

## TRADEMARK ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

ETAS ID: TM706981

<b>SUBMISSION TYPE:</b>	CORRECTIVE ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	Corrective Assignment to correct the Receiving Party from ECOBEE, INC. to ECOBEE INC. previously recorded on Reel 007532 Frame 0309. Assignor(s) hereby confirms the Release of Lien from AMERICAN STOCK TRANSFER & TRUST COMPANY, LLC D/B/A AST TRUST COMPANY (CANADA) to ECOBEE INC.

## CONVEYING PARTY DATA

Name	Formerly	Execution Date	Entity Type
AMERICAN STOCK TRANSFER & TRUST COMPANY, LLC D/B/A AST TRUST COMPANY (CANADA)		12/01/2021	Limited Liability Company: CANADA

## RECEIVING PARTY DATA

<b>Name:</b>	ECOBEE INC.
<b>Street Address:</b>	250 UNIVERSITY AVE, SUITE 400
<b>City:</b>	TORONTO, ONTARIO,
<b>State/Country:</b>	CANADA
<b>Postal Code:</b>	M5H 3E5
<b>Entity Type:</b>	Corporation: CANADA

## PROPERTY NUMBERS Total: 15

Property Type	Number	Word Mark
Registration Number:	3710918	ECOBEE
Registration Number:	4159889	GREEN MADE EASY
Registration Number:	4451834	ECOBEE SMART
Registration Number:	4212997	ECOBEE SMART THERMOSTAT
Registration Number:	4201387	ECOBEE EMS
Registration Number:	4757295	ECOBEE3
Registration Number:	4797795	FOR HOMES WITH MORE THAN ONE ROOM
Registration Number:	5509131	DONATE YOUR DATA
Registration Number:	5296228	
Registration Number:	6337508	ECOBEE4
Registration Number:	5778367	ECOBEE3 LITE
Registration Number:	6187512	WHOLE HOME VOICE
Registration Number:	6064701	ECOBEE SWITCH+
Registration Number:	6278298	SWITCH+

TRADEMARK

REEL: 007652 FRAME: 0744

900674382

OP \$390.00 3710918

Property Type	Number	Word Mark
Serial Number:	88845798	ECOBEE HAVEN

**CORRESPONDENCE DATA**

**Fax Number:**

*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.*

**Email:** IPDOCKET@FAEGREDRINKER.COM

**Correspondent Name:** Robert B. Leonard

**Address Line 1:** FAEGRE DRINKER BIDDLE & REATH LLP

**Address Line 2:** 2200 WELLS FARGO CENTER 90 S. SEVENTH ST

**Address Line 4:** MINNEAPOLIS, MINNESOTA 55402

**ATTORNEY DOCKET NUMBER:** 508458.5

**NAME OF SUBMITTER:** Erin N. Theroux

**SIGNATURE:** /Erin N. Theroux/

**DATE SIGNED:** 02/08/2022

**Total Attachments: 153**

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**RELEASE OF LIEN  
(USPTO)**

WHEREAS, pursuant to a Note Purchase Agreement dated as of May 5, 2020 (as amended, supplemented, restated or otherwise modified from time to time, the "**NPA**"), ecobee Inc., a Canadian corporation, (the "**Debtor**") issued secured convertible promissory notes (the "**Notes**") to certain lenders (the "**Lenders**").

AND WHEREAS pursuant to the NPA, ecobee Ltd., a Nevada corporation (the "**Guarantor**") entered into a Security Agreement dated as of May 5, 2020 (as amended, supplemented, restated or otherwise modified from time to time, the "**Security Agreement**", and together with the NPA and the Notes, the "**Loan Documents**") in favour of AMERICAN STOCK TRANSFER & TRUST COMPANY, LLC, as collateral agent (the "**Collateral Agent**") for and on behalf of the Lenders (referred to therein as the 'Investors') and granted a security interest in favour of the Collateral Agent for the benefit of the Lenders with respect to the Guarantor's interests in certain Collateral, including the Intellectual Property listed in Exhibit A attached hereto (the "**Intellectual Property Collateral**"), as security for its obligations to the Lenders under the NPA and the Notes.

AND WHEREAS capitalized terms used but not defined herein have the meanings assigned to them in the NPA.

AND WHEREAS, the Loan Documents were recorded in the U.S. Patent and Trademark Office on May 19, 2020, at Reel 6942 Frame 0280;

AND WHEREAS the Lenders and the Collateral Agent wish to release all of their interest in and to the Intellectual Property Collateral;

NOW THEREFORE, in consideration of the foregoing, and other good and valuable consideration, the receipt and adequacy of which are acknowledged, the Collateral Agent:

1. confirms that it has not assigned or otherwise disposed of its interest in and to the Intellectual Property Collateral;
2. hereby releases and discharges its full interest in and to the Intellectual Property Collateral, and the Loan Documents are hereby terminated and rendered null, void and without any further force or effect, provided that the indemnification provisions set forth in any Financing Documents will, subject to the terms thereof, continue to apply and be enforceable by the Collateral Agent in respect of its execution and delivery of this Release and Discharge of Security Interest and the other instruments and agreements provided for herein, and all actions or claims based upon any of the foregoing, and the Collateral Agent reserves the right to enforce, in respect of such execution, delivery, actions or claims, each and all of the indemnities enforceable by it under the applicable Financing Documents; and
3. agrees, at the sole cost and expense of the Debtor, to take such further actions and to execute and deliver such further documents as the Debtor may reasonably request to

effect and evidence this Release of Lien, including, without limitation, the execution and delivery of any filings, statements, amendments, recordations or other instruments required to maintain the applications or registrations of the Intellectual Property Collateral and record the chain of title accordingly with the U.S. Patent and Trademark Office.

[signature page follows]

IN WITNESS WHEREOF, the Collateral Agent has caused this Release of Lien to be duly executed by an authorized officer as of this 1<sup>st</sup> day of December, 2021.

AMERICAN STOCK TRANSFER &  
TRUST COMPANY, LLC, as Collateral

Agent

By: DocuSigned by:  
Paul Kim

Name: Paul Kim

Title: Assistant General Counsel

**NOTICE OF SECURITY INTEREST IN INTELLECTUAL PROPERTY**

**WHEREAS** the undersigned (the “**Debtor**”), is the owner of the registered intellectual property set forth on **Schedule A** attached hereto (collectively, the “**Intellectual Property**”);

**AND WHEREAS** pursuant to a Note Purchase Agreement dated as of the date hereof (as amended, supplemented, restated or otherwise modified from time to time, the “**NPA**”), the Debtor has issued secured convertible promissory notes (the “**Notes**”) to the Investors.

**AND WHEREAS** pursuant to the NPA, the Debtor has entered into a General Security Agreement dated as of May 5, 2020 (as amended, supplemented, restated or otherwise modified from time to time, the “**GSA**”) in favour of **AST TRUST COMPANY (CANADA)**, as collateral agent (the “**Agent**”) in favour of the Investors and granted a security interest in favour of the Agent with respect to the Debtor’s interests in the Intellectual Property, among other collateral, as security for its obligations to the Investors under the NPA and the Notes.

