PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
ALFONSO CAMENO SALINAS	08/14/2018
DANIEL GONZALEZ PERELLO	08/27/2018
JOSE ANTONIO LOPEZ ABANCENS	08/27/2018
RAFAEL ULACIA PORTOLES	08/13/2018

RECEIVING PARTY DATA

Name:	Hewlett-Packard Development Company, L.P.
Street Address:	11445 Compaq Center Drive West
City:	Houston
State/Country:	TEXAS
Postal Code:	77070

PROPERTY NUMBERS Total: 1

Property Type	Number	
Application Number:	15521553	

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.

(541)715-8443 Phone: Email: ipa.mail@hp.com

Correspondent Name: HP INC.

Address Line 1: 3390 E. HARMONY ROAD MS 35 INTELLECTUAL PROPERTY Address Line 2:

Address Line 4: FORT COLLINS, COLORADO 80528

ATTORNEY DOCKET NUMBER:	84621475
NAME OF SUBMITTER:	JESSICA MANIA
SIGNATURE:	/Jessica Mania/
DATE SIGNED:	08/29/2018

Total Attachments: 4

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RECORD ID:	84114863

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 Houston, 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): PRINTING FLUID DELIVERY SYSTEM FOR PRINTERS Patent Office: USPTO Application No.: PCT/US2015/013827 Filing Date: January 30, 2015 the subject matter, including any and all inventions, improvements, and discoveries, set forth in said application for patent (as used 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 any 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 said Inventions directly or 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 any 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 extensions 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 and application number 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 bereunto set my hand and seal: Inventor's Signature Alfonso Cameno Salinas

Family Name

Given (First and Middle) Name(s)

RECORD ID:	84114863	

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-P Texas Limited Partnership having its principal place of business successors, and its assigns, my entire right, title, and interest, incli application for patent entitled (English-language title in parentheses if s	in Houst uding al∣ r	on, Texas, (hereina ights of priority, in.	fter "HPDC"), its
PRINTING FLUID DELIVERY SYSTEM FOR PRINTERS			
Filing Date: January 30, 2015 Application No.: PCT/US2015/0	13827	Patent Office	USPTO
the subject matter, including any and all inventions, improvements, and disused herein "patent" refers to any form of intellectual property protection patent rights, design rights, and utility model rights) (hereinafter "Invention patent of any country or region or under any international agreement for said application for patent, any and all applications for patent directly or indicor patent for any of said Inventions, any and all applications for patent from directly or indirectly claims priority or benefit, and any and all continuate hereinafter CIPs) of, divisional applications of, national-phase applications substitutes for any application for patent for any of said Inventions) (herein which may be granted on or as a result of said Applications for Patent or said Patent examinations, and extensions of said Applications for Patent or said Patent	including, as"); any a any of said rectly claim which any on applicat of, regiona nafter "App (hereinaft)	without limitation, inv nd all existing and fut if Inventions (including in appriority to or benef y application for patent itions of, continuations al-phase applications of likations for Patent's:	ention rights, utility ure applications for it, without limitation, it of any application if for said Inventions in-part applications of, renewals of, and any and all patents
I HEREBY represent that I convey my full rights in all countries and re entire right, title, and interest herein assigned and transferred, and that I had n conflict herewith;	gions and ve not exec	under all international cuted and will not exec	agreements to the tute any agreement
AND I HEREBY authorize HPDC, its successors, its assigns, its napplications for Patent in its name or in my name in any country or region authorize HPDC, its successors, its assigns, its nominees, and its legal replayment of said application for patent, now identified by the Record ID and its legal region.	n or under presentative	any international agre es to insert the filing d	ement, and further ate and application
AND I HEREBY authorize and request the officials of all countries a whose duty it is to issue patents, to issue to HPDC, its successors, or its interest, said Patents, in accordance with the terms of this assignment and	assigns,	and under all interna as assignee of my en	ational agreements tire right, title, and
AND I HEREBY covenant and agree that I wilf, each time a request is rill such papers as may be necessary or desirable to perfect the title in said HPDC, its successors, or its assigns; communicate to HPDC, its suppresentatives, all known facts respecting said Inventions, Applications idministrative proceedings and sign all lawful papers (including, without polications, CIPs, and reissue applications) relating to said Inventions, A ightful oaths and declarations and generally to do everything possible to a und its legal representatives to obtain, maintain, and enforce, for its or their or said Inventions, Applications for Patent, and Patents, provided the expensions and assistance are paid by HPDC, its successors, its assigns,	Inventions coessors, s for Pater out limitation id HPDC, if own benears which	a, Applications for Pate its assigns, its nominal, and Patents; testion, divisional applica is for Patent, and Pate its successors, its ass fit, proper intellectual; in may be incurred by its application.	ent, and Patents, to nees, or its legal fy in any legal or tions, continuation ents; and make all igns, its nominees, property protection me in lending such
IN WITNESS WHEREOF, I hereunto set my hand and seal:	27	Aunol	2018
puentor's Signature	Day	Month	Year
Daniel Gonzalez Perello			
Given (First and Middle) Name(s) Family Name			

