PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT6655445

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
CHIEN-HUA CHEN	04/12/2021
MICHAEL G. GROH	04/13/2021
BO SONG	04/12/2021
VERONICA FRANCES BURNETT KRIM	04/12/2021

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:	17230053	

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.

Phone: (541)360-4450 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: 85992512 NAME OF SUBMITTER: GARY P. OAKESON **SIGNATURE:** /Gary P. Oakeson/ **DATE SIGNED:** 04/14/2021

Total Attachments: 4

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> **PATENT** REEL: 055914 FRAME: 0106 506608639

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PATENT REEL: 055914 FRAME: 0107

RECORD	ID:	85992512	

ASSIGNMENT OF PATENT APPLICATION

I, the undersigned, for good and valuable consideration, the receipt of which is hereby acknowledged, agree to assign and transfer and hereby assign and transfer to

HEWLETT-PACKARD DEVELOPMENT COMPANY L.P, a Texas Limited Partnership, having its principal place of business in Spring, Texas, USA (hereinafter "HPDC"),

its successors, and its assigns, my entire right, title, and interest, including all rights of priority, in, to, and under an application for patent entitled (English-language title in parentheses if said application for patent is in another language):

Title: FLUID EJECTION DEVIC	ES	
Filing Date:	Application No.:	Patent Office: US
(as used herein "patent" refers to utility patent rights, design rights applications for patent of any cou without limitation, said application benefit of any application for patent for patent for any of said Invention continuation-in-part applications phase applications of, renewals of "Applications for Patent"); any and	ny and all inventions, improvements, and discover any form of intellectual property protection include, and utility model rights) (hereinafter "Inventions") intry or region or under any international agreement for patent, any and all applications for patent direct for any of said Inventions, any and all applications directly or indirectly claims priority or benefit, a (hereinafter "CIPs") of, divisional applications of, rof, and substitutes for any application for patent for all patents which may be granted on or as a resum all reissues, reexaminations, and extensions of	ling, without limitation, invention rights, any and all existing and future ent for any of said Inventions (including, ectly or indirectly claiming priority to or ions for patent from which any application and any and all continuation applications of, national-phase applications of, regional-or any of said Inventions) (hereinafter sult of said Applications for Patent
I HEREBY represent that I cor entire right, title, and interest her agreement in conflict herewith;	ivey my full rights in all countries and regions and ein assigned and transferred, and that I have not o	under all international agreements to the executed and will not execute any
Applications for Patent in its nam authorize HPDC, its successors,	OC, its successors, its assigns, its nominees, and e or in my name in any country or region or under its assigns, its nominees, and its legal representa application for patent, now identified by the Reco	r any international agreement, and further after any international agreement, application
whose duty it is to issue patents,	request the officials of all countries and regions a to issue to HPDC, its successors, or its assigns, a nce with the terms of this assignment and transfer	as assignee of my entire right, title, and
all such papers as may be neces to HPDC, its successors, or its as representatives, all known facts radministrative proceedings and sapplications, CIPs, and reissue a rightful oaths and declarations arand its legal representatives to of for said Inventions, Applications f	agree that I will, each time a request is made, and sary or desirable to perfect the title in said Inventional signs; communicate to HPDC, its successors, its especting said Inventions, Applications for Patenting all lawful papers (including, without limitation, applications) relating to said Inventions; Application digenerally to do everything possible to aid HPDC otain, maintain, and enforce, for its or their own befor Patent, and Patents, provided the expenses whald by HPDC, its successors, its assigns, its nominal contents.	ons, Applications for Patent, and Patents, assigns, its nominees, or its legal, and Patents; testify in any legal or divisional applications, continuation as for Patent, and Patents; and make all C, its successors, its assigns, its nominees, enefit, proper intellectual property protection nich may be incurred by me in lending such
IN WITNESS WHEREOF, I he	reunto set my hand and seal:	
Inventor's Signature	I want	DH 202) onth Year
Chien-Hua Chen		
Inventor's Legal Name		PATENT REEL: 055914 FRAME: 0108

Inventor's Legal Name

RECORD ID:_	85992512
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HEWLETT-PACKARD DEVELOPMENT COMPANY L.P., a Texas Limited Partnership, having its principal place of business in Spring, Texas, USA (hereinafter "HPDC").