**AND WHEREAS** capitalized terms used but not defined herein have the meanings assigned to them in the NPA.

**NOW THEREFORE**, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, and in accordance with the terms and obligations set forth in the Security Documents, the Debtor hereby confirms the granting of a security interest and lien in the Intellectual Property to the Agent.

**THE DEBTOR** hereby certifies that the aforementioned information as it relates to the Debtor is true and accurate.

**[Signature Page Follows]**

**DATED:** May 5, 2020

**ECOBEE INC.**

By:

DocuSigned by:

*Stuart Lombard*

Name: Stuart Lombard

Title: Chief Executive Officer

I have the authority to bind the  
company.

## SCHEDULE A

## INTELLECTUAL PROPERTY

## TRADEMARKS – Canada

Mark	Filing Date	App. No.	Reg. No.	Reg. Date	Owner
ECOBEE & Design	01-Feb-08	1381717	TMA754845	08-Dec-09	ECOBEE INC.
ECOBEE	01-Feb-08	1381716	TMA737236	31-Mar-09	ECOBEE INC.
DATARHYTHM TECHNOLOGIES	20-Aug-12	1590783	TMA912159	24-Aug-15	ECOBEE INC.
DATARHYTHM	29-Aug-12	1592098	TMA913931	15-Sep-15	ECOBEE INC.
HOME IQ	29-Aug-12	1592099	TMA913939	15-Sep-15	ECOBEE INC.
ECOBEE3	10-Apr-14	1672336	TMA969873	3-May-15	ECOBEE INC.
FOR HOMES WITH MORE THAN ONE ROOM	10-Apr-14	1672337	TMA969566	1-May-15	ECOBEE INC.
ECOBEE3 LITE	10-Feb-17	1822346	TMA1012523	09-Jan-19	ECOBEE INC.
ECOBEE4 SMART THERMOSTAT	10-Feb-17	1822347	TMA1069407	14-Jan-20	ECOBEE INC.
ECOBEE4	10-Feb-17	1822350	TMA1064338	2019-11-26	ECOBEE INC.
ECOBEE3 LITE SMART THERMOSTAT	10-Feb-17	1822351	TMA1012526	09-Jan-19	ECOBEE INC.
WHOLE HOME VOICE	18-May-17	1838331	N/A	N/A	ECOBEE INC.
SWITCH+	5-Feb-18	1881441	N/A	N/A	ECOBEE INC.
ECOBEE SWITCH+	5-Feb-18	1881442	TMA1018537	2-Apr-19	ECOBEE INC.
E (design)	9-Mar-20	2016327	N/A	N/A	ECOBEE INC.
ECOBEE HAVEN	9-Mar-20	2016328	N/A	N/A	ECOBEE INC.
ECOBEE logo	9-Mar-20	2016330	N/A	N/A	ECOBEE INC.

## TRADEMARKS - U.S.A.

Mark	Filing Date	App. No.	Reg. No.	Reg. Date	Owner
GREEN MADE EASY	22-Nov-10	85/182,334	4,159,889	19-Jun-12	ECOBEE INC.
ECOBEE	6-Feb-08	77/390,082	3,710,918	17-Nov-09	ECOBEE INC.
ECOBEE (and Design)	6-Feb-08	77/390,141	3,795,396	1-Jun-10	ECOBEE INC.
DATARHYTHM	29-Aug-12	85/715,922	4,585,057	12-Aug-15	ECOBEE INC.
ECOBEE SMART THERMOSTAT	8-Dec-11	85/490,282	4,212,997	25-Sept-12	ECOBEE INC.
ECOBEE SMART	8-Dec-11	85/490,252	4,451,834	17-Dec-13	ECOBEE INC.
ECOBEE EMS	8-Apr-11	85/490,325	4,201,387	4-Sept-12	ECOBEE INC.
ECOBEE3	10-Apr-14	86/249,171	4,757,295	16-Jun-15	ECOBEE INC.
FOR HOMES WITH MORE THAN ONE ROOM	9-Jul-15	86/249,173	4,797,795	25-Aug-15	ECOBEE INC.
DONATE YOUR DATA	3-Jul-16	87/1,808,94	5,509,131	3-Jul-18	ECOBEE INC.
ECOBEE3 LITE	6-Mar-17	87,360,243	5,778,367	18-Jun-19	ECOBEE INC.
ECOBEE4	6-Mar-17	87/359,580	N/A	N/A	ECOBEE INC.
SWITCH+	8-Feb-18	87/790,524	N/A	N/A	ECOBEE INC.
WHOLE HOME VOICE	31-Aug-17	87/591,544	N/A	N/A	ECOBEE INC.
ECOBEE SWITCH+	8-FEB-18	87/790,509	N/A	N/A	ECOBEE INC.
ECOBEE HAVEN	24-MAR-20	88/845,798	N/A	N/A	ECOBEE INC.
Bee logo (Design)	6-Mar-17	87/359,562	5,296,228	26-Sep-17	ECOBEE INC.

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None.



## PATENTS

## PATENTS – CANADA

## Design

PK Reference	Country	Application Date	Title Text	Application Number	Registration Number	Registration Date	Status
D1387CA00	CANADA	2017-08-31	THERMOSTAT DEVICE WITH TRIM PLATE	176743	176743	2018-07-05	ISSUED
D1389CA00	CANADA	2017-10-27	SWITCH WITH TRIM PLATE	177893	177893	2019-04-23	ISSUED
D1459CA00	CANADA	2018-04-27	SWITCH WITH TRIM PLATE	181086	181086	2019-04-23	ISSUED
D1507CA00	CANADA	2019-06-27	REMOTE SENSOR DEVICE	188481			PENDING

## Patent

PK Reference	Country	Application Date	Title Text	Application Number	Registration Number	Registration Date	Status
P6163CA00	CANADA	2017-10-02	CONTROL DEVICE WITH CURRENT PROTECTED SOLID STATE RELAYS	2981023			ANNUITY DEADLINE
P6912CA00	CANADA	2019-11-08	COMPUTERIZED DEVICE WITH VOICE COMMAND INPUT CAPABILITY	3063045			PENDING

PKC Reference	Country	Application Date	Title Text	Application Number	Registration Number	Registration Date	Status
P7163CA00	CANADA	2018-08-24	HVAC SIGNALING OVER A TWO-WIRE CONNECTION	3015330			ANNUITY DEADLINE
P7207CA00	CANADA	2018-09-24	LEAK DETECTOR WITH SENSING CABLE	3018288			ANNUITY DEADLINE
P7562CA00	CANADA	2019-03-19	SMART LIGHT SWITCH WITH TEMPERATURE SENSING	3037165			PENDING
P7564CA00	CANADA	2019-03-19	SMART LIGHT SWITCH WITH INTEGRATED SCHEDULING	3037177			PENDING
P7565CA00	CANADA	2019-03-19	SMART LIGHT SWITCH WITH VACATION MODE	3037170			PENDING
P7614CA00	CANADA	2019-04-05	CONTROL DEVICE FOR HVAC FAN COIL UNITS	3039300			PENDING

**PATENTS – U.S.A.**

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Notice of Security Interest in Intellectual Property

