504009318 09/16/2016

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT4055975

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
SHIRO SUZUKI	09/09/2016
JONATHAN GREENLAW	09/15/2016
MARK SHILLINGBURG	09/09/2016

RECEIVING PARTY DATA

Name:	Hewlett Packard Enterprise Development LP
Street Address:	11445 Compaq Center Drive West
City:	Houston
State/Country:	TEXAS
Postal Code:	77070

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15267786

CORRESPONDENCE DATA

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

ATTORNEY DOCKET NUMBER:	90235672
NAME OF SUBMITTER:	BE HENRY
SIGNATURE:	/Be Henry/
DATE SIGNED:	09/16/2016

Total Attachments: 6

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> PATENT REEL: 039767 FRAME: 0172

Rev 05/15

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RECORD ID:	90235672
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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 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 heret the right of priority	by assign and transfer to HPED, its suc , in, to and under an application for Pate	cessors and assigns, the entir	e right, title and interest, including
Crossbar Switch	'n		
Filing Date:	September 16, 2016	Application No.:	15/267786
divisionals, and r	(s) and improvement(s) set forth there enewals of and substitutes for said a which may be granted thereon or there	pplication for said Patent, and	any and all other Patent of an
by HPED, its suc- Patent respectively	ally authorize HPED to file applications cessors, assigns, nominees or legal rejly may be granted, reissued or extende had this assignment, and transfer not be	presentatives, to the full end o ed, as fully and entirely as the	f the term or terms for which said
executed and will time a request is r perfect the tille to nominees or legal said invention(s) of papers, to execut rightful oaths and and legal represer improvement(s) in	reby covenant that I/we have full right to not execute any agreement in conflict the made, and without undue delay, execute said invention(s) or improvement(s), said representatives, and I/we agree to contribute and divisionals, contribute all disclaimers and divisionals, contributes to obtain and generally to do ever intatives to obtain and enforce, for its or any and all countries provided the ssistance are paid by HPED;	nerewith, and I/we further cover a and deliver all such papers as aid application and said Patent, nmunicate to HPED, or to its no said Patent, to testify in any le inuations, C-I-P's, reissue and ything possible to aid HPED, it their own benefit, proper paten	nant and agree that I/we will, each may be necessary or desirable to to HPED, its successors, assigns ominee, all known facts respecting all proceedings, to sign all lawfur foreign applications, to make all ts successors, assigns, nomineed to protection for said invention(s) or
applications as af- invention(s) or im-	reby authorize and request the official oresaid, to issue to HPED, as assigned approvement(s) which may be issued a ne terms of this assignment.	of the entire right, title and in	terest, any and all Patent for said
I/we further a application for Pat known to them.	authorize and direct the attorneys of each, now identified by the Record ID and	record to insert the filing date d title set forth above, as soon a	s and application number of sale as the same shall have been made
IN WITNESS W	/HEREOF, I/we hereunto set my/our hand(s) and seal(s):	•
Ship Inventor's Signature	o Suzuki	9 / C	1/2016
Shiro	Suzuki		
First/Middle Name	Last Name	······	•
Inventor's Signature			
Jonathan	Greenlaw		
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Page 1 of 2

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PATENT APPLICATION

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	ASSIGNMENT OF PAT	ENT APPLICATION (cont.)	
Inventor's Signature		Date	
Mark	Shillingburg		
First/Middle Name	Last Name		
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First/Middle Name	Last Name	······································	

Page 2 of 2

Hewlett Packard Enterprise 3404 E. Harmony Road			PATENT APPLICATION
Mail Stop 79 Fort Collins, Colorado 80528		RECORD ID:	90235672
A	SSIGNMENT OF F	PATENT APPLICATIO	N
furtherance of my/our obligations to principal place of business in Housto	Hewlett Packard Ente n, Texas, (hereinafter I sfer to HPED, its succ	rprise Development LP, a HPED), and to its subsidiar essors and assigns, the e	which is hereby acknowledged, and in Texas Limited Partnership having its ries and affiliates, agree to assign and ntire right, title and interest, including
Crosebar Switch			
Filing Date: September	16, 2016	Application No.:	15/267786
divisionals, and renewals of and si	ubstitutes for said app	olication for said Patent, a	ations, continuations-in-part (C-I-P's), and any and all other Patent of any reexaminations, or extensions of said
by HPED, its successors, assigns, it	nominees or legal repr , reissued or extended	esentatives, to the full end I, as fully and entirely as t	n any country, to be held and enjoyed d of the term or terms for which said the same would have been held and
executed and will not execute any a time a request is made, and without perfect the title to said invention(s) of nominees or legal representatives, a said invention(s) or improvement(s), papers, to execute all disclaimers in rightful paths and declarations, and and legal representatives to obtain a	greement in conflict he undue delay, execute a ir improvement(s), said and I/we agree to common said application and said application and said and divisionals, continuated generally to do everyt and enforce, for its or the unities provided the said and and and and and and and and and an	arewith, and I/we further co and deliver all such papers I application and said Pate nunicate to HPED, or to its aid Patent, to testify in an uations, C-I-P's, reissue a thing possible to aid HPEI teir own benefit, proper pa	prein assigned, and that I/we have not overant and agree that I/we will, each as may be necessary or desirable to ent, to HPED, its successors, assigns, a nominee, all known facts respecting y legal proceedings, to sign all lawful and foreign applications, to make all D, its successors, assigns, nominees tent protection for said invention(s) or incurred by me/us in tending such
applications as aforesaid, to issue to	o HPED, as assignee of the may be issued an	of the entire right, title and	whose duty it is to issue patents on f interest, any and all Patent for said sult of the application aforesaid, in
			late and application number of said on as the same shall have been made
IN WITNESS WHEREOF, I/we hereu	into set my/our hand(s) a	and seal(s):	

