PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT7584096

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
TATSUNORI IZAWA	05/28/2020
TAKAYUKI HORIE	05/28/2020
YASUO SUZUKI	05/28/2020
SATORU FURUYA	05/28/2020
SATOSHI OHWADA	05/28/2020
HIROYUKI SATO	05/28/2020
KOICHI UTSUNOMIYA	05/28/2020

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:	17918221

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

Address Line 2: MAIL STOP 35

Address Line 4: FORT COLLINS, COLORADO 80528-9544

ATTORNEY DOCKET NUMBER:	86194088
NAME OF SUBMITTER:	GEORGE C. ECKERT
SIGNATURE:	/George C. ECKERT/
DATE SIGNED:	10/11/2022

507537204 PATENT REEL: 061378 FRAME: 0437

Total Attachments: 7 source=85876010_Executed Assignment#page1.tif source=85876010_Executed Assignment#page2.tif source=85876010_Executed Assignment#page3.tif source=85876010_Executed Assignment#page4.tif source=85876010_Executed Assignment#page5.tif source=85876010_Executed Assignment#page6.tif source=85876010_Executed Assignment#page7.tif

PATENT REEL: 061378 FRAME: 0438

PATENT APPLICATION

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ASSIGNMENT OF PATENT APPLICATION

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Figure 29 May 2020 Approximates 2020-094461 Fearer Office 3F

PATENT APPLICATION

RECORD	ID:	8587	6010

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 (hereignafter "HPDC") its successors, and its assigns my entire right title eses

and interest, i	ncluding all rig		o, and under an applicat			assigns, my entire right, title, -language title in parentheses
ベルト損傷を	E低減する定績	蓄装置(Fixing de	evice for reducing bel	t damage)		
Filing Date:	29 May 2	2020	Application No.:	2020-0	94461	Patent Office: JP;
herein apatent design rights, country or reg patent, any ar said Invention indirectly clair of, divisional application for on or as a res	" refers to any and utility milion or under a all applications, any and all applications of patent for an aut of said Ap	form of intellectual odel rights) (herein any international agons for patent direil applications for penefit, and any any f, national-phase ay of said Invention	I property protection incl nafter "Inventions"); any greement for any of said ctly or indirectly claiming patent from which any d all continuation applica- ipplications of, regional- s) (hereinafter "Applications")	uding, without and all extended in the interest of the interes	out limitation, inver- isting and future (including, without or benefit of any a for patent for any intinuation-in-part cations of, renews ent"); any and all p	application for patent (as used tion rights, utility patent rights, applications for patent of any ilmitation, said application for pplication for patent for any of of said Inventions directly or applications (hereinafter CIPs) als of, and substitutes for any patents which may be granted examinations, and extensions
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such papers a HPDC, its suc all known fact and sign all applications) generally to d maintain, and and Patents, p	as may be ne cessors, or its s respecting s lawful papers relating to said o everything p enforce, for its provided the ex	ecessary or desiral essigns; communi- aid Inventions, Ap, (including, withou d Inventions, Appli- ossible to aid HPC or their own bene expenses which ma	ble to perfect the title in icate to HPDC, its succes plications for Patent, an it limitation, divisional ications for Patent, and iccolor, its successors, its as fit, proper intellectual pro-	n said Inve ssors, its as d Patents; t applications Patents; ar signs, its n apperty prote	ntions, Application ssigns, its nomines estify in any legal , continuation ap nd make all rightfu ominees, and its le ction for said inver	delay, execute and deliver all is for Patent, and Patents, to es, or its legal representatives, or administrative proceedings plications, CIPs, and reissue all oaths and declarations and egal representatives to obtain, ations, Applications for Patent, assistance are paid by HPDC,
IN WITN		OF, I hereunto set i	my hand and seal:			
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Inventor's Sig				⊔ay	Month	Year
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Rev 8/2018 (HPDC Assignment)

