PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

ic Version v1.1 EPAS ID: PAT6323096

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
IRWAN HALIM	04/25/2018
LEI MAN	04/26/2018
KUNCHEN XIE	04/27/2018

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:	17042971

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.

Correspondent Name: HP INC.

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Address Line 4: FORT COLLINS, COLORADO 80528

ATTORNEY DOCKET NUMBER:	85932599
NAME OF SUBMITTER:	TRACY J. KIMMEL
SIGNATURE:	/Tracy J. Kimmel/
DATE SIGNED:	09/29/2020

Total Attachments: 3

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PATENT 506276349 REEL: 053910 FRAME: 0960

HP Inc.	٦
3390 E. Harmony Road	
Mail Stop 35	1
Fort Collins, Colorado 80528	3

PATENT APPLICATION

RECORD ID:	84950716

ASSIGNMENT OF PATENT APPLICATION

and in furtherance of m Limited Partnership havi subsidiaries and affiliates	y/our obligations to HEWLETT ng its principal place of busir , agree to assign and transfer a	-PACKARD DEVELO ness in Houston, Te nd hereby assign and	eipt of which is hereby acknowledged OPMENT COMPANY, L.P., a Texas exas, (hereinafter HPDC), and to its transfer to HPDC, its successors and o and under an application for Paten
SIGNALS TO I/O DEVICE	ES BASED ON VIRTUAL COMI	PUTER MESSAGES	
Filing Date: 27 Apr 2	2018	Application No.:	PCT/US2018/029856
divisionals, and renewals	of and substitutes for said appli	cation for said Paten	nuations, continuations-in-part (C-I-P's, t, and any and all other Patent of an or reexaminations, or extensions of sale
by HPDC, its successors, Patent respectively may be	assigns, nominees or legal repre	sentatives, to the full as fully and entirely a	at in any country, to be held and enjoyed end of the term or terms for which said as the same would have been held and
executed and will not exectime a request is made, an perfect the title to said invenominees or legal represer said invention(s) or improvipapers, to execute all disrightful oaths and declaration legal representatives to obtain improvement(s) in any and and assistance are paid by	ute any agreement in conflict here d without undue delay, execute as ention(s) or improvement(s), said a statives, and I/we agree to comming ement(s), said application and sa claimers and divisionals, continuous, and generally to do everything stain and enforce, for its or their all countries provided the expense HPDC;	ewith, and I/we further and deliver all such papapplication and said Punicate to HPDC, or to deliver, to testify in ations, C-I-P's, reissurg possible to aid HPDC own benefit, proper pas which may be incurred.	therein assigned, and that I/we have not covenant and agree that I/we will, each ers as may be necessary or desirable to atent, to HPDC, its successors, assigns of its nominee, all known facts respecting any legal proceedings, to sign all lawfue and foreign applications, to make a C, its successors, assigns, nominees and atent protection for said invention(s) of the cooperation of the cooperation of the cooperation is at the cooperation of the co
applications as aforesaid, t	o issue to HPDC, as assignee or nt(s) which may be issued and	f the entire right, title	les whose duty it is to issue patents or and interest, any and all Patent for said 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 tit	ord to insert the filing le set forth above, as	g date and application number of said soon as the same shall have been made
IN WĮTNESS WHEREG	OF, I/we hereunto set my/our h	and(s) and seal(s):	
		<u> </u>	4 / 25 / 2018
Inventor's Signature	· · · · · · · · · · · · · · · · · · ·	Date	** <u>***********************************</u>
Irwan	HALIM		
First/Middle Name	Last Name		
Inventor's Signature		Date	
Lei	MAN		
First/Middle Name	Last Name	·····························	
Rev 8/2014 (Assignment)	Page	1 of 2	

PATENT REEL: 053910 FRAME: 0961

HP Inc.	***************************************
3390 E. Hen	mony Road
Mail Stop 35	
Fort Collins,	Colorado 80528

Rev 8/2014 (Assignment)

PATENT APPLICATION

RECORD ID:

84950716

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/cur obligations to HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P., a Texas

subsidiaries a	ind affiliates, agree to assign a	nd transfer and hereby assign and t	as, (bereinafter HPDC), and to its ransfer to HPDC, its successors and
assigns, the rentitled:	entire right, title and interest, i	ncluding the right of priority, in, to	and under an application for Patent
enuntra atampina Pagasa Balanda atam	IO DEVICES BASED ON VIR	TUAL COMPUTER MESSAGES	
	27 Apr 2018		DOM (7700010100007
Filing Date:	_,p0-0	Application No.:	PCT/US2018/029856
divisionals, an	d renewals of and substitutes	for said application for said Patent,	uations, continuations-in-part (C-I-P's), and any and all other Patent of any reexaminations, or extensions of said
by HPDC, its Patent respect	successors, assigns, nominees	or legal representatives, to the full a or extended, as fully and entirely as	in any country, to be held and enjoyed nd of the term or terms for which said the same would have been held and
executed and time a request perfect the title nominees or it said invention; papers, to ex- rightful caths a legal represen- improvement(s	will not execute any agreement is made, and without undue del to said invention(s) or improver again representatives, and I/we ages or improvement(s), said applicate all disclaimers and division declarations, and generally to datives to obtain and enforce, fi	in conflict herewith, and I/we further in ay, execute and deliver all such paper ment(s), said application and said Pa gree to communicate to HPDC, or to loation and said Patent, to testify in a male, continuations, C-I-P's, relesue to do everything possible to aid HPDC, or its or their own benefit, proper po	herein assigned, and that I/we have not covenant and agree that I/we will, each is as may be necessary or desirable to tent, to HPDC, its successors, assigns, its nominee, all known facts respecting my legal proceedings, to sign all fawful and foreign applications, to make all its successors, assigns, nominees and item protection for said invention(s) or id by me/us in lending such cooperation
applications as invention(s) or	s aforesaid, to issue to HPOC, a	is assignee of the entire right, title a	is-whose duty it is to issue patents on nd interest, any and all Patent for said result of the application aforesaid, in
	Patent, now identified by the Re		date and application number of said oon as the same shall have been made
IN WITN	ESS WHEREOF, I/we hereunto	set my/our hand(s) and seal(s):	
Inventor's Signa	we .	Date	
Irwan	HALIM		
First/Middle Nan			
inventor's Signs	z mar lei	2 <u>0</u>	14/26/2018
areamer a costing		Uate.	
Lei	MAN		
First/Micidle Nan	ne Last Name		

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PATENT REEL: 053910 FRAME: 0962

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

3390 E, Harmony Road Mail Stop 35			FATENT AFFLICATION
Fort Collins, Colorado 80528		RECORD ID:	84950716
	ASSIGNMENT OF PATEN	T APPLICATION (co	ent.)
游坤辰	Xie Kunchen	0	4 /27 / 2018
Inventor's Signature		Date	
Kunchen	XIE.		
First/Middle Name	Last Name		
Inventor's Signature			
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	
First/Middle Name	Last Name		
Inventor's Signature		Date	
First/Middle Name	Last Name		

Rev 8/2014 (Assignment)

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