NUMBER:	90469577
NAME OF SUBMITTER:	TRACI THOMAS
SIGNATURE:	/Traci Thomas/
DATE SIGNED:	08/15/2017

PATENT 504504518 REEL: 043298 FRAME: 0914

Total Attachments: 10 source=90469577_AllAssignEXECUTED#page1.tif source=90469577_AllAssignEXECUTED#page2.tif source=90469577_AllAssignEXECUTED#page3.tif source=90469577_AllAssignEXECUTED#page4.tif source=90469577_AllAssignEXECUTED#page5.tif source=90469577_AllAssignEXECUTED#page6.tif source=90469577_AllAssignEXECUTED#page7.tif source=90469577_AllAssignEXECUTED#page8.tif source=90469577_AllAssignEXECUTED#page9.tif source=90469577_AllAssignEXECUTED#page9.tif source=90469577_AllAssignEXECUTED#page10.tif

Rev 8/2014 (Assignment)

Hewlett Packard Enterprise 3404 E. Harmony Road Mail Stop 79			PATENT APPLICATION
Fort Collins, Colorado 80528		RECORD ID:	90034176
Limited Partnership having subsidiaries and affiliates a	each), for good and value our obligations to HEW I its principal place of igree to assign and trans te and interest, including	business in Houston, Texas fer and hereby assign and tra the right of priority, in, to a	N It of which is hereby acknowledged, MENT COMPANY, L.P., a Texas Is, (hereinafter HPDC), and to its Its successors and Indication for Patent Indication for Patent
Filing Date:July 31	, 2017	Application No.:	15/547 710
and the invention(s) and imp	provement(s) set forth the	ein, and any and all continua	tions, continuations-in-part (C-I-P's), and any and all other Patent of any sexaminations, or extensions of said
I/we additionally authoriz by HPDC, its successors, as Patent respectively may be g enjoyed by me/us had this ass	tranted reissued or extend	fod as full unit full end	any country, to be held and enjoyed of the term or terms for which said te same would have been held and
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AND I/we hereby authorize applications as aforesaid, to is invention(s) or improvement(s accordance with the terms of the secondance with the terms of the secondance with the secondance with the terms of the secondance with th	Which may be issued .	of any country or countries we sof the entire right, title and it and granted on or as a resu	those duty it is to issue patents on nterest, any and all Patent for said alt of the application aforesaid, in
I/we further authorize and application for Patent, now ider known to them.	d direct the attorneys of ntified by the Record ID and	record to insert the filing dat fille set forth above, as soon	e and application number of said as the same shall have been made
IN WITNESS WHEREOF,	l/we hereunto set my/ou	r hand(s) and seal(s):	
Madety		ozHy	A = 0
Inventor's Signature		Date	Aug 2015.
Mark	Doherty		
First/Middle Name	Last Name		
nventor's Signature		Date	
Siamak	Nazari		
irst/Middle Name	Last Name		

Page 1 of 2

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

Rev 8/2014 (Assignment)

3404 E. Harmony Road		PATENT APPLICATION
Mail Stop 79 Fort Collins, Colorado 80528		RECORD ID: 90034176
	ASSIGNMEN'	T OF PATENT APPLICATION
and in furtherance of m Limited Partnership havi subsidiaries and affiliates	d (each), for good and v y/our obligations to Hi ing its principal place , agree to assign and tr	aluable consideration, the receipt of which is hereby acknowledged EWLETT-PACKARD DEVELOPMENT COMPANY, L.P., a Texast of business in Houston, Texas, (hereinafter HPDC), and to it ansfer and hereby assign and transfer to HPDC, its successors and ting the right of priority, in, to and under an application for Pater
COLLISION HANDLING	DURING AN ASYNCH	RONOUS REPLICATION
Filing Date:July	31, 2017	Application No.:15/547,710
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applications as aforesaid,	to issue to HPDC, as as ent(s) which may be iss	fficial of any country or countries whose duty it is to issue patents o signee of the entire right, title and interest, any and all Patent for sai sued and granted on or as a result of the application aforesaid, i
		s of record to insert the filing date and application number of sai ID and title set forth above, as soon as the same shall have been made
IN WITNESS WHERE	OF, I/we hereunto set i	my/our hand(s) and seal(s):
Inventor's Signature		Date
Mark	Doherty	
First/Middle Name	Last Name	
- Sul Nu	v.	Ang 26 2015
Inventor's Signature		Date ()
Siamak	Nazari	
First/Middle Name	Last Name	· · · · · · · · · · · · · · · · · · ·