## Design

	Country	Application Date	Title Text	Application Number	Registration Number	Registration Date	Status
<b>D1194US00</b>	UNITED STATES	2013-10-22	THERMOSTAT DEVICE WITH LOW PROFILE TRIM PLATE	29/470529	D734178	2015-07-14	ISSUED
<b>D1387US00</b>	UNITED STATES	2017-04-07	THERMOSTAT DEVICE	29/599864	D833893	2018-11-20	ISSUED
<b>D1387US01</b>	UNITED STATES	2018-09-21	THERMOSTAT DEVICE WITH TRIM PLATE	29/664127			ISSUED
<b>D1389US01</b>	UNITED STATES	2018-03-21	SWITCH WITH TRIM PLATE	29/641301			ISSUED
<b>D1389US02</b>	UNITED STATES	2019-05-23	SWITCH WITH TRIM PLATE	29/692228			RESPONSE TO OA
<b>D1507US00</b>	UNITED STATES	2018-12-31	REMOTE SENSOR DEVICE	29/675346			DECS/ASSIGNMENTS TO BE FILED
<b>D1512US00</b>	UNITED STATES	2019-02-13	CAMERA DEVICE AND STAND	29/680117			PENDING
<b>D1516US00</b>	UNITED STATES	2019-02-28	SWITCH WITH TRIM PLATE	29/681876			ISSUED
<b>D1574US00</b>	UNITED STATES	2020-01-10	CONTACT SENSORS FOR DOORS AND WINDOWS	29/720269			CONVENTION DEADLINE

## Patent

PKR Reference	Country	Application Date	Title Text	Application Number	Registration Number	Registration Date	Status
P3212US00	UNITED STATES	2011-07-11	HVAC CONTROLLER WITH PREDICTIVE SET-POINT CONTROL	13/179770	9696052	2017-07-04	ISSUED
P3213US00	UNITED STATES	2011-07-11	HVAC CONTROLLER WITH DYNAMIC TEMPERATURE COMPENSATION	13/179912	9016593	2015-04-28	ISSUED
P3396US00	UNITED STATES	2012-01-10	HVAC CONTROLLER WITH DEVICE SCHEDULING PROGRAM	13/347105	8965585	2015-02-24	ISSUED
P6163US00	UNITED STATES	2016-10-13	CONTROL DEVICE WITH CURRENT PROTECTED SOLID STATE RELAYS	15/292648	10215432	2019-02-26	ISSUED
P6163US01	UNITED STATES	2018-01-24	CONTROL DEVICE WITH BULK HEATING COMPENSATION	15/878977			ISSUED
P6163US02	UNITED STATES	2019-07-22	CONTROL DEVICE WITH CURRENT PROTECTED SOLID STATE RELAYS	16/518102			PENDING

PCK Reference	Country	Application Date	Title Text	Application Number	Registration Number	Registration Date	Status
P6912US00	UNITED STATES	2017-05-10	COMPUTERIZED DEVICE WITH VOICE COMMAND INPUT CAPABILITY	15/591188	10311870	2019-06-04	ISSUED
P6912US01	UNITED STATES	2019-04-23	COMPUTERIZED DEVICE WITH VOICE COMMAND INPUT CAPABILITY	16/391406			FINAL FEE DEADLINE
P7163US01	UNITED STATES	2018-08-24	HVAC SIGNALING OVER A TWO-WIRE CONNECTION	16/111384			RESPONSE TO OA
P7207US01	UNITED STATES	2018-09-24	LEAK DETECTOR WITH SENSING CABLE	16/139548			DECS/TO BE FILED
P7207US01	UNITED STATES	2018-09-24	LEAK DETECTOR WITH SENSING CABLE	16/139548			RESPONSE TO OA
P7562US01	UNITED STATES	2019-03-19	SMART LIGHT SWITCH WITH TEMPERATURE SENSING	16/357762			PENDING
P7564US01	UNITED STATES	2019-03-19	SMART LIGHT SWITCH WITH INTEGRATED SCHEDULING	16/357912			RESPONSE TO FINAL OA (2-MONTH DEADLINE)
P7565US01	UNITED STATES	2019-03-19	SMART LIGHT SWITCH WITH VACATION MODE	16/357989			FINAL FEE DEADLINE

PCK Reference	Country	Application Date	Title Text	Application Number	Registration Number	Registration Date	Status
P7565US01	UNITED STATES	2019-03-19	SMART LIGHT SWITCH WITH VACATION MODE	16/357989			DECLARATION/ ASSIGNMENT TO BE FILED
P7614US01	UNITED STATES	2019-04-05	CONTROL DEVICE FOR HVAC FAN COIL UNITS	16/376029			DECLS/ASSIGNME NTS TO BE FILED
P8343US00	UNITED STATES	2008-06-09	SYSTEM AND METHOD TO ROUTE AIRFLOW USING DYNAMICALLY CHANGING DUCTS	12/135239	9008844	2015-04-14	ISSUED
P8344US00	UNITED STATES	2015-11-23	DYNAMIC CONTROL OF SMART HOME USING WEARABLE DEVICE	14/948674	10250403	2019-04-02	ISSUED
P8344US01	UNITED STATES	2016-02-09	DYNAMIC CONTROL OF SMART HOME USING WEARABLE DEVICE	15/018943	9473321	2016-10-18	ANNUITY DEADLINE
P8344US02	UNITED STATES	2016-08-10	DYNAMIC CONTROL OF SMART HOME USING WEARABLE DEVICE	15/233366	9909772	2018-03-06	ISSUED

PCK Reference	Country	Application Date	Title Text	Application Number	Registration Number	Registration Date	Status
P8344US03	UNITED STATES	2017-08-14	DYNAMIC CONTROL OF SMART HOME USING WEARABLE DEVICE	15/675819	10072866	2018-09-11	ISSUED
P8344US04	UNITED STATES	2019-02-28	DYNAMIC CONTROL OF SMART HOME USING WEARABLE DEVICE	16/289051			RESPONSE TO OA
P8345US00	UNITED STATES	2012-08-01	MULTI-DIMENSIONAL HEATING AND COOLING SYSTEM	13/564006	9152154	2015-10-06	ISSUED
P8346US00	UNITED STATES	2012-07-02	INTELLIGENT AND COORDINATED LIGHTING OF A LIGHTING DEVICE	13/540012	9161419	2015-10-13	ISSUED
P8346US01	UNITED STATES	2015-08-06	INTELLIGENT AND COORDINATED LIGHTING OF A LIGHTING DEVICE	14/819555	9854645	2117-12-26	ISSUED
P8348US00	UNITED STATES	2013-01-30	ENTRY TECHNOLOGY FOR BUILDING AUTOMATION	13/754824	9196103	2015-11-24	ISSUED
P8348US01	UNITED STATES	2015-10-21	ENTRY TECHNOLOGY FOR BUILDING AUTOMATION	14/918882	9982472	2018-05-29	ISSUED

