

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT5451101

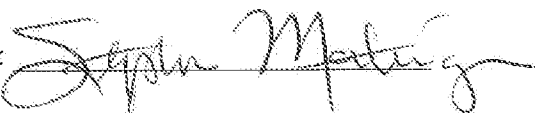
|                                                                                                                                                                                                 |                                 |                       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|-----------------------|
| <b>SUBMISSION TYPE:</b>                                                                                                                                                                         | NEW ASSIGNMENT                  |                       |
| <b>NATURE OF CONVEYANCE:</b>                                                                                                                                                                    | ASSIGNMENT                      |                       |
| <b>CONVEYING PARTY DATA</b>                                                                                                                                                                     |                                 |                       |
| <b>Name</b>                                                                                                                                                                                     |                                 | <b>Execution Date</b> |
| INTERNATIONAL BUSINESS MACHINES CORPORATION                                                                                                                                                     |                                 | 01/10/2019            |
| <b>RECEIVING PARTY DATA</b>                                                                                                                                                                     |                                 |                       |
| <b>Name:</b>                                                                                                                                                                                    | ECOBEE INC.                     |                       |
| <b>Street Address:</b>                                                                                                                                                                          | 207 QUEENS QUAY WEST, SUITE 600 |                       |
| <b>City:</b>                                                                                                                                                                                    | TORONTO                         |                       |
| <b>State/Country:</b>                                                                                                                                                                           | CANADA                          |                       |
| <b>Postal Code:</b>                                                                                                                                                                             | M5J 1A7                         |                       |
| <b>PROPERTY NUMBERS Total: 1</b>                                                                                                                                                                |                                 |                       |
| <b>Property Type</b>                                                                                                                                                                            | <b>Number</b>                   |                       |
| <b>Application Number:</b>                                                                                                                                                                      | 13751013                        |                       |
| <b>CORRESPONDENCE DATA</b>                                                                                                                                                                      |                                 |                       |
| <b>Fax Number:</b>                                                                                                                                                                              | (416)920-1350                   |                       |
| <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> |                                 |                       |
| <b>Email:</b>                                                                                                                                                                                   | docketing@pckip.com             |                       |
| <b>Correspondent Name:</b>                                                                                                                                                                      | PERRY + CURRIER INC.            |                       |
| <b>Address Line 1:</b>                                                                                                                                                                          | 1300 YONGE STREET               |                       |
| <b>Address Line 2:</b>                                                                                                                                                                          | SUITE 500                       |                       |
| <b>Address Line 4:</b>                                                                                                                                                                          | TORONTO, CANADA M4T1X3          |                       |
| <b>ATTORNEY DOCKET NUMBER:</b>                                                                                                                                                                  | P8375US01                       |                       |
| <b>NAME OF SUBMITTER:</b>                                                                                                                                                                       | KARINE SIVASAMBOO               |                       |
| <b>SIGNATURE:</b>                                                                                                                                                                               | /KARINE SIVASAMBOO/             |                       |
| <b>DATE SIGNED:</b>                                                                                                                                                                             | 04/01/2019                      |                       |
| <b>Total Attachments: 5</b>                                                                                                                                                                     |                                 |                       |
| source=ECOBEE_Assignment#page1.tif                                                                                                                                                              |                                 |                       |
| source=ECOBEE_Assignment#page2.tif                                                                                                                                                              |                                 |                       |
| source=ECOBEE_Assignment#page3.tif                                                                                                                                                              |                                 |                       |
| source=ECOBEE_Assignment#page4.tif                                                                                                                                                              |                                 |                       |
| source=ECOBEE_Assignment#page5.tif                                                                                                                                                              |                                 |                       |

Patent Assignment and Reservation

For good and valuable consideration, the receipt of which is hereby acknowledged, and subject to the terms and reservations stated in the Patent Assignment Agreement Reference No. L190132 between the parties with an effective time and date of 11:59pm United States Eastern Time on December 19, 2018 ("Effective Time & Date") ("Patent Assignment Agreement"), International Business Machines Corporation, a New York corporation having a place of business at New Orchard Road, Armonk, New York, 10504, U.S.A (hereinafter "ASSIGNOR"), hereby grants and assigns to ecobee Inc., a Canadian corporation having a place of business at 207 Queens Quay West, Suite 600, Toronto, ON M5J 1A7 (hereinafter "ASSIGNEE"), all of IBM's right, title and interest in and to the United States Letters Patents identified in Exhibit A and the United States patent applications identified in Exhibit C, attached hereto (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 damages for infringement of any of the ASSIGNED PATENTS accruing on and after the Effective Time & Date and the sole right to sue therefore 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:  Date: 1/10/19  
Name: Stephen Mortinger  
Title: Associate General Counsel  
and Managing Attorney, IP Law