Title: FLUID EJECTION DEVICE	s		
Filing Date:	Application No.:	***************************************	Patent Office: US
(as used herein "patent" refers to a utility patent rights, design rights, a applications for patent of any coun without limitation, said application penefit of any application for paten for patent for any of said Invention continuation-in-part applications (he phase applications of, renewals of "Applications for Patent"); any and	r and all inventions, improvements, and all inventions, improvements, and any form of intellectual property protection utility model rights) (hereinafter "Inverty or region or under any internations for patent, any and all applications for patent, any and all applications, any and all so directly or indirectly claims priority or ereinafter "CIPs") of, divisional application and substitutes for any application for all patents which may be granted on ord all reissues, reexaminations, and extractions.	on including, withous including, withous including any and agreement for any attent directly or in applications for pubenefit, and any a ions of, national-patent for any of a as a result of sain	out limitation, invention rights, d all existing and future y of said Inventions (including, ndirectly claiming priority to or atent from which any application and all continuation applications of phase applications of, regional- said Inventions) (hereinafter d Applications for Patent
I HEREBY represent that I conventire right, title, and interest herei agreement in conflict herewith;	ey my full rights in all countries and reg n assigned and transferred, and that I h	ions and under all ave not executed	I international agreements to the and will not execute any
Applications for Patent in its name authorize HPDC, its successors, it	c), its successors, its assigns, its nomin or in my name in any country or region is assigns, its nominees, and its legal re pplication for patent, now identified by	or under any inte	mational agreement, and further nsert the filing date, application
whose duty it is to issue patents, to	equest the officials of all countries and a issue to HPDC, its successors, or its a ce with the terms of this assignment an	assigns, as assign	r all international agreements see of my entire right, title, and
all such papers as may be necession HPDC, its successors, or its asseption HPDC, its successors, or its asseption and facts readministrative proceedings and signapplications, CIPs, and reissue applications, and declarations and and its legal representatives to obter said Inventions, Applications for	gree that I will, each time a request is rary or desirable to perfect the title in sa igns; communicate to HPDC, its succespecting said Inventions, Applications for all lawful papers (including, without libications) relating to said Inventions, A generally to do everything possible to ain, maintain, and enforce, for its or the Patent, and Patents, provided the expid by HPDC, its successors, its assigns	id Inventions, App ssors, its assigns, or Patent, and Pat mitation, divisiona pplications for Pat aid HPDC, its suc irr own benefit, pro- tenses which may	lications for Patent, and Patents, its nominees, or its legal tents; testify in any legal or applications, continuation tent, and Patents; and make all cessors, its assigns, its nominees, oper intellectual property protection be incurred by me in lending such
IN WITNESS WHEREOF, I here	<u> </u>	3 4 ay Month	202 <u> </u> Year
Michael G. Groh			

REEL: 055914 FRAME: 0109

PATENT

Inventor's Legal Name

ASSIGNMENT OF PATENT APPLICATION

I, the undersigned, for good and valuable consideration, the receipt of which is hereby acknowledged, agree to assign and transfer and hereby assign and transfer to