PCK Reference	Country	Application Date	Title Text	Application Number	Registration Number	Registration Date	Status
P8348US02	UNITED STATES	2018-03-08	ENTRY TECHNOLOGY FOR BUILDING AUTOMATION	15/915924	10309145	2019-06-04	ISSUED
P8349US00	UNITED STATES	2012-04-13	CONTROLLING COMMUNICATI ON AMONG MULTIPLE INDUSTRIAL CONTROL SYSTEMS	13/446172	8872638	2014-10-28	ISSUED
P8349US01	UNITED STATES	2012-09-06	CONTROLLING COMMUNICATI ON AMONG MULTIPLE INDUSTRIAL CONTROL SYSTEMS	13/604678	8732270	2014-05-20	ISSUED
P8356US00	UNITED STATES	2012-11-13	AUTOMATED AUTHORIZATIO N TO ACCESS SURVEILLANCE VIDEO BASED ON PRE-SPECIFIED EVENTS	13/675429	9041812	2015-05-26	ISSUED
P8356US01	UNITED STATES	2013-01-25	AUTOMATED AUTHORIZATIO N TO ACCESS SURVEILLANCE VIDEO BASED ON PRE-SPECIFIED EVENTS	13/675429	9041812	2015-11-17	ISSUED



PCK Reference	Country	Application Date	Title Text	Application Number	Registration Number	Registration Date	Status
P8359US00	UNITED STATES	2009-11-20	SYSTEM FOR ASSISTING WITH EXECUTION OF ACTIONS IN RESPONSE TO DETECTED EVENTS, METHOD FOR ASSISTING WITH EXECUTION OF ACTIONS IN RESPONSE TO DETECTED EVENTS, ASSISTING DEVICE, AND COMPUTER PROGRAM	12/622455	8516499	2013-08-20	ISSUED
P8362US00	UNITED STATES	2005-10-24	SYSTEM, METHOD AND PROGRAM PRODUCT FOR HOUSE AUTOMATION	11/257290	7308321	2007-12-11	ISSUED
P8366US00	UNITED STATES	2009-05-27	MONITORING PATTERNS OF MOTION	12/473181	8081082	2011-12-20	ISSUED
P8367US00	UNITED STATES	2014-09-30	REMOTE OBJECT SENSING IN VIDEO	14/502110	9270940	2016-02-23	ISSUED

PCK Reference	Country	Application Date	Title Text	Application Number	Registration Number	Registration Date	Status
P8368US00	UNITED STATES	2006-06-16	METHOD FOR SPATIO-TEMPORAL EVENT DETECTION USING COMPOSITE DEFINITIONS FOR CAMERA SYSTEMS	11/455210	7468662	2008-12-23	ISSUED
P8368US01	UNITED STATES	2008-06-04	METHOD FOR SPATIO-TEMPORAL EVENT DETECTION USING COMPOSITE DEFINITIONS FOR CAMERA SYSTEMS	12/132890	8134457	2012-03-13	ISSUED
P8375US00	UNITED STATES	2012-11-13	DISTRIBUTED CONTROL OF A HETEROGENEOUS VIDEO SURVEILLANCE NETWORK	13/675348	9681103	2017-06-13	ANNUITY DEADLINE
P8375US01	UNITED STATES	2013-01-25	DISTRIBUTED CONTROL OF A HETEROGENEOUS VIDEO SURVEILLANCE NETWORK	13/751013	9681104	2017-06-13	ANNUITY DEADLINE
P8375US02	UNITED STATES	2017-03-22	DISTRIBUTED CONTROL OF A HETEROGENEOUS VIDEO SURVEILLANCE NETWORK	15/465756			PENDING

PCK Reference	Country	Application Date	Title Text	Application Number	Registration Number	Registration Date	Status
P8376US00	UNITED STATES	2009-04-08	GROUP AWARE TRACKING OF PERSONAL PROPERTY WITHIN A BOUNDED ZONE	12/420652	8164443	2012-04-24	ISSUED
P8377US00	UNITED STATES	2007-12-10	NOTIFYING USERS OF DEVICE EVENTS IN A NETWORKED ENVIRONMENT	11/953554	7432805	2008-10-07	ISSUED
P8377US01	UNITED STATES	2008-07-24	NOTIFYING USERS OF DEVICE EVENTS IN A NETWORKED ENVIRONMENT	12/179147	7791472	2010-09-07	ISSUED
P8378US00	UNITED STATES	2014-05-22	IDENTIFYING A CHANGE IN A HOME ENVIRONMENT	14/284581	9355547	2016-05-31	ISSUED
P8378US01	UNITED STATES	2016-05-04	IDENTIFYING A CHANGE IN A HOME ENVIRONMENT	15/146378	9978290	2018-05-22	ISSUED
P8378US02	UNITED STATES	2016-05-04	IDENTIFYING A CHANGE IN A HOME ENVIRONMENT	15/146330	9984590	2018-05-29	ISSUED

**TRADEMARK**  
**REEL: 007652 FRAME: 0770**

PCK Reference	Country	Application Date	Title Text	Application Number	Registration Number	Registration Date	Status
P8404US00	UNITED STATES	2012-10-08	MONITORING USER POSITION TO DETERMINE A TIME FOR PROVIDING A SPECIFIED STATE AT A USER PREMISES	13/647234	9377791	2016-06-28	ISSUED
P8405US00	UNITED STATES	2015-12-30	PRO-ACTIVE BUILDING PROTECTION SYSTEM	14/985068	9382747	2016-07-05	ISSUED
P8405US01	UNITED STATES	2016-05-12	PRO-ACTIVE BUILDING PROTECTION SYSTEM	15/152606	9483933	2016-11-01	ANNUITY DEADLINE
P8407US00	UNITED STATES	2004-06-02	METHOD AND APPARATUS FOR REMOTE COMMAND, CONTROL AND DIAGNOSTICS OF SYSTEMS USING CONVERSATIONAL OR AUDIO INTERFACE	10/858083	8224649	2012-07-17	ISSUED
P8408US00	UNITED STATES	2012-11-14	DYNAMIC TEMPERATURE CONTROL FOR A ROOM CONTAINING A GROUP OF PEOPLE	13/676545	9465392	2016-10-11	ISSUED

**TRADEMARK**  
**REEL: 007652 FRAME: 0771**

PCK Reference	Country	Application Date	Title Text	Application Number	Registration Number	Registration Date	Status
P8409US00	UNITED STATES	2006-02-07	METHOD FOR PROVIDING A BROADCAST ENCRYPTON BASED HOME SECURITY SYSTEM	11/348902	8325923	2012-12-04	ISSUED
P8409US01	UNITED STATES	2012-09-14	METHOD FOR PROVIDING A BROADCAST ENCRYPTON BASED HOME SECURITY SYSTEM	13/620042	8724811	2014-05-13	ISSUED
P8410US00	UNITED STATES	2009-03-12	VIDEO PATTERN RECOGNITION FOR AUTOMATING EMERGENCY SERVICE INCIDENT AWARENESS AND RESPONSE	12/402626	8368754	2013-02-05	ANNUITY DEADLINE
P8411US00	UNITED STATES	2016-03-14	INTELLIGENT THERMOSTAT CONTROL SYSTEM	15/068921	9574786	2017-02-21	ANNUITY DEADLINE
P8411US01	UNITED STATES	2016-11-11	INTELLIGENT THERMOSTAT CONTROL SYSTEM	15/349114	9772115	2017-09-26	ISSUED
P8412US00	UNITED STATES	2013-03-14	INTERACTIVE ENERGY DEVICE FOR ENVIRONMENTAL STEWARDSHIP	13/826419	9599973	2017-03-21	ANNUITY DEADLINE