Inventor's Signature

Shiro
Suzuki
First/Middle Name
Last Name

Jonathan
Greenlaw
Frst/Middle Name

Last Name

Page 1 of 2

PATENT APPLICATION

Fort Collins, Colorado 80528		RECORD ID:	90235672
	ASSIGNMENT OF PAT	ENT APPLICATION (cont	.)
Inventor's Signature		Date	
Mark	Shillingburg		
First/Middle Name	Last Name		
Inventor's Signature		Date	
First/Middle Name	Last Name	······	
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Inventor's Signature		Date	
First/Middle Name	Last Name	••••••	
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First/Middle Name	Last Name		

Page 2 of 2

Rev 06/15

PATENT APPLICATION

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RECORD ID:	90235672

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 the right of priority, in, to and under an application for Patent entitled:

the right of priority	/, in, to and under an application for Pate	ent entitled:	
Crossbar Switc	h		
Filing Date:	September 16, 2016	Application No.:	15/267786
divisionals, and r	n(s) and improvement(s) set forth there renewals of and substitutes for said a which may be granted thereon or then	pplication for said Patent, an	d any and all other Patent of any
by HPED, its suc Patent respective	ally authorize HPED to file applications cessors, assigns, nominees or legal re ly may be granted, reissued or extend thad this assignment, and transfer not b	presentatives, to the full end ed, as fully and entirely as the	of the term or terms for which said
executed and will time a request is perfect the title to nominees or lega said invention(s) papers, to execu- rightful oaths and and legal represe improvement(s) i	reby covenant that I/we have full right to not execute any agreement in conflict made, and without undue delay, execut said invention(s) or improvement(s), so if representatives, and I/we agree to corror improvement(s), said application and the all disclaimers and divisionals, contite all disclaimers and divisionals, contit declarations, and generally to do eventatives to obtain and enforce, for its or n any and all countries provided the assistance are paid by HPED;	herewith, and I/we further cover e and deliver all such papers a aid application and said Patent nmunicate to HPED, or to its r I said Patent, to lestify in any imuations, C-I-P's, reissue an rything possible to aid HPED, their own benefit, proper pate	enant and agree that I/we will, each is may be necessary or desirable to to HPED, its successors, assigns nominee, all known facts respecting legal proceedings, to sign all lawfu d foreign applications, to make at its successors, assigns, nomineet nt protection for said invention(s) or
applications as a invention(s) or in	ereby authorize and request the official foresaid, to issue to HPED, as assigne inprovement(s) which may be issued the terms of this assignment.	e of the entire right, title and i	nterest, any and all Patent for said
	authorize and direct the attorneys of tent, now identified by the Record ID an		
IN WITNESS V	WHEREOF, I/we hereunto set my/our hand(s) and seal(s):	
Inventor's Signature	8	Date	
Shiro	Suzuki		
First/Middle Name	Läst Name		
Inventor's Signature	8	Date	
Jonathan	Greenlaw		
First/Middle Name	Last Name		

Page 1 of 2

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PATENT APPLICATION

Fort Collins, Colorado 80528		RECORD ID:	90235672
Mad July	ASSIGNMENT OF PAT	TENT APPLICATION (cont.)	
Inventor's Signature	7	Date	
Mark	shillingburg		
First/Middle Name	Last Name		
Inventor's Signature		Date	
First/Middle Name	Last Name		
Inventor's Signature		Date	
First/Middle Name	Last Name		
Inventor's Signature		Dale	
First/Middle Name	Last Name		
Inventor's Signature		Date	
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Inventor's Signature		Date	
First/Middle Name	Last Name		

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RECORDED: 09/16/2016