505177239 11/06/2018

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5224007

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
ROBERT YRACEBURU	10/31/2018
MATTHEW DOUGLAS REIER	10/31/2018
KYNAN LON CHURCH	10/31/2018
ELLIOTT DOWNING	10/31/2018

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:	16177349

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: 5417158443 **Email:** ipa.mail@hp.com

Correspondent Name: HP INC.

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

Address Line 4: FORT COLLINS, COLORADO 80528

ATTORNEY DOCKET NUMBER:	84955082
NAME OF SUBMITTER:	SCOTT LUND
SIGNATURE:	/SCOTT LUND/
DATE SIGNED:	11/06/2018

Total Attachments: 4

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PATENT 505177239 REEL: 047422 FRAME: 0446

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> PATENT REEL: 047422 FRAME: 0447

RECORD	ID:	84955082
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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 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):				
MEDIA TRANSPORT				
Filing Date: Application No.	3		Patent Office: US ;	
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 any of 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, 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 my hand and seal:				
Malt Julius Inventor's Signature	31 Day	<u> つった</u> Month	<u>2016</u> Year	
Robert Yraceburu	·			
Given (First and Middle) Name(s) Family Name				

Family Name

RECORD ID: 84955082	
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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 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):

parents in the approximation parents in all all all all all all all all all al		•	
MEDIA TRANSPORT			
Filing Date: Application No.:			Patent Office: US ;
the subject matter, including any and all inventions, improvements, an herein "patent" refers to any form of intellectual property protection in design rights, and utility model rights) (hereinafter "Inventions"); are country or region or under any international agreement for any of sa patent, any and all applications for patent directly or indirectly claiming said Inventions, any and all applications for patent from which any indirectly claims priority or benefit, and any and all continuation applied, divisional applications of, national-phase applications of, regional application for patent for any of said Inventions) (hereinafter "Application or as a result of said Applications for Patent (hereinafter "Patents of said Applications for Patents).	cluding, without all exited inventions of the priority to control application for cations of, control attorns for Pate attorn	ut limitation, invention in sting and future applic (including, without limit or benefit of any applica for patent for any of so ntinuation-in-part applications of, renewals of ent"); any and all paten	rights, utility patent rights, cations for patent of any ation, said application for ation for patent for any of aid Inventions directly or cations (hereinafter CIPs) f, and substitutes for any its which may be granted
I HEREBY represent that I convey my full rights in all countrie entire right, title, and interest herein assigned and transferred, and the conflict herewith;	s and regions at I have not	and under all interna executed and will not e	tional agreements to the execute any agreement in
AND I HEREBY authorize HPDC, its successors, its assign Applications for Patent in its name or in my name in any country authorize HPDC, its successors, its assigns, its nominees, and it number, and patent office of said application for patent, now identification;	or region or us s legal repres	under any internationa sentatives to insert th	I agreement, and further e filing date, application
AND I HEREBY authorize and request the officials of all countri duty 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	ssigns, as ass		
AND I HEREBY covenant and agree that I will, each time a requision papers as may be necessary or desirable to perfect the title HPDC, its successors, or its assigns; communicate to HPDC, its successors and inventions, Applications for Patent, a and sign all lawful papers (including, without limitation, divisiona applications) relating to said Inventions, Applications for Patent, and generally to do everything possible to aid HPDC, its successors, its maintain, and enforce, for its or their own benefit, proper intellectual pand Patents, provided the expenses which may be incurred by me in its successors, its assigns, its nominees, or its legal representatives.	in said Inver cessors, its as and Patents; to applications, d Patents; an assigns, its no property protect	ntions, Applications for signs, its nominees, or estify in any legal or act, continuation applicated and make all rightful oat ominees, and its legal in ction for said Inventions	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 WITNESS WHEREOF, I hereunto set my hand and seal:			
The Toyle Time	31	10	18
Inventor's Signature	Day	Month	Year
Matthew Douglas Reier			
Given (First and Middle) Name(s) Family Name			

RECORD	ID:	84955082
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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