PCK Reference	Country	Application Date	Title Text	Application Number	Registration Number	Registration Date	Status
P8412US01	UNITED STATES	2013-08-20	INTERACTIVE ENERGY DEVICE FOR ENVIRONMENTAL STEWARDSHIP	13/971251	9733630	2017-08-15	ISSUED
P8413US00	UNITED STATES	2016-09-21	SURVEILLANCE DETECTION BASED ON AN IDENTIFICATION OF A CARRIED MOBILE DEVICE	15/271362	9693181	2017-06-27	ANNUITY DEADLINE
P8414US01	UNITED STATES	2005-07-28	SYSTEM AND METHOD FOR ALARM GENERATION BASED ON THE DETECTION OF THE PRESENCE OF A PERSON	11/495334	7554444	2009-06-30	ANNUITY DEADLINE
P8416US00	UNITED STATES	2016-04-28	FINE TUNING APPLICATION BEHAVIOR USING APPLICATION ZONES	15/141606	9733996	2017-08-15	ISSUED
P8417US00	UNITED STATES	2016-10-26	AUTOMATED NOTIFICATION MULTING RESPONSIVE TO PREDICTED LOCATION	15/334330	9756607	2017-09-05	ISSUED

PCK Reference	Country	Application Date	Title Text	Application Number	Registration Number	Registration Date	Status
P8418US00	UNITED STATES	2011-02-28	MANAGING EMERGENCY RESPONSE SERVICES USING MOBILE COMMUNICATION DEVICES	13/036612	8576066	2013-11-05	ISSUED
P8419US00	UNITED STATES	2016-10-24	LOCATION SPECIFIC IMAGE BASED AUTHENTICATION	15/332501	9811653	2017-11-07	ISSUED
P8419US01	UNITED STATES	2017-10-03	LOCATION SPECIFIC IMAGE BASED AUTHENTICATION	15/723468	10055569	2018-08-21	ISSUED
P8421US00	UNITED STATES	2007-01-11	AMBIENT PRESENTATION OF SURVEILLANCE DATA	11/622132	8704893	2014-04-22	ISSUED
P8421US01	UNITED STATES	2012-08-16	AMBIENT PRESENTATION OF SURVEILLANCE DATA	13/587038	8860812	2014-10-14	ISSUED

PCK Reference	Country	Application Date	Title Text	Application Number	Registration Number	Registration Date	Status
P8422US00	UNITED STATES	2012-07-31	METHOD FOR ON-DEMAND ENERGY SAVINGS BY LOWERING POWER USAGE OF AT LEAST ONE STORAGE DEVICE IN A MULTI-TIERED STORAGE SYSTEM	13/562626	8700932	2014-04-14	ISSUED
P8423US00	UNITED STATES	2011-03-21	CONTROLLING AND MINIMIZING ELECTRICAL POWER CONSUMED BY ELECTRICAL COMPONENTS CONNECTED TO A NETWORKED COMPUTING ENVIRONMENT	13/052754	8738943	2014-05-27	ISSUED
P8424US00	UNITED STATES	2012-01-11	MANAGING ENVIRONMENTAL CONTROL SYSTEM EFFICIENCY	13/348347	9024765	2015-05-05	ISSUED
P8425US00	UNITED STATES	2006-06-30	APPARATUS AND METHOD FOR MEASURING THE ACCURATE POSITION OF MOVING OBJECTS IN AN INDOOR ENVIRONMENT	11/428019	7761233	2010-07-20	ISSUED

**TRADEMARK**  
**REEL: 007652 FRAME: 0775**



PCK Reference	Country	Application Date	Title Text	Application Number	Registration Number	Registration Date	Status
P8429US00	UNITED STATES	2012-11-13	PROVIDING EMERGENCY ACCESS TO SURVEILLANCE VIDEO	13/675391	8934754	2015-01-13	ISSUED
P8429US01	UNITED STATES	2013-01-25	PROVIDING EMERGENCY ACCESS TO SURVEILLANCE VIDEO	13/751023	9071807	2015-06-30	ISSUED
P8430US00	UNITED STATES	2007-01-30	PERVASIVE NETWORK FOR ENVIRONMENTAL SENSING	11/668604	8762060	2014-06-24	ISSUED
P8430US01	UNITED STATES	2009-11-06	PERVASIVE NETWORK FOR ENVIRONMENTAL SENSING	12/613758	8805613	2014-08-12	ISSUED
P8898US00	UNITED STATES	2019-09-09	LIGHT SWITCH SYSTEM	62/897466			CONVENTION DEADLINE
P9481US00	UNITED STATES	2020-03-26	THERMOSTAT DEVICE WITH IMPROVED ENERGY OPTIMIZATION	62/994937			

**NOTICE OF SECURITY INTEREST IN INTELLECTUAL PROPERTY**

**WHEREAS** the undersigned (the “**Debtor**”), is the owner of the registered intellectual property set forth on **Schedule A** attached hereto (collectively, the “**Intellectual Property**”);

**AND WHEREAS** pursuant to a Note Purchase Agreement dated as of the date hereof (as amended, supplemented, restated or otherwise modified from time to time, the “**NPA**”), the Debtor has issued secured convertible promissory notes (the “**Notes**”) to the Investors.

**AND WHEREAS** pursuant to the NPA, the Debtor has entered into a General Security Agreement dated as of May 5, 2020 (as amended, supplemented, restated or otherwise modified from time to time, the “**GSA**”) in favour of **AST TRUST COMPANY (CANADA)**, as collateral agent (the “**Agent**”) in favour of the Investors and granted a security interest in favour of the Agent with respect to the Debtor’s interests in the Intellectual Property, among other collateral, as security for its obligations to the Investors under the NPA and the Notes.

**AND WHEREAS** capitalized terms used but not defined herein have the meanings assigned to them in the NPA.

**NOW THEREFORE**, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, and in accordance with the terms and obligations set forth in the Security Documents, the Debtor hereby confirms the granting of a security interest and lien in the Intellectual Property to the Agent.

**THE DEBTOR** hereby certifies that the aforementioned information as it relates to the Debtor is true and accurate.

**[Signature Page Follows]**

**DATED:** May 5, 2020

**ECOBEE INC.**

By:

DocuSigned by:

*Stuart Lombard*

Name: Stuart Lombard

Title: Chief Executive Officer

I have the authority to bind the company.