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

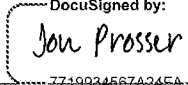
Signature:  Date: 1/16/2019  
Name: Jon Prosser  
Title: VP Finance

Exhibit A

Granted US Patents

| IBM Docket Number | Country | Patent Number | Application Number | Filing Date | Issue Date |
|-------------------|---------|---------------|--------------------|-------------|------------|
| *ARC920100081US1  | US      | 8639958       | 13/178027          | 7/7/2011    | 1/28/2014  |
| ARC920100081US2   | US      | 8700932       | 13/562626          | 7/31/2012   | 4/15/2014  |
| AUS920000399US1   | US      | 6460005       | 09/637329          | 8/10/2000   | 10/1/2002  |
| AUS920030235US1   | US      | 7197366       | 10/439036          | 5/15/2003   | 3/27/2007  |
| *AUS920040673US1  | US      | 7333014       | 10/981268          | 11/4/2004   | 2/19/2008  |
| AUS920040673US2   | US      | 7432805       | 11/953554          | 12/10/2007  | 10/7/2008  |
| AUS920040673US3   | US      | 7791472       | 12/179147          | 7/24/2008   | 9/7/2010   |
| AUS920050713US1   | US      | 8325926       | 11/348902          | 2/7/2006    | 12/4/2012  |
| AUS920050713US2   | US      | 8724811       | 13/620042          | 9/14/2012   | 5/13/2014  |
| AUS920110289US1   | US      | 9024765       | 13/348347          | 1/11/2012   | 5/5/2015   |
| AUS920120128US1   | US      | 9161419       | 13/540012          | 7/2/2012    | 10/13/2015 |
| AUS920120128US2   | US      | 9854645       | 14/819555          | 8/6/2015    | 12/26/2017 |
| AUS920120198US1   | US      | 9465392       | 13/676545          | 11/14/2012  | 10/11/2016 |
| AUS920140067US1   | US      | 9355547       | 14/284581          | 5/22/2014   | 5/31/2016  |
| AUS920140067US2   | US      | 9984590       | 15/146330          | 5/4/2016    | 5/29/2018  |
| AUS920140067US3   | US      | 9978290       | 15/146378          | 5/4/2016    | 5/22/2018  |
| BOC919990073US1   | US      | 6508407       | 09/596258          | 6/16/2000   | 1/21/2003  |
| CA920100078US1    | US      | 8738943       | 13/052754          | 3/21/2011   | 5/27/2014  |
| CA920120059US1    | US      | 9196103       | 13/754824          | 1/30/2013   | 11/24/2015 |
| CA920120059US2    | US      | 9982472       | 14/918882          | 10/21/2015  | 5/29/2018  |
| CH920050061US1    | US      | 7761233       | 11/428019          | 6/30/2006   | 7/20/2010  |
| CHA920090003US1   | US      | 8368754       | 12/402626          | 3/12/2009   | 2/5/2013   |
| DE920000112US1    | US      | 7130896       | 10/028225          | 12/18/2001  | 10/31/2006 |
| DE920120085US1    | US      | 9377791       | 13/647234          | 10/8/2012   | 6/28/2016  |
| DE920160049US1    | US      | 9733996       | 15/141606          | 4/28/2016   | 8/15/2017  |
| END920080046US1   | US      | 9008844       | 12/135239          | 6/9/2008    | 4/14/2015  |
| END920150350US1   | US      | 9382747       | 14/985068          | 12/30/2015  | 7/5/2016   |

