PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
RAFAEL ANTONIO BALLAGAS	04/10/2019
HIROSHI HORII	04/11/2019
MITHRA VANKIPURAM	04/10/2019

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:	17414973

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.

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 35Address Line 4:FORT COLLINS, COLORADO 80528

ATTORNEY DOCKET NUMBER:	86022033
NAME OF SUBMITTER:	TRACY J. KIMMEL
SIGNATURE:	/Tracy J. Kimmel/
DATE SIGNED:	06/17/2021

Total Attachments: 3

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PATENT 506719839 REEL: 056570 FRAME: 0047

	PATENT APPLICATION

RECORD ID:___

85699083

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

ASSIGNMENT OF PATENT APPLICATION

I, the undersigned, for good and valuable consideration, the retransfer and hereby assign and transfer to HEWLETT-PACKARD D having its principal place of business in Spring, Texas, (hereinafter and interest, including all rights of priority, in, to, and under an application for patent is in another language):	EVELOPMEN "HPDC"), its :	IT COMPANY, L.P., a successors, and its ass	Texas Limited Partnershi signs, my entire right, title	ip e,
BIOMETRICS FOR PREDICTIVE EXECUTION				
Filing Date: 12 Apr 2019 Application No.	PCT/	US2019/027251	_Patent Office: US	_;
the subject matter, including any and all inventions, improvements, a herein "patent" refers to any form of intellectual property protection in design rights, and utility model rights) (hereinafter "Inventions"); a country or region or under any international agreement for any of spatent, any and all applications for patent directly or indirectly claims said Inventions, any and all applications for patent from which an indirectly claims priority or benefit, and any and all continuation apport, divisional applications of, national-phase applications of, region application for patent for any of said Inventions) (hereinafter "Applic on or as a result of said Applications for Patent (hereinafter "Patent of said Applications for Patents.	ncluding, with any and all examples ing priority to by application dications of, or al-phase applications for Paragrams	out limitation, invention kisting and future appli (including, without limi or benefit of any applic for patent for any of pontinuation-in-part applications of, renewals of tent"); any and all pate	rights, utility patent rights ications for patent of an itation, said application for cation for patent for any of said Inventions directly of ications (hereinafter CIPs of, and substitutes for an ints which may be grante) 0 0 1)
I HEREBY represent that I convey my full rights in all countri entire right, title, and interest herein assigned and transferred, and t conflict herewith;	es and regior hat I have not	ns and under all internations and under all internations and will not	ational agreements to the execute any agreement in	ir
AND I HEREBY authorize HPDC, its successors, its assig Applications for Patent in its name or in my name in any country authorize HPDC, its successors, its assigns, its nominees, and number, and patent office of said application for patent, now identify them;	or region or its legal repre	under any internationa esentatives to insert the	al agreement, and furthe he filing date, applicatio	ei on
AND I HEREBY authorize and request the officials of all countributy it is to issue patents, to issue to HPDC, its successors, or its a Patents, in accordance with the terms of this assignment and transfer	assigns, as as			
AND I HEREBY covenant and lagree that I will, each time a req such papers as may be necessary or desirable to perfect the title HPDC, its successors, or its assigns; communicate to HPDC, its suc all known facts respecting said Inventions, Applications for Patent, and sign all lawful papers (including, without limitation, divisions applications) relating to said Inventions, Applications for Patent, ar generally to do everything possible to aid HPDC, its successors, its maintain, and enforce, for its or their own benefit, proper intellectual and Patents, provided the expenses which may be incurred by me in its successors, its assigns, its nominees, or its legal representatives.	e in said Invectors, its a and Patents; al applications and Patents; a assigns, its in property prote a lending such	entions, Applications for ssigns, its nominees, or testify in any legal or a s, continuation applica and make all rightful or ominees, and its legal ection for said Invention	r Patent, and Patents, to it its legal representatives administrative proceeding ations, CIPs, and reissu- aths and declarations and representatives to obtain as, Applications for Paten	to s, gs nd n, it,
IN WITNESS WHEREOF, I hereunto set my hand and seal:				
Alo Colle	10	4	7019	
Inventor's Signature	Day	Month	Year	
Rafael Antonio Ballagas	_			
Given (First and Middle) Name(s) Family Name				

Rev 8/2018 (HPDC Assignment)

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ASSIGNMENT OF PATENT APPLICATION