## SCHEDULE A

## INTELLECTUAL PROPERTY

## TRADEMARKS – Canada

Mark	Filing Date	App. No.	Reg. No.	Reg. Date	Owner
ECOBEE & Design	01-Feb-08	1381717	TMA754845	08-Dec-09	ECOBEE INC.
ECOBEE	01-Feb-08	1381716	TMA737236	31-Mar-09	ECOBEE INC.
DATARHYTHM TECHNOLOGIES	20-Aug-12	1590783	TMA912159	24-Aug-15	ECOBEE INC.
DATARHYTHM	29-Aug-12	1592098	TMA913931	15-Sep-15	ECOBEE INC.
HOME IQ	29-Aug-12	1592099	TMA913939	15-Sep-15	ECOBEE INC.
ECOBEE3	10-Apr-14	1672336	TMA969873	3-May-15	ECOBEE INC.
FOR HOMES WITH MORE THAN ONE ROOM	10-Apr-14	1672337	TMA969566	1-May-15	ECOBEE INC.
ECOBEE3 LITE	10-Feb-17	1822346	TMA1012523	09-Jan-19	ECOBEE INC.
ECOBEE4 SMART THERMOSTAT	10-Feb-17	1822347	TMA1069407	14-Jan-20	ECOBEE INC.
ECOBEE4	10-Feb-17	1822350	TMA1064338	2019-11-26	ECOBEE INC.
ECOBEE3 LITE SMART THERMOSTAT	10-Feb-17	1822351	TMA1012526	09-Jan-19	ECOBEE INC.
WHOLE HOME VOICE	18-May-17	1838331	N/A	N/A	ECOBEE INC.
SWITCH+	5-Feb-18	1881441	N/A	N/A	ECOBEE INC.
ECOBEE SWITCH+	5-Feb-18	1881442	TMA1018537	2-Apr-19	ECOBEE INC.
E (design)	9-Mar-20	2016327	N/A	N/A	ECOBEE INC.
ECOBEE HAVEN	9-Mar-20	2016328	N/A	N/A	ECOBEE INC.
ECOBEE logo	9-Mar-20	2016330	N/A	N/A	ECOBEE INC.

## TRADEMARKS - U.S.A.

Mark	Filing Date	App. No.	Reg. No.	Reg. Date	Owner
GREEN MADE EASY	22-Nov-10	85/182,334	4,159,889	19-Jun-12	ECOBEE INC.
ECOBEE	6-Feb-08	77/390,082	3,710,918	17-Nov-09	ECOBEE INC.
ECOBEE (and Design)	6-Feb-08	77/390,141	3,795,396	1-Jun-10	ECOBEE INC.
DATARHYTHM	29-Aug-12	85/715,922	4,585,057	12-Aug-15	ECOBEE INC.
ECOBEE SMART THERMOSTAT	8-Dec-11	85/490,282	4,212,997	25-Sept-12	ECOBEE INC.
ECOBEE SMART	8-Dec-11	85/490,252	4,451,834	17-Dec-13	ECOBEE INC.
ECOBEE EMS	8-Apr-11	85/490,325	4,201,387	4-Sept-12	ECOBEE INC.
ECOBEE3	10-Apr-14	86/249,171	4,757,295	16-Jun-15	ECOBEE INC.
FOR HOMES WITH MORE THAN ONE ROOM	9-Jul-15	86/249,173	4,797,795	25-Aug-15	ECOBEE INC.
DONATE YOUR DATA	3-Jul-16	87/1,808,94	5,509,131	3-Jul-18	ECOBEE INC.
ECOBEE3 LITE	6-Mar-17	87,360,243	5,778,367	18-Jun-19	ECOBEE INC.
ECOBEE4	6-Mar-17	87/359,580	N/A	N/A	ECOBEE INC.
SWITCH+	8-Feb-18	87/790,524	N/A	N/A	ECOBEE INC.
WHOLE HOME VOICE	31-Aug-17	87/591,544	N/A	N/A	ECOBEE INC.
ECOBEE SWITCH+	8-FEB-18	87/790,509	N/A	N/A	ECOBEE INC.
ECOBEE HAVEN	24-MAR-20	88/845,798	N/A	N/A	ECOBEE INC.
Bee logo (Design)	6-Mar-17	87/359,562	5,296,228	26-Sep-17	ECOBEE INC.

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None.

## PATENTS

## PATENTS – CANADA

## Design

PKK Reference	Country	Application Date	Title Text	Application Number	Registration Number	Registration Date	Status
D1387CA00	CANADA	2017-08-31	THERMOSTAT DEVICE WITH TRIM PLATE	176743	176743	2018-07-05	ISSUED
D1389CA00	CANADA	2017-10-27	SWITCH WITH TRIM PLATE	177893	177893	2019-04-23	ISSUED
D1459CA00	CANADA	2018-04-27	SWITCH WITH TRIM PLATE	181086	181086	2019-04-23	ISSUED
D1507CA00	CANADA	2019-06-27	REMOTE SENSOR DEVICE	188481			PENDING

## Patent

PKK Reference	Country	Application Date	Title Text	Application Number	Registration Number	Registration Date	Status
P6163CA00	CANADA	2017-10-02	CONTROL DEVICE WITH CURRENT PROTECTED SOLID STATE RELAYS	2981023			ANNUITY DEADLINE
P6912CA00	CANADA	2019-11-08	COMPUTERIZED DEVICE WITH VOICE COMMAND INPUT CAPABILITY	3063045			PENDING

PKC Reference	Country	Application Date	Title Text	Application Number	Registration Number	Registration Date	Status
P7163CA00	CANADA	2018-08-24	HVAC SIGNALING OVER A TWO-WIRE CONNECTION	3015330			ANNUITY DEADLINE
P7207CA00	CANADA	2018-09-24	LEAK DETECTOR WITH SENSING CABLE	3018288			ANNUITY DEADLINE
P7562CA00	CANADA	2019-03-19	SMART LIGHT SWITCH WITH TEMPERATURE SENSING	3037165			PENDING
P7564CA00	CANADA	2019-03-19	SMART LIGHT SWITCH WITH INTEGRATED SCHEDULING	3037177			PENDING
P7565CA00	CANADA	2019-03-19	SMART LIGHT SWITCH WITH VACATION MODE	3037170			PENDING
P7614CA00	CANADA	2019-04-05	CONTROL DEVICE FOR HVAC FAN COIL UNITS	3039300			PENDING

**PATENTS – U.S.A.**

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## Design

	Country	Application Date	Title Text	Application Number	Registration Number	Registration Date	Status
<b>D1194US00</b>	UNITED STATES	2013-10-22	THERMOSTAT DEVICE WITH LOW PROFILE TRIM PLATE	29/470529	D734178	2015-07-14	ISSUED
<b>D1387US00</b>	UNITED STATES	2017-04-07	THERMOSTAT DEVICE	29/599864	D833893	2018-11-20	ISSUED
<b>D1387US01</b>	UNITED STATES	2018-09-21	THERMOSTAT DEVICE WITH TRIM PLATE	29/664127			ISSUED
<b>D1389US01</b>	UNITED STATES	2018-03-21	SWITCH WITH TRIM PLATE	29/641301			ISSUED
<b>D1389US02</b>	UNITED STATES	2019-05-23	SWITCH WITH TRIM PLATE	29/692228			RESPONSE TO OA
<b>D1507US00</b>	UNITED STATES	2018-12-31	REMOTE SENSOR DEVICE	29/675346			DECS/ASSIGNMENTS TO BE FILED
<b>D1512US00</b>	UNITED STATES	2019-02-13	CAMERA DEVICE AND STAND	29/680117			PENDING
<b>D1516US00</b>	UNITED STATES	2019-02-28	SWITCH WITH TRIM PLATE	29/681876			ISSUED
<b>D1574US00</b>	UNITED STATES	2020-01-10	CONTACT SENSORS FOR DOORS AND WINDOWS	29/720269			CONVENTION DEADLINE

