### 504357938 05/09/2017

# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4404629

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
JEFFERSON P. WARD	08/30/2013
STEPHEN D. PANSHIN	08/30/2013

### **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:	15590321

### **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

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

ATTORNEY DOCKET NUMBER:	84628512
NAME OF SUBMITTER:	STEVEN L. NICHOLS
SIGNATURE:	/Steven L. Nichols/
DATE SIGNED:	05/09/2017

**Total Attachments: 2** 

source=84628512-A#page1.tif source=84628512-A#page2.tif

PATENT 504357938 REEL: 042297 FRAME: 0987

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

					13					

ŝ	ŝ			8		8				ŝ	ì	3	Š	i	Š						3	ì		Š	Š				3	ŝ	ì									Š	Š	Š							Ċ	٠	ċ		×		ż	i	ŝ	۱	ò	ì	ė	3	à		è	é	Ġ	ċ	Š	ě				3	ì	Ì			i				ì			8		
Š	١	í	ĺ	ì	١	١	ś	١	ì	Ė	١	ì	Ì	į	Ì	١	í	1	į	Ì	١	ì			Š			1	ì				ì								Š	Ì	ì	ì		Š	Š	Š	ì	Ì	Š	١	1	١	Š	Š		Ì	۱	Ĭ	ì	ı	١	ì	١	١	Š	ì			ì		1							ì		ì			3			
Š	ì	٠	٥	8	8	8	8	0		١	١	ľ	Š	ì	ì	٦		í		3	9	Š	ì	ì	Š	٠	٤	۹	÷	÷	١	٠	١	١	١	٠	١	١	٠	Ó	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	Ť	٠	۰	٠	٠	٠	۰	٠	٠	Ċ	٠	÷	٠	Š	٠	ż	ŕ	٠	٠	÷	٥	Š	Ì	Ť	٠	١	۲	'n	Š	Š	Ċ	Š	۲	٠		٠	٥	٠

### ASSIGNMENT OF PATENT APPLICATION

I/We, the undersigned (each) have agreed and hereby agree, that 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 Part Texas, (hereinafter HPDC), and to its subsidiaries and aft assigns, the entire right, title and interest, including the rentified:	lilates, to assign and transfer to HPDC, its successors and
SUPPLY AUTHENTICATION VIA TIMING CHALLENGE	RESPONSE
Filing Date: February 8, 2016	Application No.: 14/910,816
and the invention(s) and improvement(s) set forth therein, a divisionals, and renewals of and substitutes for said applic countries thereto which may be granted thereon or therefore Patent.	cation for said Patent, and any and all other Patent of an
I/we additionally authorize HPDC to file applications in m by HPDC, its successors, assigns, nomineer or legal repre- Patent respectively may be granted, reissued or extended enjoyed by me/us had this assignment, and transfer not been	as fully and entirely as the same would have been held and
AND I/we hereby covenant that I/we have full right to con- executed and will not execute any agreement in conflict here time a request is made, and without undue delay, execute an perfect the title to said invention(s) or improvement(s), said a nominees or legal representatives, and I/we agree to commit said invention(s) or improvement(s), said application and said papers, to execute all disclaimers and divisionals, continue rightful oaths and declarations, and generally to do everythi and legal representatives to obtain and enforce, for its or the improvement(s) in any and all countries provided the ex- cooperation and assistance are paid by HPDC;	d deliver all such papers as may be necessary or desirable to application and said Patent, to HPDC, its successors, assigns inicate to HPDC, or to its nominee, all known facts respection of Patent, to testify in any legal proceedings, to sign all fawful itions, C-I-P's, reissue and foreign applications, to make a ing possible to aid HPDC, its successors, assigns, nominee in own benefit, proper patent protection for said invention(s) of
AND I/we hereby authorize and request the official of a applications as aforesaid, to issue to HPDC, as assignee of invention(s) or improvement(s) which may be issued and accordance with the terms of this assignment.	
I/we further authorize and direct the attorneys of rect application for Patent, now identified by the Record ID and till known to them.	ord to insert the filing date and application number of said le set forth above, as soon as the same shall have been made
IN WITNESS WHEREOF, I/we hereunto set my/our h	and(s) and seal(s):
Inventor's Typed Name	3 \\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
Inventor's Signature	Dafe
Stephen D Panshin Inventor's Typed Name	

Page 1 of 1 Rev. 1/ 2015 (Assignment)

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

PATENT		

RECORD ID:	83270952	
		,.,

### ASSIGNMENT OF PATENT APPLICATION

I/We, the undersigned (each) have agreed and hereby agree, that 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, to 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:

SUPPLY AUTI	HENTICATION VIA TIMING CHA	LENGE RESPONSE
Filing Date:	February 8, 2016	Application No.: 14/910,816
divisionals, and	I renewals of and substitutes for	therein, and any and all continuations, continuations-in-part (C-I-P's) aid application for said Patent, and any and all other Patent of any therefore; and any reissues, or reexaminations, or extensions of said
by HPDC, its s Patent respecti	uccessors, assigns, nominees or le	ations in my/our name for Patent in any country, to be held and enjoyed gal representatives, to the full end of the term or terms for which said xtended, as fully and entirely as the same would have been held and not been made;
executed and vime a request in perfect the title nominees or lessaid invention(spapers, to exerightful oaths a and legal represented)	will not execute any agreement in common and in the said invention(s) or improvement gal representatives, and I/we agree or improvement(s), said application and declarations, and generally to contain the said application and declarations, and generally to contain and enforce, for	ight to convey the entire interest herein assigned, and that I/we have no inflict herewith, and I/we further covenant and agree that I/we will, each execute and deliver all such papers as may be necessary or desirable to (s), said application and said Patent, to HPDC, its successors, assigns to communicate to HPDC, or to its nominee, all known facts respecting to acid said Patent, to testify in any legal proceedings, to sign all lawful, continuations, C-I-P's, reissue and foreign applications, to make a polyecting possible to aid HPDC, its successors, assigns, nominee its or their own benefit, proper patent protection for said invention(s) od the expenses which may be incurred by me/us in lending suc
applications as invention(s) or	aforesaid, to issue to HPDC, as a	official of any country or countries whose duty it is to issue patents of issignee of the entire right, title and interest, any and all Patent for sail sued and granted on or as a result of the application aforesaid, it
	Patent, now identified by the Record	ys 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 mad
in Witne	SS WHEREOF, I/we hereunto set	my/our hand(s) and seal(s):
· Inventor's Signa	ture	Date
Jefferson P War Inventor's Typed	************	<del></del>
Sup-O	Pant*	30 Aug 2013
Stephen D Pans Inventor's Typed		
Rev 1/ 2013 (Assigni	nent)	Page 1 of 1

**PATENT** REEL: 042297 FRAME: 0989

RECORDED: 05/09/2017