Page 1 of 2

PATENT APPLICATION

8	RECORD ID:	90034176	

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 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:

assigns, the en entitled:	tire right, title and interest, includ	ing the right of priority, in,	to and under an application for Pateni
COLLISION HA	ANDLING DURING AN ASYNCHR	ONOUS REPLICATION	
Filing Date:	July 31, 2017	Application No.:	:15/547,710
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executed and witime a request is perfect the title t nominees or leg said invention(s) papers, to exect rightful oaths an and legal repres improvement(s)	ill not execute any agreement in cor s made, and without undue delay, ex o said invention(s) or improvement(s al representatives, and I/we agree to or improvement(s), said application ute all disclaimers and divisionals, and declarations, and generally to do entatives to obtain and enforce, for	ifflict herewith, and I/we further ecute and deliver all such paids), said application and said for communicate to HPDC, or and said Patent, to testify in continuations, C-I-P's, reiss everything possible to aid Fits or their own benefit, prope	st herein assigned, and that I/we have no er covenant and agree that I/we will, each pers as may be necessary or desirable to Patent, to HPDC, its successors, assigns to its nominee, all known facts respecting an any legal proceedings, to sign all lawfu ue and foreign applications, to make all HPDC, its successors, assigns, nominees ar patent protection for said invention(s) o be incurred by me/us in lending such
applications as a invention(s) or	aforesaid, to issue to HPDC, as ass	signee of the entire right, title	tries whose duty it is to issue patents or and interest, any and all Patent for said a result of the application aforesaid, in
			ng date and application number of said s soon as the same shall have been made
IN WITNES	SS WHEREOF, I/we hereunto set n	ny/our hand(s) and seal(s):	
Inventor's Signatu	re	Date	
Mark	Doherty		
First/Middle Name	Last Name		
Inventor's Signatu	re	Date	
Siamak	Nazari		
First/Middle Name	Last Name		
Rev 8/2014 (Assignmer	nt)	Page 1 of 2	

PATENT APPLICATION

Fort Collins, Colorado 80528		RECORD ID:	90034176
	ASSIGNMENT OF PA	ATENT APPLICATION (con	٤.)
illa		8/2	6/2015
Inventor's Signature	<u></u>	Date	
Jin	Wang		
First/Middle Name	Last Name		
Inventor's Signature		Date	
Srinivasa D.	Murthy		
First/Middle Name	Last Name		
Invertor's Signature		Date	
Paul	Kinnaird		
First/Middle Name	Last Name		
Inventor's Signature		Date	
Pierre	Labat		
First/Middle Name	Last Name		
Inventor's Signature		Date	
Jonathan	Stewart		
First/Middle Name	Last Name		
Inventor's Signature		Date	
First/Middle Name	Last Name	······································	

Page 2 of 2

Rev 8/2014 (Assignment)

Hewlett Packard Enterprise

First/Middle Name

Rev 8/2014 (Assignment)