## Patent

Patent Reference	Country	Application Date	Title Text	Application Number	Registration Number	Registration Date	Status
P3212US00	UNITED STATES	2011-07-11	HVAC CONTROLLER WITH PREDICTIVE SET-POINT CONTROL	13/179770	9696052	2017-07-04	ISSUED
P3213US00	UNITED STATES	2011-07-11	HVAC CONTROLLER WITH DYNAMIC TEMPERATURE COMPENSATION	13/179912	9016593	2015-04-28	ISSUED
P3396US00	UNITED STATES	2012-01-10	HVAC CONTROLLER WITH DEVICE SCHEDULING PROGRAM	13/347105	8965585	2015-02-24	ISSUED
P6163US00	UNITED STATES	2016-10-13	CONTROL DEVICE WITH CURRENT PROTECTED SOLID STATE RELAYS	15/292648	10215432	2019-02-26	ISSUED
P6163US01	UNITED STATES	2018-01-24	CONTROL DEVICE WITH BULK HEATING COMPENSATION	15/878977			ISSUED
P6163US02	UNITED STATES	2019-07-22	CONTROL DEVICE WITH CURRENT PROTECTED SOLID STATE RELAYS	16/518102			PENDING

PCK Reference	Country	Application Date	Title Text	Application Number	Registration Number	Registration Date	Status
P6912US00	UNITED STATES	2017-05-10	COMPUTERIZED DEVICE WITH VOICE COMMAND INPUT CAPABILITY	15/591188	10311870	2019-06-04	ISSUED
P6912US01	UNITED STATES	2019-04-23	COMPUTERIZED DEVICE WITH VOICE COMMAND INPUT CAPABILITY	16/391406			FINAL FEE DEADLINE
P7163US01	UNITED STATES	2018-08-24	HVAC SIGNALING OVER A TWO-WIRE CONNECTION	16/111384			RESPONSE TO OA
P7207US01	UNITED STATES	2018-09-24	LEAK DETECTOR WITH SENSING CABLE	16/139548			DECS/TO BE FILED
P7207US01	UNITED STATES	2018-09-24	LEAK DETECTOR WITH SENSING CABLE	16/139548			RESPONSE TO OA
P7562US01	UNITED STATES	2019-03-19	SMART LIGHT SWITCH WITH TEMPERATURE SENSING	16/357762			PENDING
P7564US01	UNITED STATES	2019-03-19	SMART LIGHT SWITCH WITH INTEGRATED SCHEDULING	16/357912			RESPONSE TO FINAL OA (2-MONTH DEADLINE)
P7565US01	UNITED STATES	2019-03-19	SMART LIGHT SWITCH WITH VACATION MODE	16/357989			FINAL FEE DEADLINE

PCK Reference	Country	Application Date	Title Text	Application Number	Registration Number	Registration Date	Status
P7565US01	UNITED STATES	2019-03-19	SMART LIGHT SWITCH WITH VACATION MODE	16/357989			DECLARATION/ ASSIGNMENT TO BE FILED
P7614US01	UNITED STATES	2019-04-05	CONTROL DEVICE FOR HVAC FAN COIL UNITS	16/376029			DECLS/ASSIGNME NTS TO BE FILED
P8343US00	UNITED STATES	2008-06-09	SYSTEM AND METHOD TO ROUTE AIRFLOW USING DYNAMICALLY CHANGING DUCTS	12/135239	9008844	2015-04-14	ISSUED
P8344US00	UNITED STATES	2015-11-23	DYNAMIC CONTROL OF SMART HOME USING WEARABLE DEVICE	14/948674	10250403	2019-04-02	ISSUED
P8344US01	UNITED STATES	2016-02-09	DYNAMIC CONTROL OF SMART HOME USING WEARABLE DEVICE	15/018943	9473321	2016-10-18	ANNUITY DEADLINE
P8344US02	UNITED STATES	2016-08-10	DYNAMIC CONTROL OF SMART HOME USING WEARABLE DEVICE	15/233366	9909772	2018-03-06	ISSUED

PCK Reference	Country	Application Date	Title Text	Application Number	Registration Number	Registration Date	Status
P8344US03	UNITED STATES	2017-08-14	DYNAMIC CONTROL OF SMART HOME USING WEARABLE DEVICE	15/675819	10072866	2018-09-11	ISSUED
P8344US04	UNITED STATES	2019-02-28	DYNAMIC CONTROL OF SMART HOME USING WEARABLE DEVICE	16/289051			RESPONSE TO OA
P8345US00	UNITED STATES	2012-08-01	MULTI-DIMENSIONAL HEATING AND COOLING SYSTEM	13/564006	9152154	2015-10-06	ISSUED
P8346US00	UNITED STATES	2012-07-02	INTELLIGENT AND COORDINATED LIGHTING OF A LIGHTING DEVICE	13/540012	9161419	2015-10-13	ISSUED
P8346US01	UNITED STATES	2015-08-06	INTELLIGENT AND COORDINATED LIGHTING OF A LIGHTING DEVICE	14/819555	9854645	2117-12-26	ISSUED
P8348US00	UNITED STATES	2013-01-30	ENTRY TECHNOLOGY FOR BUILDING AUTOMATION	13/754824	9196103	2015-11-24	ISSUED
P8348US01	UNITED STATES	2015-10-21	ENTRY TECHNOLOGY FOR BUILDING AUTOMATION	14/918882	9982472	2018-05-29	ISSUED

PCK Reference	Country	Application Date	Title Text	Application Number	Registration Number	Registration Date	Status
P8348US02	UNITED STATES	2018-03-08	ENTRY TECHNOLOGY FOR BUILDING AUTOMATION	15/915924	10309145	2019-06-04	ISSUED
P8349US00	UNITED STATES	2012-04-13	CONTROLLING COMMUNICATI ON AMONG MULTIPLE INDUSTRIAL CONTROL SYSTEMS	13/446172	8872638	2014-10-28	ISSUED
P8349US01	UNITED STATES	2012-09-06	CONTROLLING COMMUNICATI ON AMONG MULTIPLE INDUSTRIAL CONTROL SYSTEMS	13/604678	8732270	2014-05-20	ISSUED
P8356US00	UNITED STATES	2012-11-13	AUTOMATED AUTHORIZATIO N TO ACCESS SURVEILLANCE VIDEO BASED ON PRE-SPECIFIED EVENTS	13/675429	9041812	2015-05-26	ISSUED
P8356US01	UNITED STATES	2013-01-25	AUTOMATED AUTHORIZATIO N TO ACCESS SURVEILLANCE VIDEO BASED ON PRE-SPECIFIED EVENTS	13/675429	9041812	2015-11-17	ISSUED

