504925300 05/22/2018

### PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4972046

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.	10/27/2015

#### **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:	15469285

#### **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.

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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:	90377605
NAME OF SUBMITTER:	LAURA M. ZAVALA
SIGNATURE:	/Laura M. Zavala/
DATE SIGNED:	05/22/2018

#### **Total Attachments: 3**

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PATENT 504925300 REEL: 045871 FRAME: 0117

PATENT ASSIGNMENT Hewlett-Packard Development Company, L.P. TO Hewlett Packard Enterprise Development LP

## PATENT ASSIGNMENT FROM

Hewlett-Packard Development Company, L.P.

TO

Hewlett Packard Enterprise Development LP

This Patent Assignment, together with the attached Schedule A, is effective as of October 2, 2015.

WHEREAS, **Hewlett-Packard Development Company**, **L.P.**, a limited partnership established under the laws of the State of Texas and having a principal place of business at 11445 Compaq Center Drive West, Houston, Texas 77070, U.S.A. (hereinafter referred to as "Assignor"), is the legal title holder of the patents and patent applications identified in the attached Schedule A (collectively referred to as "Assigned Patents and Patent Applications");

WHEREAS, **Hewlett Packard Enterprise Development LP**, a limited partnership established under the laws of the State of Texas and having a principal place of business at 11445 Compaq Center Drive West, Houston, Texas 77070, U.S.A. (hereinafter referred to as "Assignee") desires to acquire Assignor's entire right, title and interest, including the right of priority, in, to and under the Assigned Patents and Patent Applications; and

NOW THEREFORE, for good and valuable consideration, the adequacy of which is hereby acknowledged, Assignor and Assignee agree as follows:

Assignor hereby assigns, transfers, conveys and delivers to Assignee the entirety of Assignor's right, title and interest, including without limitation the right of priority, in, to and under the Assigned Patents and Patent Applications, and any inventions and improvements set forth therein, and any and all continuations, continuations-in-part (C-I-P's), divisionals, and renewals of and substitutes for any of the Assigned Patents and Patent Applications, and any and all patents and patent applications of the United States and of foreign countries thereto that may be granted thereon or therefor, and any reissues, or reexaminations, or extensions thereof and any goodwill of the business symbolized by the Assigned Patents and Patent Applications, and the registration thereof. Assignee shall have the right to sue, counterclaim and recover for past, present, and future

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PATENT ASSIGNMENT Hewlett-Packard Development Company, L.P. TO Hewlett Packard Enterprise Development LP

infringement and collect any royalties to third parties, damages (including past damages), or other income relating to the Assigned Patents and Patent Applications.

In connection with the foregoing, Assignor hereby authorizes the respective patent office or governmental agency in each jurisdiction to record the transfer of the Assigned Patents to Assignee as assignee of Assignor's right, title and interest therein, and to issue any and all patents or certificates of invention or equivalent which may be granted upon any of the Assigned Patents in the name of Assignee, as the assignee to the entire interest therein.

IN WITNESS WHEREOF, Assignor and Assignee have caused this Assignment to be executed by their authorized representatives.

FOR HEWLETT-	PACKARD	DEVELO	PMENT
COMPANY, L.P.			

# FOR HEWLETT PACKARD ENTERPRISE DEVELOPMENT LP

By: HPQ Holdings, LLC, its General Partner  By: Robert Wasson Sigr F13BF673837B481	By: Enterprise DC Holdings LLC, its General Partner  Docusigned by: By: Curlis G. Rose Sign — 8C018629078F4D3
Robert D. Wasson Name	Curtis G. Rose Name
Chief Patent Counsel Title	Chief Intellectual Property Counsel Title
October 27, 2015	October 27, 2015
Date	Date

