PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4529870

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
NING GE	10/29/2014
BOON BING NG	10/29/2014
LEONG YAP CHIA	10/29/2014

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:	15520698		

CORRESPONDENCE DATA

Fax Number: (970)778-4063

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.

Correspondent Name: HP INC.

Address Line 1: 3390 E. HARMONY ROAD MS 35

Address Line 2: INTELLECTUAL PROPERTY ADMINISTRATION

Address Line 4: FORT COLLINS, COLORADO 80528

ATTORNEY DOCKET NUMBER: 84621479

NAME OF SUBMITTER: KUBAE KIM

SIGNATURE: /Kubae Kim/

DATE SIGNED: 08/01/2017

Total Attachments: 3

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PATENT 504483168 REEL: 043155 FRAME: 0237

Rev.8/2014 (Assignment)

HEWLETT-PACKARD COMPA Intellectual Property Administrat			PATENT APPLICATION
3404 E. Harmony Road Mail Stop 35		RECORD ID:	84032966
Fort Collins, Colorado 80528	A COLONNAENT OF I	ATERIT ADDI ICATIO	ri.
and in furtherance of my/o Limited Partnership having subsidiaries and affiliates, a assigns, the entire right, title entitled:	each), for good and valuable our obligations to HEWLET its principal place of bus gree to assign and transfer a e and interest, including the	T-PACKARD DEVELOF iness in Houston, Texa and hereby assign and to	of of which is hereby acknowledged, PMENT COMPANY, L.P., a Texas is, (hereinafter HPDC), and to its ansfer to HPDC, its successors and and under an application for Patent
RATIOED LOGIC WITH A I	HIGH IMPEDANCE LOAD		
Filing Date: 04-20-201	7	Application No.:	15/520,698
divisionals, and renewals of	and substitutes for said app	olication for said Patent,	ations, continuations-in-part (C-I-P's), and any and all other Patent of any reexaminations, or extensions of said
by HPDC, its successors, as	signs, nominees or legal rep granted, reissued or extended	resentatives, to the full end, as fully and entirely as	n any country, to be held and enjoyed id of the term of terms for which said the same would have been held and
executed and will not execute time a request is made, and v perfect the title to said inventi- nominees or legal representa said invention(s) or improven papers, to execute all discla- rightful oaths and declaration and legal representatives to	e any agreement in conflict he without undue delay, execute ion(s) or improvement(s), said tives, and I/we agree to com- nent(s), said application and s imers and divisionals, continus, and generally to do every obtain and enforce, for its or the all countries provided the	erewith, and I/we further or and deliver all such papers d application and said Pater municate to HPDC, or to it said Patent, to testify in an auations, C-I-P's, reissue thing possible to aid HPD their own benefit, proper pa	erein assigned, and that I/we have not overant and agree that I/we will, each is as may be necessary or desirable to ent. to HPDC, its successors, assigns, is nominee, all known facts respecting ny legal proceedings, to sign all lawful and foreign applications, to make all inc. its successors, assigns, nominees atent protection for said invention(s) or incurred by me/us in lending such
applications as aforesaid, to	issue to HPDC, as assignee (s) which may be issued at	of the entire right, title an	s whose duty it is to issue patents on d interest, any and all Patent for said esult of the application aforesaid, in
I/we further authorize a application for Patent, now id known to them.	nd direct the attorneys of re entified by the Record ID and	ecord to insert the filing title set forth above, as so	date and application number of said on as the same shall have been made
IN WITNESS WHEREOF	, I/we hereunto set my/ou	r hand(s) and seal(s):	
(ga Jan	-	٠ رة	479,1014
Inventor's Signature		Date	
Ning	Ge		
First/Middle Name	Last Name		
Inventor's Signature		Date	
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Boon Bing	Ng Last Name		

Page 1 of 2

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

PATENT	APPI	ICAT	ION
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RECORD ID:	84032966

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, agree to assign and transfer and 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 Patent entitled:

RATIOED LOGIC WITH A HIGH IMPEDANCE LOAD

Filing Date: _	04-20-2017	Application No.:	15/520,698
divisionals, and	ion(s) and improvement(s) set forth therein, d renewals of and substitutes for said app to which may be granted thereon or therefo	lication for said Patent,	and any and all other Patent of any

I/we additionally authorize HPDC to file applications in my/our name for Patent in any country, to be held and enjoyed by HPDC, its successors, assigns, nominees or legal representatives, to the full end of the term or terms for which said Patent respectively may be granted, reissued or extended, as fully and entirely as the same would have been held and enjoyed by me/us had this assignment, and transfer not been made:

AND I/we hereby covenant that I/we have full right to convey the entire interest herein assigned, and that I/we have not executed and will not execute any agreement in conflict herewith, and I/we further covenant and agree that I/we will, each time a request is made, and without undue delay, execute and deliver all such papers as may be necessary or desirable to perfect the title to said invention(s) or improvement(s), said application and said Patent, to HPDC, its successors, assigns, nominees or legal representatives, and I/we agree to communicate to HPDC, or to its nominee, all known facts respecting said invention(s) or improvement(s), said application and said Patent, to testify in any legal proceedings, to sign all lawful papers, to execute all disclaimers and divisionals, continuations, C-I-P's, reissue and foreign applications, to make all rightful oaths and declarations, and generally to do everything possible to aid HPDC, its successors, assigns, nominees and legal representatives to obtain and enforce, for its or their own benefit, proper patent protection for said invention(s) or improvement(s) in any and all countries provided the expenses which may be incurred by me/us in lending such cooperation and assistance are paid by HPDC;

AND I/we hereby authorize and request the official of any country or countries whose duty it is to issue patents on applications as aforesaid, to issue to HPDC, as assignee of the entire right, title and interest, any and all Patent for said invention(s) or improvement(s) which may be issued and granted on or as a result of the application aforesaid, in accordance with the terms of this assignment.

If we further authorize and direct the attorneys of record to insert the filing date and application number of said application for Patent, now identified by the Record ID and title set forth above, as soon as the same shall have been made known to them.

IN WITNESS WHEREOF, I/we hereunto set my/our hand(s) and seal(s):

Inventor's Signature		-	Date
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First/Middle Name +	Last Name		
			10 - 29 - 2014.
Inventor's Signature	*		Date
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First/Middle Name	Last Name		
Rev 8/2014 (Assignment)		Page 1 of 2	

HEWLETT-PACKARD COMPANY Intellectual Property Administrator				PATENT APPLICATION
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Fort Collins, Colorado 80528		KEC	ORD (D:	04032300
A	SSIGNMENT OF	PATENT APPLI	CATION (con	t.)
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Inventor's Signature			Date '	
Loona Van	Chia			
Leong Yap First/Middle Name	Last Name			
LILZAMIOCIE MONIE	Last Name			
Inventor's Signature	<u> </u>		Date	
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PATENT REEL: 043155 FRAME: 0240