|                  |    |          |           |            |            |
|------------------|----|----------|-----------|------------|------------|
| END920150350US2  | US | 9483933  | 15/152606 | 5/12/2016  | 11/1/2016  |
| END920160258US1  | US | 9693181  | 15/271362 | 9/21/2016  | 6/27/2017  |
| END920160397US1  | US | 9756607  | 15/334330 | 10/26/2016 | 9/5/2017   |
| FR920010061US1   | US | 6940413  | 10/358453 | 2/4/2003   | 9/6/2005   |
| FR920040063US1   | US | 7308321  | 11/257290 | 10/24/2005 | 12/11/2007 |
| IN920120130US1   | US | 9152154  | 13/564006 | 8/1/2012   | 10/6/2015  |
| IN920150239US2   | US | 9473321  | 15/018943 | 2/9/2016   | 10/18/2016 |
| IN920150239US3   | US | 9909772  | 15/233366 | 8/10/2016  | 3/6/2018   |
| IN920150239US4   | US | 10072866 | 15/675819 | 8/14/2017  | 9/11/2018  |
| JP920080282US1   | US | 8516499  | 12/622455 | 11/20/2009 | 8/20/2013  |
| JP920100129US1   | US | 8872638  | 13/446172 | 4/13/2012  | 10/28/2014 |
| JP920100129US2   | US | 8732270  | 13/604678 | 9/6/2012   | 5/20/2014  |
| POU920130180US2  | US | 9574786  | 15/068921 | 3/14/2016  | 2/21/2017  |
| POU920130180US3  | US | 9772115  | 15/349114 | 11/11/2016 | 9/26/2017  |
| POU920160377US02 | US | 10055569 | 15/723468 | 10/3/2017  | 8/21/2018  |
| POU920160377US1  | US | 9811653  | 15/332501 | 10/24/2016 | 11/7/2017  |
| ROC920120080US1  | US | 9681103  | 13/675349 | 11/13/2012 | 6/13/2017  |
| ROC920120080US2  | US | 9681104  | 13/751013 | 1/25/2013  | 6/13/2017  |
| ROC920120281US1  | US | 8934754  | 13/675391 | 11/13/2012 | 1/13/2015  |
| ROC920120281US2  | US | 9071807  | 13/751023 | 1/25/2013  | 6/30/2015  |
| ROC920120282US1  | US | 9041812  | 13/675429 | 11/13/2012 | 5/26/2015  |
| ROC920120282US2  | US | 9191632  | 13/751029 | 1/25/2013  | 11/17/2015 |
| RPS920090003US1  | US | 8081082  | 12/473181 | 5/27/2009  | 12/20/2011 |
| RSW920080271US1  | US | 8164443  | 12/420652 | 4/8/2009   | 4/24/2012  |
| YOR920030552US1  | US | 7109861  | 10/723740 | 11/26/2003 | 9/19/2006  |
| YOR920030552US2  | US | 7554444  | 11/495334 | 7/28/2006  | 6/30/2009  |
| YOR920040159US1  | US | 8224649  | 10/858083 | 6/2/2004   | 7/17/2012  |
| YOR920060394US1  | US | 7468662  | 11/455210 | 6/16/2006  | 12/23/2008 |
| YOR920060394US2  | US | 8134457  | 12/132890 | 6/4/2008   | 3/13/2012  |
| YOR920060482US1  | US | 8704893  | 11/622132 | 1/11/2007  | 4/22/2014  |

|                 |    |         |           |           |            |
|-----------------|----|---------|-----------|-----------|------------|
| YOR920060482US2 | US | 8860812 | 13/587038 | 8/16/2012 | 10/14/2014 |
| YOR920060500US1 | US | 8762060 | 11/668604 | 1/30/2007 | 6/24/2014  |
| YOR920060500US2 | US | 8805613 | 12/613758 | 11/6/2009 | 8/12/2014  |
| YOR920100401US1 | US | 8576066 | 13/036612 | 2/28/2011 | 11/5/2013  |
| YOR920120064US1 | US | 9599973 | 13/826419 | 3/14/2013 | 3/21/2017  |
| YOR920120064US2 | US | 9733630 | 13/971251 | 8/20/2013 | 8/15/2017  |
| YOR920130925US1 | US | 9270940 | 14/502110 | 9/30/2014 | 2/23/2016  |

\* inactive

**End of Exhibit A**

**Exhibit C**

**US Patent Applications**

| IBM Docket Number | Country | Application Number | Filing Date | Published Application Number |
|-------------------|---------|--------------------|-------------|------------------------------|
| CA920120059US03   | US      | 15/915924          | 3/8/2018    | 20180195334                  |
| END920080046US2   | US      | 14/674562          | 3/31/2015   | 20150204566                  |
| IN920150239US1    | US      | 14/948674          | 11/23/2015  | 20170149580                  |
| *POU920130180US1  | US      | 14/103270          | 12/11/2013  | 20150159893                  |
| ROC920120080US3   | US      | 15/465756          | 3/22/2017   |                              |

\* inactive

End of Exhibit C