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transfer and here having its princip and interest, incl	by assign and trans	d valuable consideration sfer to HEWLETT-PACK s in Spring, Texas, (here lority, in, to, and under a ther language):	AKU UEVE	DON ils suo	cessors, and its ass	signs, my el	ntire right, title,
BIOMETRICS	FOR PREDICTIVE	EXECUTION			u e i		기가 되었다. 그 사용을 당하고 있는 사용되었다.
Filing Date:	12 Apr 2019		ion No.: _	PCT/US	32019/027251	Patent (Office: <u>US</u> ;
herein "patent" re design rights, ar country or region patent, any and said inventions, indirectly claims of, divisional app application for pro- on or as a result of said Application	efers to any form of nd utility model right or under any inter- all applications for p any and all applica- priority or benefit, a plications of, nation atent for any of said tof said Application ons for Patent or said		tection incluions"), any any of said thy claiming which any a fion applicate, regional-per "Applicater "Patents"),	ding, without and all exist inventions (ir priority to or pplication of continues of continues for Pater and any and	inniation, invertional inition and future application, without lin benefit of any application for any optimulation-in-part applications of, renewals it'); any and all pate did all reissues, reexa	lications for sitation, said cation for p said Inventilications (h- of, and sub- ents which similinations,	r patent of any d application for satent for any of tions directly or ereinafter CIPs) ostitutes for any may be granted and extensions
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Applications for	Patent in its name	PDC, its successors, i or in my name in any its assigns, its nomined oplication for patent, no	country or s and its	region or U legal repres	nder any internation entatives to insert	nai agreem the filing o	ient, and lutiner date, application
duty it is to issue	e patents, to issue	request the officials of to HPDC, its successor as of this assignment an	s, or its ass	and regions igns, as ass	and under all inter ignee of my entire i	national ag ight, tille, a	reements whose and interest, said
 such papers as HPDC, its succe all known facts r and sign all lav applications) reli- generally to do e maintain, and en and Patents, pro	may be necessary ssors, or its assignment of the said Invention of the said Inventional to said Inventional Technologies and said Inventional Technologies Invent	agree that I will, each tir or desirable to perfects; communicate to HPD entions, Applications for ing, without limitation, itons, Applications for to aid HPDC, its succer own benefit, proper into which may be incurred to eas, or its legal representations or its legal representations.	It the title in C, its succes Patent, an divisional Patent, and ssors, its artellectual price by me in I	n said Inven ssors, its as: d Patents; te applications, Patents; an ssigns, its no operty protec	tions, Applications signs, its nominees estify in any legal or continuation appli d make all rightful minees, and its leg tion for said invent	for Patent, or its legal administra- cations, Co oaths and al represer ions, Applic	and Patents, to I representatives, ative proceedings IPs, and reissue declarations and ntatives to obtain, cations for Patent.
IN WITNES	SS WHEREOF, I he	reunto set my hand and	i seal:			1	
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Inventor's Signal	ture /			Day	Month	Y	ear
Hiroshi Horii							
Given (First and N	Middle) Name(s)	Family Name					

Rev 8/2018 (HFDC Assignment)

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RECORD ID:	85699083
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ASSIGNMENT OF PATENT APPLICATION

I, the undersigned, for good and valuable or transfer and hereby assign and transfer to HEWI having its principal place of business in Spring, and interest, including all rights of priority, in, to, if said application for patent is in another language	LETT-PACKARD DEV Texas, (hereinafter "H and under an applicat	ELOPMEN PDC"), its	NT COMPANY, L.P., a successors, and its as	Texas Limited Partnership
BIOMETRICS FOR PREDICTIVE EXECUTION	N			
Filing Date: 12 Apr 2019	Application No.:	PCT/U	JS2019/027251	Patent Office: US
the subject matter, including any and all invention herein "patent" refers to any form of intellectual processing rights, and utility model rights) (hereinal country or region or under any international agrepatent, any and all applications for patent directly said Inventions, any and all applications for patindirectly claims priority or benefit, and any and a of, divisional applications of, national-phase application for patent for any of said Inventions) on or as a result of said Applications for Patent of said Applications.	roperty protection incl fter "Inventions"); any sement for any of said y or indirectly claiming tent from which any all continuation applica blications of, regional- (hereinafter "Applicati	uding, with and all e Inventions priority to application ations of, c phase app ons for Pa	out limitation, invention xisting and future applications (including, without lim or benefit of any application for any of ontinuation-in-part applications of, renewals of tent"); any and all pate	rights, utility patent rights lications for patent of an itation, said application fo cation for patent for any o said Inventions directly o lications (hereinafter CIPs of, and substitutes for any onto which may be granted.
I HEREBY represent that I convey my full entire right, title, and interest herein assigned and conflict herewith;	rights in all countries d transferred, and tha	and region I have no	ns and under all intern t executed and will not	ational agreements to the execute any agreement in
AND I HEREBY authorize HPDC, its suc Applications for Patent in its name or in my na authorize HPDC, its successors, its assigns, it number, and patent office of said application for them;	me in any country or is nominees, and its	region or legal repr	under any internation esentatives to insert t	al agreement, and further he filing date, application
AND I HEREBY authorize and request the o duty it is to issue patents, to issue to HPDC, its Patents, in accordance with the terms of this assign	successors, or its ass	and regio igns, as as	ns and under all internations ssignee of my entire rig	ational agreements whose tht, title, and interest, said
AND I HEREBY covenant and agree that I we such papers as may be necessary or desirable HPDC, its successors, or its assigns; communical known facts respecting said Inventions, Applicand sign all lawful papers (including, without I applications) relating to said Inventions, Applications) relating to said Inventions, Applications of the said Inventions, Applications, and enforce, for its or their own benefit, and Patents, provided the expenses which may be its successors, its assigns, its nominees, or its leg	e to perfect the title in the to HPDC, its succe- cations for Patent, and limitation, divisional tions for Patent, and its successors, its as proper intellectual pro- be incurred by me in le	n said Invessors, its and Patents; applications Patents; a signs, its reports	entions, Applications for ssigns, its nominees, or testify in any legal or a s, continuation applica nd make all rightful or nominees, and its legal action for said Invention	r Patent, and Patents, to r its legal representatives, dministrative proceedings ittions, CIPs, and reissue this and declarations and representatives to obtain, is, Applications for Patent.
IN WITNESS WHEREOF, I hereunto set my	hand and seal:			
MINAL		[0	04	2019
Inventor's Signature		Day	Month	Year
Mithra Vankipuram Given (First and Middle) Name(s) Family Name				
Cross (Final and middle) Hame(a) Family Name	•			

Rev 8/2018 (HPDC Assignment)

PATENT REEL: 056570 FRAME: 0050

RECORDED: 06/17/2021