PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
DON MICHAEL	02/05/2004
MARI J. ROSSMAN	02/05/2004
BRADLEY BOWER	02/05/2004
CHARLES CRAIG HALUZAK	02/05/2004
JOHN R. STERNER	02/05/2004
QUAN QI	02/06/2004
JOHN KANE	02/05/2004

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:	12262288

CORRESPONDENCE DATA

Fax Number: (970)778-4063

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using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

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HEWLETT-PACKARD COMPANY Correspondent Name: 3404 E. HARMONY ROAD MS 35 Address Line 1:

Address Line 2: INTELLECTUAL PROPERTY ADMINISTRATION

FORT COLLINS, COLORADO 80528 Address Line 4:

ATTORNEY DOCKET NUMBER:	82181351
NAME OF SUBMITTER:	TERRI WALKER
SIGNATURE:	/Terri Walker/
DATE SIGNED:	01/15/2015

PAIENI **REEL: 034720 FRAME: 0149** 503136980

Total Attachments: 3 source=Assignment#page1.tif source=Assignment#page2.tif source=Assignment#page3.tif

PATENT REEL: 034720 FRAME: 0150

PATENT APPLICATION

ATTORNEY DOCKET NO. 200314165

HEWLETT-PACKARD COMPANY Intellectual Property Administrator P. O. Box 272400 Fort Collins. Colorado 80527-2400

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:

application for Letters Patent of the Ol A Package for a Micro-Electro Mechan	
Filing date: Feb. 9, 2004	Application No.: 10/775,517
continuations-in-part (C-I-P's), divisior Letters Patent, and any and all Letters	ement(s) set forth therein, and any and all continuations, hals, and renewals of and substitutes for said application for said Patent of the United States and of countries foreign thereto which and any reissues, or reexaminations, or extensions of said Letters
country, to be held and enjoyed by Hi the full end of the term or terms for v	OC to file applications in my/our name for Letters Patent in any PDC, its successors, assigns, nominees or legal representatives, to which said Letters Patent respectively may be granted, reissued or he same would have been held and enjoyed by me/us had this de;
that I/we have not executed and will covenant and agree that I/we will, ead deliver all such papers as may be not improvement(s), said application and selegal representatives, and I/we agree respecting said invention(s) or improved legal proceedings, to sign all lawful C-I-P's, reissue and foreign application everything possible to aid HPDC, its seand enforce, for its or their own benefits.	we have full right to convey the entire interest herein assigned, and not execute any agreement in conflict herewith, and I/we further ich time a request is made, and without undue delay, execute and recessary or desirable to perfect the title to said invention(s) or said Letters Patent, to HPDC, its successors, assigns, nominees or to communicate to HPDC, or to its nominee, all known facts ement(s), said application and said Letters Patent, to testify in any papers, to execute all disclaimers and divisionals, continuations, as, to make all rightful oaths and declarations, and generally to do successors, assigns, nominees and legal representatives to obtain fit, proper patent protection for said invention(s) or improvement(s) are expenses which may be incurred by me/us in lending such y HPDC;
States and any official of any country patents on applications as aforesaid, t any and all Letters Patent for said inve	equest the Commissioner of Patents and Trademarks of the United or countries foreign to the United States whose duty it is to issue to issue to HPDC, as assignee of the entire right, title and interest, ention(s) or improvement(s), including any and all Letters Patent of sed and granted on or as a result of the application aforesaid, in ignment.
said application now identified by the	he attorneys of record to insert the serial number and filing date of attomey docket number and title set forth above as soon as the them by the United States Patent and Trademark Office.
IN WITNESS WHEREOF, I/w e here	eynto set my/our hand(s) and seal(s):
Dunald I Mirchael nventor's Signature (Seal)	
nventor's Typed Name: <u>Don Michael</u>	Date Application Signed: 2/5/2004
State of	
County of	ss.:
Before me this day of personally known or proved to me on the ba instrument of assignment to be his/her free act a	, personally appearedwho is sis of satisfactory evidence to be the person who acknowledged the foregoing and deed.
	Notary Public My commission expires:

Rev 10/03 (Assign)

(Use Page Two For Additional Inventor(s) Signature(s))

Page 1 of 3

When recorded please return to:

HEWLETT-PACKARD COMPANY Intellectual Property Administration P. O. Box 272400 Fort Coffins, Colorado 80527-2400

PATENT APPLICATION ATTORNEY DOCKET NO. 200314165

ASSIGNMENT OF PATENT APPLICATION (cont.)

IN WITNESS WHERE	EOF, I/we hereunto set	my/our hand(s) and seal(s):	
Mai 1	Rayman	Date Assignment Signed:	2/5/24
Inventor's Signature Sea	i) / Octobrian	bate Assignment dignet	7 - 701
Inventor's Typed Name:_	Mari J. Rossman	Date Application	Signed: 2/5/64
State of)		, ,
County of) ss.:		
•	,		
personally known or pro		•	Rossman who is person who acknowledged the foregoing
			Notary Public
			My commission expires:
Frankly Conventor's Signature (Sea	g Sona	Date Assignment Signed:	12/05/2004
Inventor's Typed Name:_I	Bradley Bower	Date Application	Signed: 02/05/2004
State of)		
County of) ss.:)		
oersonally known or pro			y Bower who is person who acknowledged the foregoing
			Notary Public
			My commission expires:
Charle (rain Ahlam	Date Assignment Signed:	2/5/24
nventor's Signature (Seal		bate Assignment agried	
nventor's Typed Name;_C	Charles Craig Haluzak	Date Application S	Signed: 2/5/04
State of)		
County of) ss.:)		
ersonally known or pro			s Craig Haluzak who is person who acknowledged the foregoing
			Notary Public
			My commission expires:

Page 2 of 3

(Use Page Three For Additional Inventor(s) Signature(s))

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Intellectual Property Administration
P. O. Box 272400
Fort Collins, Colorado 80527-2400

PATENT APPLICATION
ATTORNEY DOCKET NO. 200314165

ASSIGNMENT OF PATENT APPLICATION (cont.)

IN WITNESS WHEREOF, I we hereunto set my	our hand(s) and seal(s):
W. D.	Date Assignment Signed: 2/5/04
Inventor's Signature (Seal)	•
Inventor's Typed Name: John R. Sterner	Date Application Signed 2/5/04
State of) ss.:	
County of)	
	, personally appeared <u>John R. Sterner</u> who is isfactory evidence to be the person who acknowledged the foregoing
instrument of assignment to be his/her free act and deed.	
	Notary Public My commission expires:
2-2	Date Assignment Signed: Date Application Signed 2/6/04
Inventor's Signature (Seal)	2///
Inventor's Typed Name: Quan Qi	Date Application Signed
State of) ss.:	
County of)	
Before me this day of	, personally appeared Quan Qi who is isfactory evidence to be the person who acknowledged the foregoing
	Notary Public
	My commission expires:
Inventor's Signature (Seal)	Date Assignment Signed: Feb. 5, 2004
Inventor's Typed Name: John Kane	Date Application Signed Feb 5, 2004
State of)	
County of	
Before me this day of personally known or proved to me on the basis of sati instrument of assignment to be his/her free act and deed.	, personally appeared <u>John Kane</u> who is isfactory evidence to be the person who acknowledged the foregoing
	Notary Public My commission expires:

Page 3 of 3

(Use Next Page For Additional Inventor(s) Signature(s))

Rev 10/03 (Assign2)

RECORDED: 01/15/2015

PATENT REEL: 034720 FRAME: 0153