505802467 12/04/2019

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5849296

SUBMISSION TYPE:		NEW ASSIGNMENT	
NATURE OF CONVEYA	ONVEYANCE: ASSIGNMENT		
CONVEYING PARTY D	ΑΤΑ		
		Name	Execution Date
DAVID ALLEN MOORE			09/25/2012
JOHN P FRANZ			09/25/2012
TAHIR CADER			10/09/2012
MICHAEL LAWRENCE	SABOTT	A	09/20/2012
RECEIVING PARTY DA	TA		
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City:	Houstor	Houston	
State/Country:	TEXAS		
Postal Code:	77070		
PROPERTY NUMBERS	Total: 1		1
Property Type		Number	
Application Number:		15935540]
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Email:		hpe.ip.mail@hpe.com	
		npe.ip.maii@npe.com	
Correspondent Name:		HEWLETT PACKARD ENTERPRISE	
Correspondent Name: Address Line 1:		• • •	
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Address Line 1: Address Line 4: ATTORNEY DOCKET N	:	HEWLETT PACKARD ENTERPRISE 3404 E. HARMONY ROAD MS 79 FORT COLLINS, COLORADO 80528	
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Address Line 1: Address Line 4: ATTORNEY DOCKET NU NAME OF SUBMITTER: SIGNATURE:	:	HEWLETT PACKARD ENTERPRISE 3404 E. HARMONY ROAD MS 79 FORT COLLINS, COLORADO 80528 90541056 TRACI THOMAS	
Address Line 1: Address Line 4: ATTORNEY DOCKET NU NAME OF SUBMITTER: SIGNATURE: DATE SIGNED: Total Attachments: 4	JMBER:	HEWLETT PACKARD ENTERPRISE 3404 E. HARMONY ROAD MS 79 FORT COLLINS, COLORADO 80528 90541056 TRACI THOMAS /Traci Thomas/ 12/04/2019	
Address Line 1: Address Line 4: ATTORNEY DOCKET NU NAME OF SUBMITTER: SIGNATURE: DATE SIGNED:	JMBER:	HEWLETT PACKARD ENTERPRISE 3404 E. HARMONY ROAD MS 79 FORT COLLINS, COLORADO 80528 90541056 TRACI THOMAS /Traci Thomas/ 12/04/2019	

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PATENT REEL: 051174 FRAME: 0231

PATENT	APPL	ICATIO	ON

RECORD ID:

82962670

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

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:

COOLING ASSEMBLY

Filing Date:	March 26, 2018	Application No.:	15/935,540
and the invention(s) and improvement(s) set forth therein	, and any and all contin	nuations, continuations-in-part (C-I-
Det divisionale an	d renewals of and substitutes for said	application for said Left	ters Patent, and any and all Letters

P's), divisionals, and renewals of and substitutes for said application for said Letters Patent, and any and all Letters Patent of the United States and of countries foreign thereto which may be granted thereon or therefore; and any reissues, or reexaminations, or extensions of said Letters Patent. I/we additionally authorize HPDC to file applications in my/our name for Letters Patent in any country, to be

I/we additionally authorize HPDC to file applications in my/our name for Letters 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 Letters 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 Letters 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 Letters 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 l/we hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any country or countries foreign to the United States 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 Letters Patent for said invention(s) or improvement(s), including any and all Letters Patent of the United States which may be issued and granted on or as a result of the application aforesaid, in accordance with the terms of this assignment.

I/we further authorize and direct the attorneys of record to insert the serial number and filing date of said application now identified by the Record ID and title set forth above as soon as the same shall have been made known to them by the United States Patent and Trademark Office.

Lovid

inventor's Signature

David Allen Moore Inventor's Typed Name

Page 1 of 2

Inventor's Signature

Date Assignment Signed

John P Franz Inventor's Typed Name

Rev 09/51 (Assignment)

7 / 2 5 / 12 Date Assignment Signed

Date Application Signed

Date Application Signed

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

PATENT APPLICATION

RECORD ID:

82962670

ASSIGNMENT OF PATENT APPLICATION (cont.)

