505862806 01/14/2020

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5909743

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
WAN CHIN KIM	09/26/2019
WAN HO LEE	10/28/2019
KYOUNG MAN KIM	08/05/2019
SU HWAN KIM	08/05/2019
YONG SHIK PARK	10/01/2019
SANG KOO HAN	08/05/2019

RECEIVING PARTY DATA

Name:	HP Printing Korea Co., Ltd.	
Street Address:	129, Samsung-ro, Yeongtong-guSuwon-si Gyeonggi-do	
Internal Address:		
City:	Suwon-si Gyeonggi-do	
State/Country:	Korea	
Postal Code:	443-742	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15981422

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)715-8443 **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:	84957630
NAME OF SUBMITTER:	"RAPH" YOUNGHOON KIM #78,715
SIGNATURE:	/YOUNGHOON KIM/
DATE SIGNED:	01/14/2020

PATENT 505862806 REEL: 051586 FRAME: 0894

Total Attachments: 6

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PATENT REEL: 051586 FRAME: 0895

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ASSIGNMENT OF PATENT APPLICATION

I the undersinged for good and valuable consideration, the receipt of which is hereby acknowledged, agree to assign and

transfer and I Samsung-ro, ' title, and inter	ersigned, for good and value hereby assign and transfer Yeongtong-gu, Suwon-si, Gy rest, including all rights of I said application for patent is	to HP PRINTING KORE reanggl-do, Karea, (herein priority, in, to, and under	A CO., LTD., ha after "HPPK"), its an application fo	iving a principal successors, and or patent entitled	its assigns, my entire right,
		ING APPARATUS AND			REIN)
Filing Date:	November 18, 2015	Application No.:	10-2015-01616	83	Patent Office: KR
herein "paten' design rights, country or reg patent, any ai said Inventior indirectly clair of, divisional application fo on or as a res	, and utility model rights) (t gion or under any internation nd all applications for patent ns, any and all applications ms priority or benefit, and ar	ectual property protection in nereinafter "Inventions"); a lall agreement for any of si- directly or indirectly claim for patent from which an ly and all continuation app use applications of, region intions; (hereinafter "Applic Patent (hereinafter "Patent	ncluding, without I iny and all existing aid Inventions (ind ing priority to or to y application for lications of, conting al-phase applicat actions for Patent'	imitation, inventions and future aparticular, without libenefit of any apprended for any operation-in-part appropers of, renewals (*), any and all particular and all	on rights, utility patent rights, oplications for patent of any mitation, said application for plication for patent for any of if said Inventions directly or oplications (hereinafter CIPs) of, and substitutes for any tents which may be granted
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IN WITN	ESS WHEREOF, Thereunto	set my hand and seal:			
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Inventor's Signa Wan Chin Given (First and	ature KIM i Middle) Name(s) Family	Name	Day	Month/	Year /

Rev 8/2018 (HPPK Assignment)

Filing Date:

November 18, 2015

PATE		

Patent Office: KR

RECORD ID: 84740756

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 HP PRINTING KOREA CO., LTD., having a principal business address of 129. Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, Korea, (hereinafter "HPPK"), 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):

화상 형성 장치 및 이에 포함되는 발광 소차

(IMAGE FORMING APPARATUS AND LIGHT EMITTING DEVICE THEREIN)

herein "patent" refers to any form of Intelled design rights, and utility model rights) (he country or region or under any internation, 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-pha- application for patent for any of said Inven	entions, improvements, and discoveries, set forth in said application for patent (as used stual property protection including, without limitation, invention rights, utility patent rights, ereinafter "Inventions"); any and all existing and future applications for patent of any all agreement for any of said Inventions (including, without limitation, said application for directly or indirectly claiming priority to or benefit of any application for patent for any of or patent from which any application for patent for any of said Inventions directly or and all continuation applications of, continuation-in-part applications (hereinafter CIPs) are applications of, regional-phase applications of, renewals of, and substitutes for any tions) (hereinafter "Applications for Patent"); any and all patents which may be granted atent (hereinafter "Patents"); and any and all reissues, reexaminations, and extensions
patent, any and all applications for patent said Inventions, any and all applications indirectly claims priority or benefit, and any of, divisional applications or, national-pha applications for patent for any of said Inventional	directly or indirectly claiming priority to or benefit of any application for patent for any for patent from which any application for patent for any of said Inventions directly and all continuation applications of, continuation-in-part applications (hereinafter CIF se applications of, regional-phase applications of, renewals of, and substitutes for a tions) (hereinafter "Applications for Patent"); any and all patents which may be grant atent (hereinafter "Patents"); and any and all reissues, reexaminations, and extension