RECORD ID:	84114863
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ASSIGNMENT OF PATENT APPLICATION

I, the undersigned, for good and valuable consideration, the assign and transfer and hereby assign and transfer to HEWLET.			
Texas Limited Partnership having its principal place of busine			
successors, and its assigns, my entire right, title, and interest, it			
application for patent entitled (English-language title in parentheses	if said applic	ation for patent is in a	another language):
PRINTING FLUID DELIVERY SYSTEM FOR PRINTERS			
	**********		***************************************
POTATOON	4E (04 0002		HERTO
Filing Date: January 30, 2015 Application No.: PCT/US20	1910 19051	Patent Office	*:
the subject matter, including any and all inventions, improvements, and	discoveries.	set forth in said appl	cation for patent (as
used herein "patent" refers to any form of intellectual property protect patent rights, design rights, and utility model rights) (hereinafter "Inver	aon meruang: alions*): anv s	, without limitation, in the activity and fo	vention rights, utility iture annihilations fo
patent of any country or region or under any international agreement	for any of sai	d Inventions (includir	a, without limitation
said application for patent, any and all applications for patent directly or	indirectly clair	ning priority to or bene	efit of any application
for patent for any of said Inventions, any and all applications for patent t			
directly or indirectly claims priority or benefit, and any and all continu (hereinafter CIPs) of, divisional applications of, national-phase applications.			
substitutes for any application for patent for any of said inventions) (he	ereinafter "An	arphase applications dications for Patent")	or, renewals or, and
which may be granted on or as a result of said Applications for Pal			
reexaminations, and extensions of said Applications for Patent or said I	Patents,		
I HEREBY represent that I convey my full rights in all countries an	d regions and	l under all internation	al agreements to the
entire right, title, and interest herein assigned and transferred, and that	i have not exe	cuted and will not exe	cute any agreemen
in conflict herewith;			
AND I HEREBY authorize HPDC, its successors, its assigns, it	eagrimon a	and ite land range	entatives to file enic
Applications for Patent in its name or in my name in any country or re	gion or under	any international ag	reement, and further
authorize HPDC, its successors, its assigns, its nominees, and its legal	I representation	es to insert the filing	date and application
number of said application for patent, now identified by the Record ID a	ind title set for	rth above, when know	in to them;
AND I HEREBY authorize and request the officials of all countrie	es and region	s and under all inter	national agreements
whose duty it is to issue patents, to issue to HPDC, its successors, of	or its assigns,		
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	t is made, and	l without undue delay	execute and delive
all such papers as may be necessary or desirable to perfect the title in			
HPDC, its successors, or its assigns; communicate to HPDC, its			
representatives, all known facts respecting said Inventions, Applica			
administrative proceedings and sign all lawful papers (including, v applications, CIPs, and reissue applications) relating to said Invention			
rightful oaths and declarations and generally to do everything possible			
and its legal representatives to obtain, maintain, and enforce, for its or			
for said Inventions, Applications for Patent, and Patents, provided the cooperation and assistance are paid by HPDC, its successors, its assignment of the cooperation and cooperation and cooperation and cooperation and cooperation and cooperation are cooperation.			
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IN WITNESS WHEREOF, I hereunto set my hand and seal:			
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	al year	AUGUST	~{018
Inventor's Signature	Day	Month	Year
Jose Antonio Lopez Abancens			
Chian (First and Middle) Name(s) Family Name			

RECORD ID:	84114863	

ASSIGNMENT OF PATENT APPLICATION

I, the undersigned, for good and valuable consideration, the reconsistent and transfer and hereby assign and transfer to HEWLETT-P Texas Limited Partnership having its principal place of business successors, and its assigns, my entire right, title, and interest, including application for patent entitled (English-language title in parentheses if second contents are considered.)	ACKARD in Houst uding all i	DEVELOPMENT CON on, Texas, (hereinafter lights of priority, in, to	MPANY, L.P., a er "HPDC"), its , and under an
PRINTING FLUID DELIVERY SYSTEM FOR PRINTERS			
Filing Date: January 30, 2015 Application No.:PCT/US2015/0	13827	Patent Office:	USPTO ;
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I HEREBY represent that I convey my full rights in all countries and reentire right, title, and interest herein assigned and transferred, and that I had in conflict herewith;	egions and ve not exe	under all international a cuted and will not execu	igreements to the te any agreement
AND I HEREBY authorize HPDC, its successors, its assigns, its napplications for Patent in its name or in my name in any country or region authorize HPDC, its successors, its assigns, its nominees, and its legal renumber of said application for patent, now identified by the Record ID and	n or under presentativ	any international agree es to insert the filing date	ment, and further te and application
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AND I HEREBY covenant and agree that I will, each time a request is all such papers as may be necessary or desirable to perfect the title in said HPDC, its successors, or its assigns; communicate to HPDC, its surepresentatives, all known facts respecting said Inventions, Application administrative proceedings and sign all lawful papers (including, with applications, CIPs, and reissue applications) relating to said Inventions, rightful caths and declarations and generally to do everything possible to and its legal representatives to obtain, maintain, and enforce, for its or their for said Inventions, Applications for Patent, and Patents, provided the expection and assistance are paid by HPDC, its successors, its assigns,	I Invention accessors, as for Pate out limitation Application aid HPDC, rown bencenses whice	s, Applications for Pater its assigns, its nomin int, and Patents; testify on, divisional applications for Patent, and Patent its successors, its assignit, proper intellectual path may be incurred by mending the proper intellectual path may be incurred by mending its successors.	nt, and Patents, to ees, or its lega in any legal or ons, continuation nts; and make al ins, its nominees roperty protection e in lending such
IN WITNESS WHEREOF, I hereunto set my hand and seal:	13	1	
Inventor's Streetuje	Day	AUGUST Month	2018 Year
Rafael Ulacia Portoles	·		
Given (First and Middle) Name(s) Family Name			