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RECORD	10:	85876010	

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 Parmership 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): ベルト損傷を低減する定義装置(Fixing device for reducing belt damage) Filing Date: 29 May 2020 2020-094461 Application No.: Patent Office: JP ; 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 end 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 LHEREBY 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, GIPs, and reissue applications) relating to said inventions, Applications for Patent, and Patents; and make all rightful paths 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, Thereunto set my hand and seal: 28 May 2020 Takayuki Horie Given (First and Middle) Name(s) Family Name

Rev 5/2019 (HPDC Assignment)

RECORD ID:_	85876010

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): ベルト損傷を低減する定着装置(Fixing device for reducing belt damage) Application No.: 2020-094461 29 May 2020 Filing Date: Patent Office: JP 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: MAY 2020 Inventor's Signature Month

Rev 8/2018 (HPDC Assignment)

Given (First and Middle) Name(s)

Family Name

Yasuo Suzuki

RECORD	ID:	85876010	

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): ベルト損傷を低減する定着装置(Fixing device for reducing belt damage) Filing Date: 29 May 2020 2020-094461 Application No.: Patent Office: JP ; 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: $\frac{28}{\text{Day}} \frac{\text{May}}{\text{Month}} \frac{2020}{\text{Year}}$ Inventor's Signature Satoshi Ohwada Given (First and Middle) Name(s) Family Name

Rev 8/2018 (HPDC Assignment)

RECORD	ID:	85876010

ASSIGNMENT OF PATENT APPLICATION

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if said application for patent is in another language): ベルト損傷を低減する定着装置(Fixing device for reducing belt damage) Application No.: 2020-094461 Filling Date: 29 May 2020 Patent Office: JP 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: $\frac{2\delta}{Day} = \frac{May}{Month} = \frac{2020}{Year}$ Hirovuki Sato Given (First and Middle) Name(s) Family Name

Rev 8/2018 (HPDC Assignment)

HP Inc.	PATENT APPLICATION
3390 E. Harmony Road Mail Stop 35	RECORD ID: 85876010
Fort Collins, Colorado 80528	NECOND ID.

ASSIGNMENT OF PATENT APPLICATION

transfer and he having its princ and interest, inc	reby assign and tran ipal place of busines	nd valuable consideration, the rec nsfer to HEWLETT-PACKARD DE's ss in Spring, Texas, (hereinafter "h priority, in, to, and under an applica other language):	/ELOPMEN (PDC"), its :	T COMPANY, successors, and	L.P., a Texas Limited Partnership dits assigns, my entire right, title
ベルト損傷を	低減する定着装置	(Fixing device for reducing be	it damage)		
Filing Date:	29 May 2020	Application No.:	2020-0	94461	Patent Office: JP
herein "patent" design rights, a country or regic patent, any and said Inventions indirectly claims of, divisional application for a on or as a resu	refers to any form of and utility model rig on or under any inte- d all applications for , any and all applica- is priority or benefit, in optications of, nation patent for any of sai	and all inventions, improvements, an fintellectual property protection incidets) (hereinafter "Inventions"); any mational agreement for any of said patent directly or indirectly claiming actions for patent from which any and any and all continuation applicated any and all continuation applicated inventions) (hereinafter "Applications for Patent (hereinafter "Patents" id Patents.	luding, without all explanations of co- phase application application ations of co- phase applications for Pations for Pations for Pations for Pations for Pations applications for Pations for Pation	out limitation, in disting and future (including, with or benefit of an for patent for a continuation-in-patentions of, ren- ent"), any and	vention rights, utility patent rights re applications for patent of any iout limitation, said application to y application for patent for any o any of said Inventions directly o art applications (hereinafter CIPs ewals of, and substitutes for any all patents which may be granted
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Applications for authorize HPD0	Patent in its name C, its successors, i	PDC, its successors, its assigns or in my name in any country of the assigns, its nominees, and its pplication for patent, now identified	r region or legal repre	usider any inte sentativos to i	restional agreement, and further users the filing date, application
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IN WITNES	S WHEREOF, I her	eunto set my hand and seal:			
Koichi	Utsuromiy	a	28	may	2020
Inventor's Signal			Day	Month	Year
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Rev 8/2018 (HPDC Assignment)

PATENT REEL: 061378 FRAME: 0445

RECORDED: 10/11/2022