

PATENT ASSIGNMENT COVER SHEET

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| WOO CHUL SHIN | 03/19/2019 |
| JEONG HUN KIM | 03/19/2019 |
| SEUNG WAN LEE | 03/19/2019 |
| RECEIVING PARTY DATA | |
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| City: | SEONGNAM-SI, GYEONGGI-DO |
| State/Country: | KOREA, REPUBLIC OF |
| Postal Code: | 13529 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 16761982 |
| CORRESPONDENCE DATA | |
| Fax Number: | (970)778-4063 |
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| SIGNATURE: | /George C. ECKERT/ |
| DATE SIGNED: | 05/06/2020 |
| Total Attachments: 3 | |
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| source=85860879_0602-0301 Executed Assignment#page2.tif | |
| source=85860879_0602-0301 Executed Assignment#page3.tif | |

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

PATENT APPLICATION

RECORD ID: 84907341

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):

통발령 연결 유지를 위한 응답 지연 시간 결정 (RESPONSE DELAY TIME DETERMINATION TO MAINTAIN LONG POLLING CONNECTION)

Filing Date: 21 Nov 2017 Application No.: 10-2017-0155813 Patent Office: KR

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 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 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 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:

Woochul Shin
Inventor's Signature
WOOCHUL SHIN
Given (First and Middle) Name(s) Family Name

19 03 2019
Day Month Year

HP Inc.
3390 E. Harmony Road
Mail Stop 35
Fort Collins, Colorado 80526

PATENT APPLICATION

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IN WITNESS WHEREOF, I hereunto set my hand and seal:

JEONGHUN KIM
Inventor's Signature
JEONGHUN KIM
Given (First and Middle) Name(s) Family Name

19 03 2019
Day Month Year

Rev 8/2018 (HPPK Assignment)

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

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RECORD ID: 84907341

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IN WITNESS WHEREOF, I hereunto set my hand and seal:

SEUNGWAN LEE

Inventor's Signature

SEUNGWAN LEE

Given (First and Middle) Name(s) Family Name

19 03 2019
Day Month Year

Rev 9/2018 (HPPK Assignment)

PATENT

RECORDED: 05/06/2020

REEL: 052588 FRAME: 0608