504545044 09/13/2017

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	

CONVEYING PARTY DATA

Name	Execution Date
KAHLIL BRE OPPENHEIMER	03/31/2015
JAIMIN MUKESH DAVE	03/31/2015

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:	15557890

CORRESPONDENCE DATA

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Email: hpe.ip.mail@hpe.com

Correspondent Name: HEWLETT PACKARD ENTERPRISE
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Address Line 4: FORT COLLINS, COLORADO 80528

ATTORNEY DOCKET NUMBER:	92001604	
NAME OF SUBMITTER:	KORY J. KOTRBA	
SIGNATURE:	/Kory J. Kotrba/	
DATE SIGNED:	09/13/2017	

Total Attachments: 2

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PATENT 504545044 REEL: 043573 FRAME: 0335

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

Rev 8/2014 (Assignment)

PATENT APPLICATION

RECORD ID: 84114407

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 HFWI FTT-PACKARD DEVELOPMENT COMPANY L.P. a Texas

Limited Partnership he subsidiaries and affiliat	aving its principal place of bu es, agree to assign and transfe	isiness in Houston, Texas, (hereinafter HPDC), and to its rand hereby assign and transfer to HPDC, its successors and he right of priority, in, to and under an application for Patent
OPTIMIZE QUERY BA	SED ON UNIQUE ATTRIBUTE	:
Filing Date:		Application No.:
divisionals, and renewa	ils of and substitutes for said a	in, and any and all continuations, continuations-in-part (C-I-P's), pplication for said Patent, and any and all other Patent of any efore; and any reissues, or reexaminations, or extensions of said
by HPDC, its successor Patent respectively may	rs, assigns, nominees or legal re	in my/our name for Patent in any country, to be held and enjoyed presentatives, to the full end of the term or terms for which said ed, as fully and entirely as the same would have been held and een made;
executed and will not extime a request is made, perfect the title to said is nominees or legal represaid invention(s) or imp papers, to execute all rightful oaths and declar and legal representative	recute any agreement in conflict and without undue delay, execut invention(s) or improvement(s), si sentatives, and I/we agree to cor rovement(s), said application and disclaimers and divisionals, conf rations, and generally to do eve is to obtain and enforce, for its or and all countries provided the	convey the entire interest herein assigned, and that I/we have not herewith, and I/we further covenant and agree that I/we will, each e and deliver all such papers as may be necessary or desirable to iid application and said Patent, to HPDC, its successors, assigns, nmunicate to HPDC, or to its nominee, all known facts respecting said Patent, to testify in any legal proceedings, to sign all lawful inuations, C-I-P's, reissue and foreign applications, to make all rything possible to aid HPDC, its successors, assigns, nominees their own benefit, proper patent protection for said invention(s) or expenses which may be incurred by me/us in lending such
applications as aforesai	 d, to issue to HPDC, as assigne ment(s) which may be issued 	of any country or countries whose duty it is to issue patents on e of the entire right, title and interest, any and all Patent for said and granted on or as a result of the application aforesaid, in
I/we further author application for Patent, no known to them.	ize and direct the attorneys of ow identified by the Record ID an	record to insert the filing date and application number of said d title set forth above, as soon as the same shall have been made
IN WITNESS WHE	REOF, I/we hereunto set my/o	ur hand(s) and seal(s):
Wedi G	and the same of th	03/31/2015
Inventor's Signature		Date
Kahlil Bre	Oppenheimer	
First/Middle Name	Last Name	
nventor's Signature		Date
Jaimin	Dave	
irst/Middle Name	Last Name	

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

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RECORD ID:	84114407
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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 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 assigns, the entire right, entitled:	, agree to assign and transfe title and interest, including t	r and hereby assign and transfer to HPDC, its successors and he right of priority, in, to and under an application for Patent
OPTIMIZE QUERY BASI	ED ON UNIQUE ATTRIBUTI	
Filing Date:		Application No.:
divisionals, and renewals	of and substitutes for said a	ein, and any and all continuations, continuations-in-part (C-I-P's) pplication for said Patent, and any and all other Patent of any efore; and any reissues, or reexaminations, or extensions of said
by HPDC, its successors, Patent respectively may b	assigns, nominees or legal re	in my/our name for Patent in any country, to be held and enjoyed presentatives, to the full end of the term or terms for which said ed, as fully and entirely as the same would have been held and seen made;
executed and will not exectime a request is made, ar perfect the title to said invisionminees or legal represe said invention(s) or improspapers, to execute all disrightful oaths and declarated and legal representatives to	cute any agreement in conflict id without undue delay, execut ention(s) or improvement(s), si ntatives, and I/we agree to con rement(s), said application and iclaimers and divisionals, con itions, and generally to do eve to obtain and enforce, for its or and all countries provided the	convey the entire interest herein assigned, and that I/we have not herewith, and I/we further covenant and agree that I/we will, each e and deliver all such papers as may be necessary or desirable to aid application and said Patent, to HPDC, its successors, assigns mmunicate to HPDC, or to its nominee, all known facts respecting I said Patent, to testify in any legal proceedings, to sign all lawful tinuations, C-I-P's, reissue and foreign applications, to make all rything possible to aid HPDC, its successors, assigns, nominees their own benefit, proper patent protection for said invention(s) or expenses which may be incurred by me/us in lending such
applications as aforesaid,	to issue to HPDC, as assigne ent(s) which may be issued	of any country or countries whose duty it is to issue patents on e of the entire right, title and interest, any and all Patent for said and granted on or as a result of the application aforesaid, in
I/we further authorize application for Patent, now known to them.	and direct the attorneys of identified by the Record ID an	record to insert the filing date and application number of said d tille set forth above, as soon as the same shall have been made
IN WITNESS WHERE	OF, I/we hereunto set my/o	ur hand(s) and seal(s):
nventor's Signature		Oate
Kahlil Bre	Oppenheimer	
irst/Middle Name	Last Name	in in in an an
dan -		2100 18 80
nventor's Signature		Date
Jaimin Mukesh	Dave	
First/Middle Name	Last Name	······································

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PATENT REEL: 043573 FRAME: 0337

RECORDED: 09/13/2017

Rev 8/2014 (Assignment)