PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT6103203

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
GUAN-KWEE GOH	04/28/2016
MATTHEW A SHEPHERD	04/28/2016
MARK H MACKENZIE	04/28/2016

RECEIVING PARTY DATA

Name:	Hewlett-Packard Development Company, L.P.		
Street Address:	10300 Energy Drive		
City:	Spring		
State/Country:	TEXAS		
Postal Code:	77389		

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16789890

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.

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Email: ipa.mail@hp.com

Correspondent Name: HP INC.

Address Line 1: 3390 E. HARMONY ROAD MS 35 Address Line 4: FORT COLLINS, COLORADO 80528

ATTORNEY DOCKET NUMBER:	85854439
NAME OF SUBMITTER:	ANN WEBSTER JESUS
SIGNATURE:	/Ann Webster Jesus/
DATE SIGNED:	05/12/2020

Total Attachments: 3

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Fort Collins	့ င်ဝါ	orado 8	0528

C) A TELL !	APPLICATION

RECORD ID:	84457959

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 en entitled:	tire right, title and interest, including	est, including the right of priority, in, to and under an application for Patent						
SELECTIVELY	FIRING A FLUID CIRCULATION E	LEMENT						
Filing Date: _	13 February 2020	Application No.:	16/789890					
divisionals, and	renewals of and substitutes for said	application for said Patent.	nuations, continuations-in-part (C-I-P's), and any and all other Patent of any r reexaminations, or extensions of said					
by HPDC, its su Patent respective	ccessors, assigns, numinees or legal	representatives, to the full ended, as fully and entirely as	in any country, to be held and enjoyed and of the term or terms for which said s the same would have been held and					
ANTES de la lace	200 to 60							

AND I/we hereby coveriant 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,

I/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 the test new Promittee				
IN WITNESS WHERE	OF, I we hereunto set	my/our hand(s) and	d seal(s): 4/28/2016	
Inventor's Signature			Date	
Guan-Kwee	GOH			
First/Middle Name	Läst Name		me.	

nventor's Signature	96 d 98		Date	
Matthew A.	SHEPHERD			
first/Middle Name	Last Name			
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HP Inc.
3390 E. Harmony Road
Mail Stop 35
Fort Collins, Colorado 80528

Rev 8/2014 (Assignment)

DATENT ADDITION									
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Mail Stop 35		
Fort Collins, Colorado 80528	RECORD ID:	84457959

ASSIGNMENT OF PATENT APPLICATION

and in furtherance of m Limited Partnership havi subsidiaries and affiliates	ny/our obligations to HEWLETT ing its principal place of busin , agree to assign and transfer a	consideration, the receipt of which is hereby acknowledged, T-PACKARD DEVELOPMENT COMPANY, L.P., a Texas ness in Houston, Texas, (hereinafter HPDC), and to its nd hereby assign and transfer to HPDC, its successors and right of priority, in, to and under an application for Patent
SELECTIVELY FIRING	A FLUID CIRCULATION ELEM	ENT
Filing Date:		Application No.:
divisionals, and renewals	of and substitutes for said appl	and any and all continuations, continuations-in-part (C-I-P's), ication for said Patent, and any and all other Patent of any re; and any reissues, or reexaminations, or extensions of said
by HPDC, its successors, Patent respectively may be	assigns, nominees or legal repre	my/our name for Patent in any country, to be held and enjoyed esentatives, to the full end of the term or terms for which said as fully and entirely as the same would have been held and n made;
executed and will not exectime a request is made, an perfect the title to said invenominees or legal represer said invention(s) or improv papers, to execute all disrightful oaths and declaration legal representatives to obtain	ute any agreement in conflict her d without undue delay, execute a ention(s) or improvement(s), said ntatives, and I/we agree to commement(s), said application and saclaimers and divisionals, continuons, and generally to do everythinotain and enforce, for its or their all countries provided the expensi	onvey the entire interest herein assigned, and that I/we have not rewith, and I/we further covenant and agree that I/we will, each and deliver all such papers as may be necessary or desirable to application and said Patent, to HPDC, its successors, assigns, nunicate to HPDC, or to its nominee, all known facts respecting aid Patent, to testify in any legal proceedings, to sign all lawful lations, C-I-P's, reissue and foreign applications, to make all g possible to aid HPDC, its successors, assigns, nominees and own benefit, proper patent protection for said invention(s) or es which may be incurred by me/us in lending such cooperation
applications as aforesaid, t	to issue to HPDC, as assignee o ent(s) which may be issued and	any country or countries whose duty it is to issue patents on of the entire right, title and interest, any and all Patent for said d 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 recidentified by the Record ID and till	cord to insert the filing date and application number of said tle set forth above, as soon as the same shall have been made
IN WITNESS WHERE	OF, I/we hereunto set my/our h	nand(s) and seal(s):
Inventor's Signature		Date
Guan-Kwee	GOH	
First/Middle Name	Last Name	
Malake A	Sunt	2011 100 78
Inventor's Signature	ungi	2016 Apr 28
Matthew A.	SHEPHERD	
First/Middle Name	Last Name	

Page 1 of 2

HP Inc. 3390 E. Harmony Road Mail Stop 35 Fort Collins, Colorado 80528		RECORD ID:	PATENT APPLICATION 84457959
	ASSIGNMENT OF PATEN		•
Inventor's Signature		<u>A 29</u> Date	8-6
Mark H.	MAGUENETIE	Dato	
First/Middle Name	MACKENZIE 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	

Rev 8/2014 (Assignment)

First/Middle Name

First/Middle Name

Inventor's Signature

Page 2 of 2

Date

Last Name

Last Name