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Filing Date:	Application No.:	Patent Office: US
(as used herein "patent" refers to attility patent rights, design rights, applications for patent of any counthwithout limitation, said application benefit of any application for pate for patent for any of said Invention continuation-in-part applications (chase applications of, renewals of Applications for Patent"); any and	ny and all inventions, improvements, and discoveries any form of intellectual property protection including and utility model rights) (hereinafter "Inventions"); antry or region or under any international agreement of for patent, any and all applications for patent directly for any of said Inventions, any and all applications directly or indirectly claims priority or benefit, and hereinafter "CIPs") of, divisional applications of, nate, and substitutes for any application for patent for a dill patents which may be granted on or as a result and all reissues, reexaminations, and extensions of	ng, without limitation, invention rights, any and all existing and future to for any of said Inventions (including, ctly or indirectly claiming priority to or ms for patent from which any application do any and all continuation applications of, itional-phase applications of, regional-any of said Inventions) (hereinafter lt of said Applications for Patent
	vey my full rights in all countries and regions and u in assigned and transferred, and that I have not ex	
Applications for Patent in its name authorize HPDC, its successors,	OC, its successors, its assigns, its nominees, and its e or in my name in any country or region or under a its assigns, its nominees, and its legal representative application for patent, now identified by the Record	any international agreement, and further ves to insert the filing date, application
whose duty it is to issue patents,	request the officials of all countries and regions and to issue to HPDC, its successors, or its assigns, as noe with the terms of this assignment and transfer;	s assignee of my entire right, title, and
all such papers as may be necess o HPDC, its successors, or its as representatives, all known facts re administrative proceedings and s applications, CIPs, and reissue a rightful oaths and declarations an and its legal representatives to ob or said Inventions, Applications for	agree that I will, each time a request is made, and sary or desirable to perfect the title in said Invention signs; communicate to HPDC, its successors, its a especting said Inventions, Applications for Patent, a ign all lawful papers (including, without limitation, dipplications) relating to said Inventions, Applications digenerally to do everything possible to aid HPDC, otain, maintain, and enforce, for its or their own benor Patent, and Patents, provided the expenses while aid by HPDC, its successors, its assigns, its nominications.	ns, Applications for Patent, and Patents, assigns, its nominees, or its legal and Patents; testify in any legal or ivisional applications, continuation for Patent, and Patents; and make all its successors, its assigns, its nominees, nefit, proper intellectual property protection ch may be incurred by me in lending such
IN WITNESS WHEREOF, I he	reunto set my hand and seal:	
Bo Song	12 Ap	oril 2021
Inventor's Signature	Day Mon	nth Year

PATENT REEL: 055914 FRAME: 0110

RECORD	ID:	85992512

ASSIGNMENT OF PATENT APPLICATION

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	my full rights in all countries and region assigned and transferred, and that I have			
Applications for Patent in its name or authorize HPDC, its successors, its a	its successors, its assigns, its nominees in my name in any country or region or assigns, its nominees, and its legal repre plication for patent, now identified by the	under any i esentatives t	nternational agree to insert the filing o	ment, and further late, application
vhose duty it is to issue patents, to is	uest the officials of all countries and reg ssue to HPDC, its successors, or its ass with the terms of this assignment and tr	igns, as ass		
all such papers as may be necessary of HPDC, its successors, or its assigneresentatives, all known facts respectaministrative proceedings and signapplications, CIPs, and reissue applicity of the analysis of the latest and declarations and gend its legal representatives to obtain for said Inventions, Applications for F	ee that I will, each time a request is made or or desirable to perfect the title in said lines; communicate to HPDC, its successor ecting said Inventions, Applications for Fall lawful papers (including, without limit cations) relating to said Inventions, Applenerally to do everything possible to aid n, maintain, and enforce, for its or their coatent, and Patents, provided the expensiby HPDC, its successors, its assigns, its	nventions, A ors, its assig Patent, and ation, division ications for HPDC, its sown benefit, ses which m	Applications for Patins, its nominees, or Patents; testify in a ponal applications, or Patent, and Patent auccessors, its assisted proper intellectual pay be incurred by	ent, and Patents, or its legal any legal or continuation as; and make all igns, its nominees, property protection me in lending such
IN WITNESS WHEREOF, I hereur	nto set my hand and seal:			
Vak-	12	April	2021	

Rev 8/2020