502154603 12/07/2012

PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Terrel Morris	05/25/2010
Wayne V. Sorin	05/25/2010
Paul Kessler Rosenberg	05/25/2010
Sagi Varghese Mathai	05/25/2010

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:	13698933

CORRESPONDENCE DATA

Fax Number: 9707784063

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone: (541)715-8443

Email: pto.assignments@hp.com

Correspondent Name: Hewlett-Packard Company

Address Line 1: 3404 E. Harmony Road MS 35

Address Line 2: Intellectual Property Administration

Address Line 4: Fort Collins, COLORADO 80528

NAME OF SUBMITTER:	Heather Ellis
--------------------	---------------

Total Attachments: 4

source=83136977-A#page1.tif source=83136977-A#page2.tif source=83136977-A#page3.tif source=83136977-A#page4.tif

> PATENT REEL: 029428 FRAME: 0467

CH \$40.00

502154603

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

Rev 10/09 (Assignment)

PATENT APPLICATION

ATTORNEY DOCKET NO.

-201000585- 83136977

ASSIGNMENT OF PATENT APPLICATION

I/We, the undersigned (each) have agreed and hereby agree to assign to HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P., a Texas Limited Partnership having its principal place of business in Houston, Texas, (hereinafter HPDC), in furtherance of my/our obligations to the Hewlett-Packard Company and its subsidiaries and affiliates, and do 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 Letters Patent of the United States entitled:

Filing Date: May 28, 2010	Application No.:	PCT/US2010/036538
and the invention(s) and improvement(s) set in P's), divisionals, and renewals of and substitute Patent of the United States and of countries reissues, or reexaminations, or extensions of substitute additionally authorize HPDC to find and enjoyed by HPDC, its successors, as terms for which said Letters Patent respective same would have been held and enjoyed by many AND laws hereby covenant that laws we have not executed and will not execute an interest that laws will, each time a request is made, an necessary or desirable to perfect the title to Patent, to HPDC, its successors, assigns, not HPDC, or to its nominee, all known facts restricters Patent, to testify in any legal proceeding continuations, C-I-P's, reissue and foreign applied everything possible to aid HPDC, its successors, for its or their own benefit, proper productives provided the expenses which may lead by HPDC. AND laws hereby authorize and requanted any official of any country or countries	forth therein, and any and all con- tes for said application for said Le foreign thereto which may be gr said Letters Patent. The applications in my/our name for saigns, nominees or legal represestly may be granted, reissued or e he/us had this assignment, and tra have full right to convey the entire my agreement in conflict herewith, and without undue delay, execute a said invention(s) or improvement my pecting said invention(s) or improvement my agreement and representatives, pecting said invention(s) or improvement my agreement and invention my agreement in conflict herewith, and without undue delay, execute a my agreement in conflict herewith, and tra my agreement in conflict herewith my agreement in my agreement my agre	tinuations, continuations-in-part (C-I- itters Patent, and any and all Letters anted thereon or therefore; and any ir Letters Patent in any country, to be intatives, to the full end of the term of extended, as fully and entirely as the inster not been made; is interest herein assigned, and that I and I/we further covenant and agree and deliver all such papers as may be s), said application and said Letters and I/we agree to communicate to vement(s), said application and said ecute all disclaimers and divisionals and declarations, and generally to legal representatives to obtain and (s) or improvement(s) in any and all such cooperation and assistance are and Trademarks of the United States
applications as aforesaid, to issue to HPDC, Patent for said invention(s) or improvement(s be issued and granted on or as a result of the (five further authorize and direct the application now identified by the attorney doc	as assignee of the entire right, the including any and all Letters Passagnia as a spolication aforesaid, in accordant attorneys of record to insert the sat forth about the set forth abou	itle and interest, any and all Letten itent of the United States which ma ce with the terms of this assignment serial number and filing date of sain
been made(known to them by the United State	as Patent and Trademark Office.	/ ₂₅ / ₂₀₁₀
Inventor's Signatura		/ ₂₅ /2010
Terrel Morris		/ ZS / ZO LU lication Signed
Inventor's Type://hame		ignment Signed
Inventor's Signatura		Section of the Control of the Contro
Inventor's Signature Michael Renne Ty Tan		

Page 1 of 2

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

PATENT APPLICATION

ATTORNEY DOCKET NO. -201000595 83136977

ASSIGNMENT OF PATENT APPLICATION (cont.)

inventor's Signature	Date Assignment Signed
Wayne V Sorin	
inventor's Typed Name	Date Application Signed
Inventor's Signature	Date Assignment Signed
Paul Kessler Rosenberg	
inventor's Typed Name	Date Application Signed
	The state of the s
inventor's Signature	Date Assignment Signed
Sagi Varghese Mathai Inventor's Typed Name	Date Application Signed
· · · · · · · · · · · · · · · · · · ·	
Inventor's Signature	Date Assignment Signed
Inventor's Typed Name	Date Application Signed
Inventor's Signature	Date Assignment Signed
Inventor's Typed Name	Date Application Signed
Inventor's Signature	Date Assignment Signed
Inventor's Typed Name	Date Application Signed