Inventor's Signature

Tahir Cader inventor's Typed Name

Salatta

Inventor's Signature

Michael Lawrence Sabolta Inventor's Typed Name

Date Assignment Signed

Date Application Signed

<u>9-20-2012</u> Oate Assignment Signed

9-19-2012 Date Application Signed

Date Assignment Signed

Date Application Signed

Date Assignment Signed

Date Application Signed

Inventor's Signature

Inventor's Typed Name

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Date Assignment Signed

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Inventor's Typed Name

Date Application Signed

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Page 2 of 2

PATENT REEL: 051174 FRAME: 0233

PATENT APPLICATION

HEVILETT PACKARD COMPANY intellectual Property Administrator 3404 E. Harmony Rosd. Mail Stop 35 Fort Collins, Colorado 80828

RECORD (D:

82962670

ASSIGNMENT OF PATENT APPLICATION

VWe, the undersigned (each) have agreed and hareby agree to assign to HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P., a Texas Limited Pannership having its principal place of business in Houston. Texas, thereinafter HPDC), in furtherance of my/our obligations to the Hewlett-Packard Company and its subsidiaries and effiliates, and do hereby assign and transfer to HPDC, its successors and assigns, the entire right, tide and interest, including the right of priority, in, to and under an application for Leiters Patent of the United States entitied:

COOLING ASSEMBLY

Filing Date:

March 26, 2018

Application No.:

15/935,450

and the invention(s) and improvement(s) set forth therein, and any and all continuations, continuations-in-cart (C-i-P's), divisionals, and renewals of and substitutes for said application for said Leiters Patent, and any and all Leiters Patent of the United States and of countries foreign thereto which may be granted thereon or therefore; and any rejssues, or reexaminations, or extensions of said Letters Patent.

i/we additionally authorize HPDC to file applications in my/our name for Letters 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 Leiters 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;

ANC l/we hereby covenant that l/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 live further covenant and agree that l/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 file to said invention(s) or improvement(s), said application and said Leiters Patent, to HPDC, its successors, assigns, nominales or legal representatives, and l/we agree to communicate to HPDC, or to its nominee, all known facts respecting said invention(s) or improvement(s), said application and said Letters Patent, to testify in any legal proceedings, to sign all lawful papers, to execute all disclaimers and divisionals, continuations, C-I-P's, relasus and foreign applications, to make all righthul 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 metus in tending such cooperation and assistance are paid by HPDC:

AND live hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any country or countries foreign to the United States whose duty it is to issue patents on applications as aloresaid, to issue to HPOC, as assignee of the entire right, title and interest, any end all Letters Patent for said invention(s) or improvisionent(s), including any and all Letters Patent of the United States which may be issued and granted on or as a result of the application aforesaid, in accordance with the terms of this assignment,

live further authorize and direct the attorneys of record to insert the serial number and liling date of said application now identified by the Record ID and title set forth above as soon as the same shall have been made known to them by the United Statest Patent and Trademark Office.

incentor's Signature		Date Assignment Signed	
David Alker Moore			
inventor's Typed Name		Gain Application Signed	
\sim			
- CAAPA		9-25-12	
Inventor's Signature		Date Assignment Signed	·····
John P Franz		7-75-12	
inventor's Typed Name		Date Application Signed	
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PATENT REEL: 051174 FRAME: 0234

HEWLETT-PACKARD COMPA Intellectual Property Administre	
3404 E. Harmony Road	
Mail Stop 35 Fon Collins, Colorado 80528	
	ASSIGNMENT
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Tahir Cader Inventor's Typed Name PATENT APPLICATION

RECORD ID:

82962670

#### ASSIGNMENT OF PATENT APPLICATION (cont.)

1014 115 Date Assignment Signed

Date Application Signed

Inventor's Signature

Michael Lawrence Sebolta Inventor's Typed Name

Date Application Signed

Date Assignment Signed

Date Application Signed

Date Assignment Signed

Date Application Signed

Date Assignment Signed

Date Application Signed

**Date Assignment Signed** 

Inventor's Signature

Inventor's Typed Name

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Inventor's Signature

Date Assignment Signed

Inventor's Typed Name

Date Application Signed

Rev (911: (Assignment)

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PATENT REEL: 051174 FRAME: 0235

**RECORDED: 12/04/2019**