# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT5433444

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
REYNALDO V VILLAVELEZ	10/19/2016
TERRY MCMAHON	10/19/2016
DONALD W SCHULTE	10/19/2016

### **RECEIVING PARTY DATA**

Name:	Hewlett-Packard Development Company, L.P.	
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City:	Houston	
State/Country:	TEXAS	
Postal Code:	77070	

### **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	16323219

### CORRESPONDENCE DATA

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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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HP INC. **Correspondent Name:** 

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ATTORNEY DOCKET NUMBER: 85681020 NAME OF SUBMITTER: **KUBAE KIM** SIGNATURE: /Kubae Kim/ **DATE SIGNED:** 03/21/2019

**Total Attachments: 3** 

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> **PATENT REEL: 048659 FRAME: 0713** 505386651

HP Inc.	
3390 E. Harmony Road	
Mail Stop 35	
Fort Collins, Colorado 80	528

## PATENT APPLICATION

RECORD ID:	85681020
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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

subsidiaries an	ıd affiliates, agre∈	to assign and transfer ar	nd hereby assign and t	as, (hereinafter HPDC), and to its ransfer to HPDC, its successors and and under an application for Paten
DISSIPATING	HEAT OF HEAT	ING ELEMENTS		
Filing Date:	04Feb2019	***************************************	Application No.:	16/323219
divisionals, and	renewals of and	substitutes for said appli-	cation for said Patent,	uations, continuations-in-part (C-I-P's) and any and all other Patent of an reexaminations, or extensions of sain
by HPDC, its si Patent respectis	uccessors, assign: vely may be grant	s, nominees or legal repre-	sentatives, to the full eas fully and entirely as	in any country, to be held and enjoyend of the term or terms for which said the same would have been held and
executed and w time a request is perfect the title in nominees or leg said invention(s) papers, to exec rightful oaths an legal representa improvement(s)	rill not execute any s made, and without to said invention(se pal representatives ) or improvement( cute all disclaimer d declarations, an atives to obtain ar	agreement in conflict here ut undue delay, execute ar ) or improvement(s), said a , and t/we agree to commi- s), said application and sai s and divisionals, continui d generally to do everything d enforce, for its or their ntries provided the expense	ewith, and I/we further out deliver all such paper application and said Pal unicate to HPDC, or to id id Patent, to testify in a ations, C-I-P's, reissue g possible to aid HPDC, own benefit, proper pa	nerein assigned, and that I/we have no covenant and agree that I/we will, each is as may be necessary or desirable to ent, to HPDC, its successors, assigns its nominee, all known facts respecting my legal proceedings, to sign all lawful and foreign applications, to make a its successors, assigns, nominees and tent protection for said invention(s) of d by me/us in lending such cooperation
applications as invention(s) or	aforesaid, to issue	s to HPDC, as assignee of rhich may be issued and	the entire right, title ar	s whose duty it is to issue patents or nd interest, any and all Patent for said result of the application aforesaid, in
I/we further application for P known to them.	r authorize and d atent, now identifi	irect the attorneys of record by the Record ID and tit	ord to insert the filing te set forth above, as so	date and application number of said on as the same shall have been made
IN WITNES	SS WHEREOF, I/w	e hereunto set my/our h	and(s) and seal(s):	·
Den	dro Vi	Monrola	pg 6	2688 7016
Inventor's Sigratu		<del></del>	Date	
Reynaldo V.		Villavelez		
First/Middle Name		Last Name	,	•
Inventor's Signati	ne		Date	
Terry		McMahon		
First/Middle Name	*****************************	Last Name	***************************************	
Rev 8/2014 (Assignme	nt)	Page :	1 of 2	

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HP Inc.
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Fort Collins, Colorado 80528

## PATENT APPLICATION

RECORD ID:	85681020
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## **ASSIGNMENT OF PATENT APPLICATION**

and in further	ance of my/our o	obligations to HEWL	ETT-PACKARD DEVEL	OPMENT COMPANY, L.P., a Texas exas, (hereinafter HPDC), and to its
				d transfer to HPDC; its successors and o and under an application for Patent
DISSIPATING	HEAT OF HEATI	NG ELEMENTS		
Filing Date:	04Feb2019		Application No.:	16/323219
divisionals, and	renewals of and	substitutes for said a	application for said Pater	tinuations, continuations-in-part (C-I-P's) it, and any and all other Patent of any or reexaminations, or extensions of said
by HPDC, its si Patent respective	uccessors, assigns rely may be grante	s, nominees or legal n	epresentatives, to the full ded, as fully and entirely	nt in any country, to be held and enjoyed end of the term or terms for which said as the same would have been held and
executed and we time a request is perfect the title nominees or leg said invention(s papers, to execute rightful oaths an legal represental improvement(s)	rill not execute any s made, and witho to said invention(s pal representatives ) or improvement(i aute all disclaiment d declarations, and atives to obtain an	agreement in conflict ut undue delay, execu ) or improvement(s), s , and I/we agree to co s), said application and s and divisionals, cor d generally to do every id enforce, for its or t htries provided the exp	therewith, and I/we further the and deliver all such partial application and said furmunicate to HPDC, or I desaid Patent, to testify intinuations, C-I-P's, reissorthing possible to aid HPD heir own benefit, proper	at herein assigned, and that I/we have no r covenant and agree that I/we will, each pers as may be necessary or desirable to Patent, to HPDC, its successors, assigns to its nominee, all known facts respecting any legal proceedings, to sign all lawfulue and foreign applications, to make all C, its successors, assigns, nominees and patent protection for said invention(s) or red by me/us in lending such cooperation
applications as invention(s) or	aforesaid, to issue	to HPDC, as assigne hich may be issued	se of the entire right, title	ries whose duty it is to issue patents or and interest, any and all Patent for said a result of the application aforesaid, in
				g date and application number of said soon as the same shall have been made
IN WITNES	SS WHEREOF, I/w	e hereunto set my/o	our hand(s) and seal(s):	
Inventor's Signate	ure		Date	
Reynaldo V.		Villavelez		
First/Middle Name	·	Last Name		
				10/19/2016
Inventor's Signate			Date	
Terry		McMahon		
First/Middle Name	*	Last Name		
Rev 8/2014 (Assignme	ent)	g	age t of 2	

HP Inc. 3390 E. Harmony Road Mail Stop 35

# PATENT APPLICATION

Mail Stop 35 Fort Collins, Colorado 8052	3	RECORD ID: 85681020
	ASSIGNMENT OF PAT	ENT APPLICATION (cont.)
W.M.	<u>'N</u>	10-19-16 Date
macinia a comicina		
Donald W.	Schulte	•
First/Middle Name	Last Name	
inventor's Signature		Date
First/Middle Name	Last Name	
Inventor's Signature		Date
First/Middle Name	Last Name	,
•		
Inventor's Signature		Date
First/Middle Name	Last Name	······································
Inventor's Signature		Date
First/Middle Name	Last Name	
inventor's Signature		Date
First/Middle Name	Last Name	

Page 2 of 2

**RECORDED: 03/21/2019** 

Rev 8/2014 (Assignment)

PATENT REEL: 048659 FRAME: 0716