506701758 06/07/2021

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 EPAS ID: PAT6748577 Stylesheet Version v1.2

 SUBMISSION TYPE:
 NEW ASSIGNMENT

 NATURE OF CONVEYANCE:
 ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
MICHAEL W. CUMBIE	04/29/2019
ANTHONY M. FULLER	04/29/2019
CHIEN-HUA CHEN	04/29/2019

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:	17311593			

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: 86017034

NAME OF SUBMITTER: CARRIE A. MILANO

SIGNATURE: /Carrie A. Milano/

DATE SIGNED: 06/07/2021

Total Attachments: 3

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PATENT 506701758 REEL: 056457 FRAME: 0955

HP Inc. 3390 E. Harmony Road Mail Stop 35 Fort Collins, Colorado 80528

RECORD ID:	85685142
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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, (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):

FLUID EJEC	TION DEVICE WITH BRI	EAK(S) IN COVER LAYER		
Filing Date:	29 Apr 2019	Application No.:	PCT/US2019/029620	Patent Office: US
nerein "patent' design rights, country or reg patent, any an said Invention indirectly claim of, divisional application for or as a res	" refers to any form of intelle and utility model rights) (I ion or under any internation ad all applications for patent is, any and all applications as priority or benefit, and ar applications of, national-phate patent for any of said Inve	ectual property protection incluing hereinafter "Inventions"); any nal agreement for any of said at directly or indirectly claiming for patent from which any any and all continuation applicates ase applications of, regional-pentions) (hereinafter "Applicatic Patent (hereinafter "Patents");	discoveries, set forth in said appuding, without limitation, inventior and all existing and future appulations (including, without limpriority to or benefit of any application for patent for any of tions of, continuation-in-part appulations of, renewals ons for Patent"); any and all paters and any and all reissues, reexa	n rights, utility patent rights dications for patent of any nitation, said application for ication for patent for any or said Inventions directly of dications (hereinafter CIPs) of, and substitutes for any ents which may be granted.

I HEREBY represent that I convey my full rights in all countries and regions and under all international agreements to the entire right, title, and interest herein assigned and transferred, and that I have not executed and will not execute any agreement in conflict herewith:

AND I HEREBY authorize HPDC, its successors, its assigns, its nominees, and its legal representatives to file said Applications for Patent in its name or in my name in any country or region or under any international agreement, and further authorize HPDC, its successors, its assigns, its nominees, and its legal representatives to insert the filing date, application number, and patent office of said application for patent, now identified by the Record ID and title set forth above, when known to them:

AND I HEREBY authorize and request the officials of all countries and regions and under all international agreements whose duty it is to issue patents, to issue to HPDC, its successors, or its assigns, as assignee of my entire right, title, and interest, said Patents, in accordance with the terms of this assignment and transfer:

AND I HEREBY covenant and agree that I 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 in said Inventions, Applications for Patent, and Patents, to HPDC, its successors, or its assigns; communicate to HPDC, its successors, its assigns, its nominees, or its legal representatives, all known facts respecting said Inventions, Applications for Patent, and Patents; testify in any legal or administrative proceedings and sign all lawful papers (including, without limitation, divisional applications, continuation applications, CIPs, and reissue applications) relating to said Inventions, Applications for Patent, and Patents; and make all rightful oaths and declarations and generally to do everything possible to aid HPDC, its successors, its assigns, its nominees, and its legal representatives to obtain, maintain, and enforce, for its or their own benefit, proper intellectual property protection for said Inventions, Applications for Patent, and Patents, provided the expenses which may be incurred by me in lending such cooperation and assistance are paid by HPDC, its successors, its assigns, its nominees, or its legal representatives.

IN WITNESS WHEREOF, I hereunto set r	y hand and seal:		
Michael W Cuntie	29	April	19
Inventor's Signature	Day	Month	Year
Michael W. Cumbie			
Given (First and Middle) Name(s) Family Name	ne		

HP Inc. 3390 E. Harmony Road Mail Stop 35 Fort Collins, Colorado 80528

RECORD	ID:	85685142

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, (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):

