

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT5337410

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| INTERNATIONAL BUSINESS MACHINES CORPORATION | 12/04/2018 |
| RECEIVING PARTY DATA | |
| Name: | SAMSUNG ELECTRONICS CO., LTD. |
| Street Address: | 129 SAMSUNG-RO (MAETAN-DONG) |
| Internal Address: | YEONGTONG-GU |
| City: | SUWON-SI, GYEONGGI-DO |
| State/Country: | KOREA, REPUBLIC OF |
| Postal Code: | 443-742 |
| PROPERTY NUMBERS Total: 2 | |
| Property Type | Number |
| Application Number: | 15264142 |
| Application Number: | 16031616 |
| CORRESPONDENCE DATA | |
| Fax Number: | (919)854-1401 |
| <i>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.</i> | |
| Phone: | 9198541400 |
| Email: | mderosa@myersbigel.com |
| Correspondent Name: | MYERS BIGEL, P.A. |
| Address Line 1: | 4140 PARKLAKE AVENUE |
| Address Line 2: | SUITE 600 |
| Address Line 4: | RALEIGH, NORTH CAROLINA 27612 |
| ATTORNEY DOCKET NUMBER: | 5649-4952/5649-4961DV |
| NAME OF SUBMITTER: | MEREDITH DEROSA |
| SIGNATURE: | /mld/ |
| DATE SIGNED: | 01/23/2019 |
| Total Attachments: 2 | |
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| source=5649_Assignment#page2.tif | |

Patent Assignment and Reservation

For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, and subject to the reservations stated in the Patent Assignment Agreement Reference No. L190102 between the Parties with an effective time and date of 11:59pm United States Eastern Time on November 29, 2018 ("Effective Time & Date") ("Patent Assignment Agreement"), International Business Machines Corporation, a New York corporation having a place of business at 1 New Orchard Road, Armonk, New York (hereinafter "ASSIGNOR"), hereby grants and assigns to Samsung Electronics Co., Ltd., a Korean corporation having a place of business at 129 Samsung-ro (Maetan-dong), Yeongtong-gu, Suwon-si, Gyeonggi-do 443-742, Republic of Korea (hereinafter "ASSIGNEE"), all of ASSIGNOR's right, title and interest in and to the United States Letters Patents and United States Patent Applications identified in Exhibit A, attached hereto, and all rights pursuant to 35 U.S.C. § 154 and any and all Letters Patent issuing therefrom (hereinafter, collectively, "ASSIGNED PATENTS"), to have and to hold the same, unto ASSIGNEE for its own use and enjoyment and for the use and enjoyment of its successors and assigns, including all past, present, and future causes of action and claims for damages and injunctive relief for infringement of any of the Assigned Patents and the sole right to sue therefor under such Assigned Patents, for the full term or terms of all such ASSIGNED PATENTS, subject to all rights granted under the ASSIGNED PATENTS to third parties prior to said Effective Time & Date.

ASSIGNOR hereby reserves and retains, for the benefit of itself and its subsidiaries and its and their successors and assigns, the rights and licenses set forth in the Patent Assignment Agreement.

IN WITNESS WHEREOF, ASSIGNOR has caused this Patent Assignment and Reservation to be duly signed on its behalf.

Signature: Stephen Mortinger Date: 12-4-18

Name: Stephen Mortinger

Title: Associate General Counsel and Managing Attorney, IP Law

State of New York)
) S.S.

County of Westchester)

Before me this 4th day of December, 2018, personally appeared Stephen Mortinger, to me known to be the person who is described in and who signed the foregoing Assignment and acknowledged to me that he/she signed the same of his/her own free will for the purpose therein expressed.

Eileen M. Powers

Notary Public

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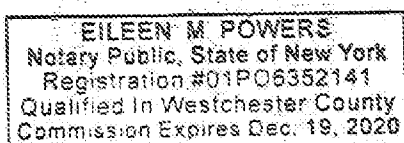


EXHIBIT A

LISTED PATENTS (United States)

Granted US Patents

| IBM Docket Number | Country | Patent Number | Application Number | Filing Date | Issue Date |
|-------------------|---------|---------------|--------------------|-------------|------------|
| YOR920160628US1 | US | 10050143 | 15/264142 | 9/13/2016 | 8/14/2018 |

Pending Applications

US Patent Applications

| IBM Docket Number | Country | Application Number | Filing Date | Published Application Number |
|-------------------|---------|--------------------|-------------|------------------------------|
| YOR920160628US02 | US | 16/031616 | 7/10/2018 | |

END OF EXHIBIT A