having its principal place of but title, and interest, including all	transfer to HEWLETT-PACKARD DEVELOPMENT COMP siness in Houston, Texas, (hereinafter "HPDC"), its succe rights of priority, in, to, and under an application for pro- or patent is in another language):	essors, and its assigns, my entire right
MEDIA TRANSPORT		
Filing Date:	Application No.:	Patent Office: US
herein "patent" refers to any form design rights, and utility model country or region or under any i patent, any and all applications said Inventions, any and all ap indirectly claims priority or benef of, divisional applications of, na application for patent for any of	r and all inventions, improvements, and discoveries, set for n of intellectual property protection including, without limita rights) (hereinafter "Inventions"); any and all existing an international agreement for any of said Inventions (including for patent directly or indirectly claiming priority to or benef plications for patent from which any application for patentic, and any and all continuation applications of, continuational-phase applications of, regional-phase applications said Inventions) (hereinafter "Applications for Patent"); and the result of the patents of the patents.	ntion, invention rights, utility patent rights nd future applications for patent of an ng, without limitation, said application for fit of any application for patent for any of nt for any of said Inventions directly of on-in-part applications (hereinafter CIPs of, renewals of, and substitutes for an any and all patents which may be granter
I HEREBY represent that I entire right, title, and interest her conflict herewith;	convey my full rights in all countries and regions and urein assigned and transferred, and that I have not execute	nder all international agreements to the d and will not execute any agreement in
Applications for Patent in its na authorize HPDC, its successor	HPDC, its successors, its assigns, its nominees, and ame or in my name in any country or region or under as its assigns, its nominees, and its legal representative displication for patent, now identified by the Record ID a	ny international agreement, and furthe es to insert the filing date, application
duty it is to issue patents, to iss	and request the officials of all countries and regions and un ue to HPDC, its successors, or its assigns, as assignee of terms of this assignment and transfer;	nder all international agreements whose of my entire right, title, and interest, said
such papers as may be necess HPDC, its successors, or its ass all known facts respecting said I and sign all lawful papers (inc applications) relating to said Inc generally to do everything possi maintain, and enforce, for its or t and Patents, provided the expen	and agree that I will, each time a request is made, and with sary or desirable to perfect the title in said Inventions, A igns; communicate to HPDC, its successors, its assigns, it inventions, Applications for Patent, and Patents; testify in cluding, without limitation, divisional applications, continuentions, Applications for Patent, and Patents; and make ble to aid HPDC, its successors, its assigns, its nominees heir own benefit, proper intellectual property protection for isses which may be incurred by me in lending such cooperate iminees, or its legal representatives.	Applications for Patent, and Patents, to the nominees, or its legal representatives any legal or administrative proceedings uation applications, CIPs, and reissue all rightful oaths and declarations and and its legal representatives to obtain said Inventions, Applications for Patent
IN WITNESS WHEREOF, I	hereunto set my hand and seal:	
1/6 (-1/)	31 00	mber 2018
Inventor's Signature	Day Month	Year
Kynan Lon Church		
Given (First and Middle) Name(s)	Family Name	

Rev 8/2018 (HPDC Assignment)

RECORD	ID:	84955082

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):

MEDIA TRANSPORT			
Filing Date:	Application No.:		Patent Office: US
the subject matter, including any and all inherein "patent" refers to any form of intelledesign rights, and utility model rights) (hountry or region or under any international patent, any and all applications for patent said Inventions, any and all applications indirectly claims priority or benefit, and any of, divisional applications of, national-pharapplication for patent for any of said Inveron or as a result of said Applications for For Said Applications for Patent or said Paternal rights.	ctual property protection including, wit ereinafter "Inventions"); any and all al agreement for any of said Invention directly or indirectly claiming priority t for patent from which any applicatio y and all continuation applications of, se applications of, regional-phase ap ations) (hereinafter "Applications for P Patent (hereinafter "Patents"); and any	thout limitation, invent existing and future a ns (including, without to or benefit of any ap on for patent for any continuation-in-part a polications of, renewa Patent"); any and all p	ion rights, utility patent rights polications for patent of an limitation, said application for patent for any of said Inventions directly of splications (hereinafter CIPs is of, and substitutes for any atents which may be granted.
I HEREBY represent that I convey n entire right, title, and interest herein assign conflict herewith;			•
AND I HEREBY authorize HPDC, Applications for Patent in its name or in authorize HPDC, its successors, its assinumber, and patent office of said applicat them;	my name in any country or region ogns, its nominees, and its legal rep	or under any internat presentatives to inse	ional agreement, and furthe rt the filing date, application
AND I HEREBY authorize and request duty it is to issue patents, to issue to HPE Patents, in accordance with the terms of the	OC, its successors, or its assigns, as		· ·
AND I HEREBY covenant and agree such papers as may be necessary or de HPDC, its successors, or its assigns; come all known facts respecting said Inventions and sign all lawful papers (including, wapplications) relating to said Inventions, Agenerally to do everything possible to aid maintain, and enforce, for its or their own band Patents, provided the expenses which its successors, its assigns, its nominees, or	esirable to perfect the title in said In municate to HPDC, its successors, its , Applications for Patent, and Patents ithout limitation, divisional application Applications for Patent, and Patents; HPDC, its successors, its assigns, its penefit, proper intellectual property pronany be incurred by me in lending su	ventions, Applications assigns, its nominee s; testify in any legal o ns, continuation app and make all rightfu s nominees, and its le otection for said Inven	s for Patent, and Patents, to s, or its legal representatives or administrative proceedings blications, CIPs, and reissue I oaths and declarations and gal representatives to obtain tions, Applications for Patent
IN WITNESS WHEREOF, I hereunto	set my hand and seal:		
Clark Do	31	October	2018
Inventor's Signature	Day	Month	Year
Elliott Downing			
Given (First and Middle) Name(s) Famil	y Name		

Rev 8/2018 (HPDC Assignment)

PATENT REEL: 047422 FRAME: 0451

RECORDED: 11/06/2018