FLUID EJECT	ION DEVICE WITH BREAL	K(S) IN COVER LAYER			
Filing Date:	29 Apr 2019	Application No.:	PCT/U	S2019/029620	Patent Office: US
herein "patent" r design rights, a country or region patent, any and said Inventions, indirectly claims of, divisional ap application for p on or as a resul	er, including any and all inve- efers to any form of intellectu- nd utility model rights) (here n or under any international - all applications for patent dir any and all applications for priority or benefit, and any a plications of, national-phase atent for any of said Inventicat tof said Applications for Pat- ons for Patent or said Patents	ual property protection incleinafter "Inventions"); any agreement for any of said rectly or indirectly claiming reparent from which any and all continuation applications of, regionalons) (hereinafter "Applicationt (hereinafter "Patents")	uding, withor and all exi Inventions (priority to capplication f tions of, cor phase applications for Pate	ut limitation, invention sting and future appl (including, without limiter benefit of any applicor patent for any of stinuation-in-part applications of, renewals cent"); any and all pate	rights, utility patent rights ications for patent of an itation, said application for cation for patent for any cosaid Inventions directly coications (hereinafter CIPs of, and substitutes for any the granter of the cations which may be granter or any the granter of the cations which may be granter or any the cations.
I HEREBY entire right, title, conflict herewith	represent that I convey my and interest herein assigned;	full rights in all countries d and transferred, and that	and regions I have not e	and under all internates executed and will not	ational agreements to the execute any agreement in
Applications for authorize HPDC	REBY authorize HPDC, its Patent in its name or in my c, its successors, its assign tent office of said application	y name in any country or is, its nominees, and its	region or u	under any internationa sentatives to insert th	al agreement, and furthe
duty it is to issue	EBY authorize and request to patents, to issue to HPDC, rdance with the terms of this	, its successors, or its ass	and regions igns, as ass	s and under all internations and under all internations and internations a	ational agreements whose ht, title, and interest, said
such papers as HPDC, its succe all known facts r and sign all lav applications) religenerally to do emaintain, and en and Patents, pro	EBY covenant and agree that may be necessary or desiressors, or its assigns; communespecting said Inventions, Aportion to said Inventions, for its or their own berevioled the expenses which may assigns, its nominees, or it	rable to perfect the title in inicate to HPDC, its succe applications for Patent, and out limitation, divisional a plications for Patent, and PDC, its successors, its as aefit, proper intellectual pro- nay be incurred by me in le	a said Inventissors, its as displayed Patents; te applications, Patents; an signs, its no aperty protect	tions, Applications fo signs, its nominees, o estify in any legal or a continuation applica d make all rightful oa minees, and its legal ction for said Invention	r Patent, and Patents, to r its legal representatives dministrative proceedings tions, CIPs, and reissue ths and declarations and representatives to obtain s. Applications for Patent
in witnes	SS WHEREOF, I hereunto se	t my hand and seal:	29	Asil	2019
Inventor's Signa	ture		Day	Month	Year

Rev 8/2018 (HPDC Assignment)

Anthony M. Fuller

Given (First and Middle) Name(s)

Family Name

			P			

RECORD ID:	85685142

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, (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):
FLUID EJECTION DEVICE WITH BREAK(S) IN COVER LAYER
Filing Date: 29 Apr 2019 Application No.: PCT/US2019/029620 Patent Office: US
the subject matter, including any and all inventions, improvements, and discoveries, set forth in said application for patent (as user herein "patent" refers to any form of intellectual property protection including, without limitation, invention rights, utility patent rights design rights, and utility model rights) (hereinafter "Inventions"); any and all existing and future applications for patent of an country or region or under any international agreement for any of said Inventions (including, without limitation, said application for patent, any and all applications for patent directly or indirectly claiming priority to or benefit of any application for patent for any of said Inventions, any and all applications for patent from which any application for patent for any of said Inventions directly of indirectly claims priority or benefit, and any and all continuation applications of, continuation-in-part applications (hereinafter CIPs of, divisional applications of, national-phase applications of, regional-phase applications of, renewals of, and substitutes for an application for patent for any of said Inventions) (hereinafter "Applications for Patent"); any and all patents which may be granted on or as a result of said Applications for Patent (hereinafter "Patents"); and any and all reissues, reexaminations, and extension of said Applications for Patent or said Patents.
I HEREBY represent that I convey my full rights in all countries and regions and under all international agreements to the entire right, title, and interest herein assigned and transferred, and that I have not executed and will not execute any agreement in conflict herewith;
AND I HEREBY authorize HPDC, its successors, its assigns, its nominees, and its legal representatives to file said Applications for Patent in its name or in my name in any country or region or under any international agreement, and further authorize HPDC, its successors, its assigns, its nominees, and its legal representatives to insert the filing date, application number, and patent office of said application for patent, now identified by the Record ID and title set forth above, when known to them;
AND I HEREBY authorize and request the officials of all countries and regions and under all international agreements whose duty it is to issue patents, to issue to HPDC, its successors, or its assigns, as assignee of my entire right, title, and interest, said Patents, in accordance with the terms of this assignment and transfer;
AND I HEREBY covenant and agree that I will, each time a request is made, and without undue delay, execute and deliver a such papers as may be necessary or desirable to perfect the title in said inventions, Applications for Patent, and Patents, to HPDC, its successors, or its assigns; communicate to HPDC, its successors, its assigns, its nominees, or its legal representatives all known facts respecting said inventions, Applications for Patent, and Patents; testify in any legal or administrative proceedings.

and sign all lawful papers (including, without limitation, divisional applications, continuation applications, CIPs, and reissue applications) relating to said inventions, Applications for Patent, and Patents; and make all rightful oaths and declarations and generally to do everything possible to aid HPDC, its successors, its assigns, its nominees, and its legal representatives to obtain, maintain, and enforce, for its or their own benefit, proper intellectual property protection for said Inventions, Applications for Patent, and Patents, provided the expenses which may be incurred by me in lending such cooperation and assistance are paid by HPDC. its successors, its assigns, its nominees, or its legal representatives.

IN WITNESS WHEREOF, I hereunto set my hand and seal:

Inventor's Signature	<u>29</u> Day	April Month	2019 Year
Chien-Hua Chen Given (First and Middle) Name(s) Family Name			

Rev 8/2018 (HPDC Assignment)

PATENT REEL: 056457 FRAME: 0958

RECORDED: 06/07/2021