			200			
82931446 Granted	Granted	8678600	3/19/2010	3/25/2014	13/387010 <b> </b> US	OPTICAL STAR COUPLER
83099529 Granted	Granted	9082745	4/30/2010	7/14/2015	13/640290 US	CIRCUIT MODULE
83242125 Granted	Granted	8821033	10/29/2010	9/2/2014	13/881087 US	OPTICAL CONNECTOR
83254989 Granted	Granted	8805189	5/20/2013	41863	13/898111 US	Two-phase Optical Communication Methods And Optical Bus
						Systems For Implementing The Same
83278378	83278378 Published		1/21/2011		13/991853 US	WAVEFRONT SYNTHESIZER SYSTEMS
83821222 Published	Published		8/31/2011		14/342098 <b> </b> US	MULTIMODE FIBER FOR MODULATABLE SOURCE
83852065	83852065 Published		9/30/2011		14/347366 US	OPTICAL POWER SPLITTER INCLUDING A ZIG-ZAG
83883386 Published	Published		10/28/2011		14/353995 US	DEVICES INCLUDING A DIAMOND LAYER
83930310	83930310 Published		12/9/2011		14/357781 US	Optical Connections
83948796	83948796 Published		1/10/2012		14/364082 US	OPTICAL CONNECTORS
83959822	83959822 Published		1/31/2012		14/371537 US	COMBINATION UNDERFILL-DAM AND ELECTRICAL-
						INTERCONNECT STRUCTURE FOR AN OPTO-ELECTRONIC
83987018 Granted	Granted	9130342	2/29/2012	9/8/2015	14/373385 US	UNIDIRECTIONAL RING LASERS
83992351 Allowed	Allowed		4/11/2012		14/373457 US	ROUTING OPTICAL SIGNALS
84113029	84113029 Published		7/30/2012		14/416781 US	COMPACT PHOTONIC PLATFORMS
84121874	84121874 Published		1/14/2015		14/596790 US	OPTICAL DEVICES BASED ON NON-PERIODIC SUB-
						WAVELENGTH GRATINGS
90017936	90017936 Application		1/30/2013		14/763577 <b> </b> US	DIRECTIONAL GRATING-BASED BACKLIGHTING
82242926	82242926 Application		10/30/2008		12/261405 US	REFINING A CONSTRAINT OF A COMPUTER EXECUTABLE
						SERVICE
82837277	82837277 Published		10/28/2011		13/283981 US	PROVISIONING IAAS SERVICES
82901665 Granted	Granted	9158568	1/30/2012	42290	13/360956 US	INPUT/OUTPUT OPERATIONS AT A VIRTUAL BLOCK DEVICE OF
						A STORAGE SERVER
83184693	83184693 Published		7/30/2010		13/812585 <b> </b> US	INFORMATION TECHNOLOGY SERVICE MANAGMENT
84265114	84265114 Application		8/7/2015		14/820926 US	CLOUD MODELS BASED ON NETWORK DEFINITION DATA
82168508 Granted	Granted	5765024	4/26/1996	6/9/1998	08/639881 US	SYSTEM FOR REQUESTING ACCESS TO DIMA CHANNEL
		*****				HAVING ADDRESS NOT IN DIMA REGISTERS BY REPLACING
						ADDRESS OF DIMA REGISTER WITH ADDRESS OF REQUESTED
						DMA CHANNEL
82168511 Granted	Granted	5875351	6/9/1998	2/23/1999	09/094218 US	SYSTEM FOR REQUESTING ACCESS TO DMA CHANNEL
		**************************************			LARRARI	HAVING ADDRESS NOT IN DIMA REGISTERS BY REPLACING
		******			*********	ADDRESS OF DMA REGISTER WITH ADDRESS OF REQUESTED
						DMA CHANNEL
82267835 Granted	Granted	6128194	8/5/1997	10/3/2000	08/906026 US	PC CARD WITH ELECTROMAGNETICAND THERMAL
						MANAGEMENT
84152843	84152843 Application		2/4/2015		14/613843 US	ENDPOINT POLICY CHANGE
82002872 Granted	Granted	6854065	7/30/2001	2/8/2005	09/918767 US	Loadshedding Uninterruptible Power Supply

PATENT REEL: 045871 FRAME: 0120

RECORDED: 05/22/2018