Rev 10/09 (Assignment)

Page 2 of 2

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

PATENT APPLICATION

ATTORNEY DOCKET NO. ____

-201080595 83136977

ASSIGNMENT OF PATENT APPLICATION

I/We, the undersigned (each) have agreed and hereby agree to assign to HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P., a Texas Limited Partnership having its principal place of business in Houston, Texas, (hereinafter HPDC), in furtherance of my/our obligations to the Hewlett-Packard Company and its subsidiaries and affiliates, and do 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 Letters Patent of the United States entitled:

itle and interest, including the right of priority, in, to a entitled:	and under an application for Letters Patent of the United States
REA ARRAY WAVEGUIDE POWER SPLITTER	
Filing Date: May 28, 2010	Application No.: PCT/US2010/036538
Patent of the United States and of countries foreign reissues, or reexaminations, or extensions of said Let I/we additionally authorize HPDC to file applied and enjoyed by HPDC, its successors, assigns, sems for which said Letters Patent respectively may same would have been held and enjoyed by me/us he AND I/we hereby covenant that I/we have fure have not executed and will not execute any agree that I/we will, each time a request is made, and without patent, to HPDC, its successors, assigns, nominee HPDC, or to its nominee, all known facts respecting Letters Patent, to testify in any legal proceedings, to continuations, C-I-P's, reissue and foreign application do everything possible to aid HPDC, its successors enforce, for its or their own benefit, proper patent procupities provided the expenses which may be incurated by HPDC; AND I/we hereby authorize and request the and any official of any country or countries foreign applications as aforesaid, to issue to HPDC, as assignated on or as a result of the application for incoming the insued and granted on or as a result of the application now identified by the attorney docket number made known to them by the United States Patent made known to them by the United States Patent made known to them by the United States Patent made known to them by the United States Patent made known to them by the United States Patent made known to them by the United States Patent made known to them by the United States Patent made known to them by the United States Patent made known to them by the United States Patent made known to them by the United States Patent made known to them by the United States Patent made known to them by the United States Patent made known to them by the United States Patent made known to the made known to them by the United States Patent made known to the made known to the united States Patent Made an	ications in my/our name for Letters Patent in any country, to be nominees or legal representatives, to the full end of the term or be granted, reissued or extended, as fully and entirely as the ad this assignment, and transfer not been made; uit right to convey the entire interest herein assigned, and that I/ement in conflict herewith, and I/we further covenant and agree out undue delay, execute and deliver all such papers as may be vention(s) or improvement(s), said application and said Letters or legal representatives, and I/we agree to communicate to said invention(s) or improvement(s), said application and said sign all lawful papers, to execute all disclaimers and divisionals, as assigns, nominees and legal representatives to obtain and rotection for said invention(s) or improvement(s) in any and all arred by me/us in lending such cooperation and assistance are Commissioner of Patents and Trademarks of the United States in to the United States whose duty it is to issue patents on signee of the entire right, title and interest, any and all Letters ding any and all Letters Patent of the United States which may attorn aforesaid, in accordance with the terms of this assignment, eys of record to insert the serial number and filling date of said mober and title set forth above as soon as the same shall have
Inventor's Signature	Osta Minikanian Odriga
Terrel Morris Inventor's Typed Name	Date Application Signed
Lulu Verne 75 T	5/26/(0 Date Assignment Signed
Michael Renne Ty Tan	5/25/6
inventor's Typed Name	Date Application Signed

Page 1 of 2

Rev 10/09 (Assignment)

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

PATENT APPLICATION

ATTORNEY DOCKET NO. --201000595 83136977

ASSIGNMENT OF PATENT APPLIC	ATION (cont.)
Warre V Soris	5/25/10
nventor's Signature	Date Assignment Signed
Nayne V Sorin nventor's Typed Name	5/25//0 Date Application Signed
Part Koseli Rosest	5/25/10 Date Assignment Signed
inventor's Signature	5/25/10
Paul Kessler Rosenberg Inventor's Typed Name	5/27/70 Date Application Signed
	5/25/10 Date Assignment Signed
inventor's, Signature	Date Assignment Signed
Sagi Varghese Mathal	5/25/10 Date Application Signed
inventor's Typed Name	Date Abbut soon orduse
e e	
Inventor's Signature	Dele Assignment Signed
Inventor's Typed Name	Date Application Signed
Inventor's Signature	Date Assignment Signed
Inventor's Typed Name	Date Application Signed
**************************************	er
Inventor's Signature	Date Assignment Signed
	Date Application Signed
Invantor's Typed Name	core utilimentes, endines

Rev 10/09 (Assignment)

Page 2 of 2

PATENT REEL: 029428 FRAME: 0471