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3404 E. Harmony Road			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Mail Stop 79 Fort Collins, Colorado 80528		RECORD ID:	90034176
	ASSIGNMENT	OF DATENT ADDITION	
and in furtherance of my Limited Partnership havir subsidiaries and affiliates, assigns, the entire right, t entitled:	(each), for good and va //our obligations to HE ng its principal place of agree to assign and tra itle and interest, includi	OF PATENT APPLICATION luable consideration, the receipt of WLETT-PACKARD DEVELOPMING business in Houston, Texas, inster and hereby assign and transing the right of priority, in, to and	ENT COMPANY, L.P., a Texas (hereinafter HPDC), and to its sfer to HPDC, its successors and
COLLISION HANDLING I	DURING AN ASYNCHR	ONOUS REPLICATION	
Filing Date: July 3	1, 2017	Application No.:	15/547,710
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by HPDC, its successors,	assigns, nominees or leg e granted, reissued or ex	ions in my/our name for Patent in a al representatives, to the full end o tended, as fully and entirely as the not been made;	of the term or terms for which said
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IN WITNESS WHERE	OF, I/we hereunto set m	ny/our hand(s) and seal(s):	
Inventor's Signature		 Date	
Ü	D. I		
Mark 	Doherty Last Name		
Inventor's Signature		Date	
Siamak	Nazari		

PATENT REEL: 043298 FRAME: 0920

Page 1 of 2

Last Name

PATENT APPLICATION

Fort Collins, Colorado 80528		RECORD ID:	90034176
	ASSIGNMENT OF PA	TENT APPLICATION (conf	t.)
Inventor's Signature		Date	
Jin	Wang		
First/Middle Name	Last Name		
inventor's Signature	1mg		7/15
		Date	
Srinivasa D. First/Middle Name	Murthy Last Name		
	A. A. C.		
Inventor's Signature	***************************************	Daie	
Paul	Kinnaird		
First/Middle Name	Last Name		
Inventor's Signature		Date	
Pierre	Labat		
First/Middle Name	Last Name		
Inventor's Signature		Date	
		Date	
Jonathan	Stewart	***************************************	
First/Middle Name	Last Name		
Irumhodo Cigantura			
Inventor's Signature		Date	
First/Middle Name	Last Name		

Page 2 of 2

Hewlett Packard Enterprise

PATENT APPLICATION

3404 E. Harmony Road		
Mail Stop 79		2.2.2.1.1m.2
Fort Collins, Colorado 80528	RECORD ID:	90034176
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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 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

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COLLISION HAN	DLING DURING AN ASYNCHE	RONOUS REPLICATION			
Filing Date:	July 31, 2017	Application N	o.:	15/547,710	
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IN WITNESS	WHEREOF, I/we hereunto set r	my/our hand(s) and seal(s	i):		
Inventor's Signature)		
Mark	Doherty				
First/Middle Name	Last Name				
Inventor's Signature		Date			
Siamak	Nazari				
First/Middle Name	Last Name				
Rev 8/2014 (Assignment)		Page 1 of 2			

PATENT APPLICATION

For Collins, Colorado 805	28	RECORD ID:	90034176
	ASSIGNMENT OF PA	ATENT APPLICATION (con	t.)
Inventor's Signature		Date	
Jin.	Wang		
First/Middle Name	Last Name		
Inventor's Signature		Date	
Srinivasa D.	Murthy		
First/Middle Name	Last Name		
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Inventor's Signature		Date	
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Jonathan	Stewart		
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First/Middle Name	Last Name		

Rev 8/2014 (Assignment)

Page 2 of 2

Hewlett Packard Enterprise

PATENT APPLICATION

3404 E. Harmony Road		
Mail Stop 79		000011770
Fort Collins, Colorado 80528	RECORD ID:	90034176

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 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

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COLLISION HA	NDLING DURING AN ASYNCI	HRONOUS REPLICATION	
Filing Date:	July 31, 2017	Application No.	:15/547,710
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Mark	Doherty		
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Siamak	Nazari		
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Rev 8/2014 (Assignment)	Page 1 of 2	

PATENT APPLICATION

Mail Stop 79 Fort Collins, Colorado 80528		RECORD ID: 90034176		
	ASSIGNMENT OF PATENT APPLICATION (cont.)			
nventor's Signature		Date		
lin:	Wang			
First/Middle Name	Last Name			
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Srinivasa D.	Murthy			
First/Middle Name	Last Name			
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Paul	Kinnaird			
First/Middle Name	Last Name			
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Jonathan	Stewart			
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Inventor's Signature		Date		
First/Middle Name	Last Name			

Page 2 of 2

Rev 8/2014 (Assignment)