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| PATENT ASSIGNMENT COVER SHEET |
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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| IBM CANADA LTD. | 11/18/2019 |
| RECEIVING PARTY DATA | |
| Name: | IBM CORPORATION |
| Street Address: | 1 NEW ORCHARD ROAD |
| City: | ARMONK |
| State/Country: | NEW YORK |
| Postal Code: | 10504 |
| PROPERTY NUMBERS Total: 3 | |
| Property Type | Number |
| Application Number: | 61453262 |
| Patent Number: | 9898862 |
| Application Number: | 15866075 |
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| NAME OF SUBMITTER: | PAMELA RADER |
| SIGNATURE: | /Pamela Rader/ |
| DATE SIGNED: | 12/02/2019 |
| Total Attachments: 3 | |
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| source=CONFIRMATORY ASSIGNMENT IBM CANADA LTD TO IBM CORPORATION#page2.tif | |
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IN THE UNITED STATES

PATENT AND TRADEMARK OFFICE

CONFIRMATORY PATENT ASSIGNMENT

By virtue of an agreement entered into prior to November 2, 2018, by and among:

- **IBM Canada Ltd. ("Assignor")** of 3600 Steeles Avenue East, Markham, Ontario, Canada L3R 9Z7; and
- **IBM Corporation ("Assignee")**, a corporation organized and existing under the laws of New York, having a place of business at 1 New Orchard Road, Armonk, New York, 10504, United States;

Assignor assigned to Assignee, its successors, legal representatives, and assigns, Assignor's entire right, title, and interest in, to, and under the patents and pending applications listed on the attached Schedule A, and all inventions relating thereto.

NOW THEREFORE, for the avoidance of doubt, Assignor hereby confirms the previous assignment, for good and valuable consideration by Assignee to Assignor, of all right, title, and interest in, to, and under the issued patents and, patent applications listed on the attached Schedule A, as well as any divisions, renewals, continuations and continuations-in-part thereof, including all Letters Patent of the United States which may be granted thereon and all reissues and extensions thereof, and all applications for Letters Patent which may hereafter be filed for inventions embodied by said pending applications in any country or countries foreign to the United States, and all Letters Patent which may be granted for said inventions embodied by said pending applications in any country or countries foreign to the United States and all extensions, renewals and reissues thereof and all rights of priority in any such country or countries based upon the filing of said pending applications in the United States which are created by any law, treaty, or international convention, together with the right to sue for and recover damages for past infringement of any such patents.

The Commissioner of Patents of the United States, and any Official of any country or countries foreign to the United States, whose duty is to issue patents on any such applications as aforesaid, is hereby authorized and requested to issue all Letters Patent for said inventions to Assignee, its successors, legal representatives and assigns, in accordance with the terms of these agreements.

IN WITNESS WHEREOF, the parties have caused this Confirmatory Patent Assignment to be signed by a duly authorized person, as of this ____ day of _____, 2019.

Date: Nov 18/19

IBM Canada Ltd.

By: [Signature]

Title: Secretary

Date: 11-21-19

IBM Corporation

By: Mark McBurney

Title: Counsel

SCHEDULE A

| Matter No. | Country | Patent No. Application No. | Issue Date Filing Date | Title | Status |
|---------------------------------|----------------|---------------------------------------|-----------------------------------|---|---------------|
| N/A | US | 61/453,262 | 03/16/2011 | SYSTEM AND METHOD FOR MODELING BUILDINGS AND BUILDING PRODUCTS | Expired |
| 106104- 1073056- 000500US | US | 9,898,862 13/421,624 | 02/20/2018 03/15/2012 | SYSTEM AND METHOD FOR MODELING BUILDINGS AND BUILDING PRODUCTS | Issued |
| 106104- 1073057- 000510US | US | 15/866,075 | 01/09/2018 | SYSTEM AND METHOD FOR MODELING BUILDINGS AND BUILDING PRODUCTS | Published |

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