Application No.: 10-2015-0161683

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 HPPK, 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 HPPK, 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 HPPK, 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 HPPK, its successors, or its assigns, communicate to HPPK, 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 fawful 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 eaths and declarations and generally to do everything possible to aid HPPK, 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 HPPK, its successors, its assigns, its nominees, or its legal representatives.

IN WITNESS WHEREOF, I hereunto set my hand and seal

Lee Wan	Hô	Σ	8 <u>0ct</u>	2019
Inventors Signature		Day		Year
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Rev 8/2018 (HPPK Assignment)

PATENT REEL: 051586 FRAME: 0897

of said Applications for Patent or said Patents.

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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 HP PRINTING KOREA CO., LTD., having a principal business address of 129 Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, Korea, (hereinafter "HPPK"), 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).

화장 형성 물리 및 이에 포함되는 발장 소자

(IMAGE FORMING APPARATUS AND LIGHT EMITTING DEVICE THEREIN)

Filing Date:	November 18, 2015	Application No.:	10-2015-0161683	Patent Office: KR
the subject ma	atter, including any and all inv	entions, improvements, a	nd discoveries set forth in s	aid application for patent (as used
herein "patent"	" refers to any form of intelled	tual property protection in	cluding, without limitation, i	evention rights, utility patent rights.
design rights	and utility model rights) (he	ereinafter "Inventions"); a	ny and all existing and fut	ure applications for patent of any
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application for	patent for any of said Inven	tions) (hereinafter "Applic	ations for Patent"); any and	all patents which may be granted
on or as a res	sult of said Applications for P	atent (hereinafter "Patent	s"); and any and all reissue	s, reexaminations, and extensions

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IN WITNESS WHEREOF I hereunto set my hand and seal:

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Inventor's Signature	Day	Month	Year
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ASSIGNMENT OF PATENT APPLICATION

t, 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 HP PRINTING KOREA CO., LTD., having a principal business address of 129. Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, Korea, (hereinafter "HPPK"), 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)

화상 범정 장치 및 이에 모합되는 봤랑 소작

(IMAGE FORMING APPARATUS AND LIGHT EMITTING DEVICE THEREIN)

Filing Date:	November 18, 2015	Application No.:	10-2015-0161683	Patent Office: KR
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IN WITNESS WHEREOF, I hercunto set my hand and seal

Inventor's Signat

Su Hwan Given (First and Middle) Name(s)

August 2019
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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 users and bereby assign and transfer to HP PRINTING KORFA CO. LTD., having a principal business address of 129

title, and inter	Yeongtong-gu, Suwon-si, Gye rest, including all rights of p said application for patent is 화상 행성	riority, in, to, and under	an application for	uccessors, and it patent entitled	s assigns, my entire right. (English-language title in
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Filing Date:	November 18, 2015	Application No.:	10-2015-016168	13	_Patent Office: KR ;
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IN WITN	ESS WHEREOF, I hereunto	set my hand and seal:			
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Rev 8/2018 (HPPK Assignment)

Given (First and Middle) Name(s)

Family Name

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HP Inc. 3390 E. Harmony Road Mail Stop 35	
3390 E. Harmony Road	
Mail Stop 35	
Fort Collins, Colorado 80)528

RECORD	ID: 84740756
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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 HP PRINTING KOREA CO., LTD., having a principal business address of 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, Korea, (hereinafter "HPPK"), 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):

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	(IMAGE FORMING APP)				
Filing Date:	November 18, 2015	Application No.:	10-2015-01616	583 Pa	tent Office: KR
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IN WITN	ESS WHEREOF, I hereunto	set my hand and seal:			
Inventor's Signa	45 4 sture		5 Day	AUGUST	2019 Year
Sang Koo	HAN		•		
Given (First and	Middle) Name(s) Family	Name			

Rev 8/2018 (HPPK Assignment)

PATENT REEL: 051586 FRAME: 0901