PCK Reference	Country	Application Date	Title Text	Application Number	Registration Number	Registration Date	Status
P8359US00	UNITED STATES	2009-11-20	SYSTEM FOR ASSISTING WITH EXECUTION OF ACTIONS IN RESPONSE TO DETECTED EVENTS, METHOD FOR ASSISTING WITH EXECUTION OF ACTIONS IN RESPONSE TO DETECTED EVENTS, ASSISTING DEVICE, AND COMPUTER PROGRAM	12/622455	8516499	2013-08-20	ISSUED
P8362US00	UNITED STATES	2005-10-24	SYSTEM, METHOD AND PROGRAM PRODUCT FOR HOUSE AUTOMATION	11/257290	7308321	2007-12-11	ISSUED
P8366US00	UNITED STATES	2009-05-27	MONITORING PATTERNS OF MOTION	12/473181	8081082	2011-12-20	ISSUED
P8367US00	UNITED STATES	2014-09-30	REMOTE OBJECT SENSING IN VIDEO	14/502110	9270940	2016-02-23	ISSUED

PCK Reference	Country	Application Date	Title Text	Application Number	Registration Number	Registration Date	Status
P8368US00	UNITED STATES	2006-06-16	METHOD FOR SPATIO-TEMPORAL EVENT DETECTION USING COMPOSITE DEFINITIONS FOR CAMERA SYSTEMS	11/455210	7468662	2008-12-23	ISSUED
P8368US01	UNITED STATES	2008-06-04	METHOD FOR SPATIO-TEMPORAL EVENT DETECTION USING COMPOSITE DEFINITIONS FOR CAMERA SYSTEMS	12/132890	8134457	2012-03-13	ISSUED
P8375US00	UNITED STATES	2012-11-13	DISTRIBUTED CONTROL OF A HETEROGENEOUS VIDEO SURVEILLANCE NETWORK	13/675348	9681103	2017-06-13	ANNUITY DEADLINE
P8375US01	UNITED STATES	2013-01-25	DISTRIBUTED CONTROL OF A HETEROGENEOUS VIDEO SURVEILLANCE NETWORK	13/751013	9681104	2017-06-13	ANNUITY DEADLINE
P8375US02	UNITED STATES	2017-03-22	DISTRIBUTED CONTROL OF A HETEROGENEOUS VIDEO SURVEILLANCE NETWORK	15/465756			PENDING



PCK Reference	Country	Application Date	Title Text	Application Number	Registration Number	Registration Date	Status
P8376US00	UNITED STATES	2009-04-08	GROUP AWARE TRACKING OF PERSONAL PROPERTY WITHIN A BOUNDED ZONE	12/420652	8164443	2012-04-24	ISSUED
P8377US00	UNITED STATES	2007-12-10	NOTIFYING USERS OF DEVICE EVENTS IN A NETWORKED ENVIRONMENT	11/953554	7432805	2008-10-07	ISSUED
P8377US01	UNITED STATES	2008-07-24	NOTIFYING USERS OF DEVICE EVENTS IN A NETWORKED ENVIRONMENT	12/179147	7791472	2010-09-07	ISSUED
P8378US00	UNITED STATES	2014-05-22	IDENTIFYING A CHANGE IN A HOME ENVIRONMENT	14/284581	9355547	2016-05-31	ISSUED
P8378US01	UNITED STATES	2016-05-04	IDENTIFYING A CHANGE IN A HOME ENVIRONMENT	15/146378	9978290	2018-05-22	ISSUED
P8378US02	UNITED STATES	2016-05-04	IDENTIFYING A CHANGE IN A HOME ENVIRONMENT	15/146330	9984590	2018-05-29	ISSUED

**TRADEMARK**  
**REEL: 007652 FRAME: 0792**

PCK Reference	Country	Application Date	Title Text	Application Number	Registration Number	Registration Date	Status
P8404US00	UNITED STATES	2012-10-08	MONITORING USER POSITION TO DETERMINE A TIME FOR PROVIDING A SPECIFIED STATE AT A USER PREMISES	13/647234	9377791	2016-06-28	ISSUED
P8405US00	UNITED STATES	2015-12-30	PRO-ACTIVE BUILDING PROTECTION SYSTEM	14/985068	9382747	2016-07-05	ISSUED
P8405US01	UNITED STATES	2016-05-12	PRO-ACTIVE BUILDING PROTECTION SYSTEM	15/152606	9483933	2016-11-01	ANNUITY DEADLINE
P8407US00	UNITED STATES	2004-06-02	METHOD AND APPARATUS FOR REMOTE COMMAND, CONTROL AND DIAGNOSTICS OF SYSTEMS USING CONVERSATIONAL OR AUDIO INTERFACE	10/858083	8224649	2012-07-17	ISSUED
P8408US00	UNITED STATES	2012-11-14	DYNAMIC TEMPERATURE CONTROL FOR A ROOM CONTAINING A GROUP OF PEOPLE	13/676545	9465392	2016-10-11	ISSUED

**TRADEMARK**  
**REEL: 007652 FRAME: 0793**

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P8409US00	UNITED STATES	2006-02-07	METHOD FOR PROVIDING A BROADCAST ENCRYPTON BASED HOME SECURITY SYSTEM	11/348902	8325923	2012-12-04	ISSUED
P8409US01	UNITED STATES	2012-09-14	METHOD FOR PROVIDING A BROADCAST ENCRYPTON BASED HOME SECURITY SYSTEM	13/620042	8724811	2014-05-13	ISSUED
P8410US00	UNITED STATES	2009-03-12	VIDEO PATTERN RECOGNITION FOR AUTOMATING EMERGENCY SERVICE INCIDENT AWARENESS AND RESPONSE	12/402626	8368754	2013-02-05	ANNUITY DEADLINE
P8411US00	UNITED STATES	2016-03-14	INTELLIGENT THERMOSTAT CONTROL SYSTEM	15/068921	9574786	2017-02-21	ANNUITY DEADLINE
P8411US01	UNITED STATES	2016-11-11	INTELLIGENT THERMOSTAT CONTROL SYSTEM	15/349114	9772115	2017-09-26	ISSUED
P8412US00	UNITED STATES	2013-03-14	INTERACTIVE ENERGY DEVICE FOR ENVIRONMENTAL STEWARDSHIP	13/826419	9599973	2017-03-21	ANNUITY DEADLINE

PCK Reference	Country	Application Date	Title Text	Application Number	Registration Number	Registration Date	Status
P8412US01	UNITED STATES	2013-08-20	INTERACTIVE ENERGY DEVICE FOR ENVIRONMENTAL STEWARDSHIP	13/971251	9733630	2017-08-15	ISSUED
P8413US00	UNITED STATES	2016-09-21	SURVEILLANCE DETECTION BASED ON AN IDENTIFICATION OF A CARRIED MOBILE DEVICE	15/271362	9693181	2017-06-27	ANNUITY DEADLINE
P8414US01	UNITED STATES	2005-07-28	SYSTEM AND METHOD FOR ALARM GENERATION BASED ON THE DETECTION OF THE PRESENCE OF A PERSON	11/495334	7554444	2009-06-30	ANNUITY DEADLINE
P8416US00	UNITED STATES	2016-04-28	FINE TUNING APPLICATION BEHAVIOR USING APPLICATION ZONES	15/141606	9733996	2017-08-15	ISSUED
P8417US00	UNITED STATES	2016-10-26	AUTOMATED NOTIFICATION MULTING RESPONSIVE TO PREDICTED LOCATION	15/334330	9756607	2017-09-05	ISSUED

PCK Reference	Country	Application Date	Title Text	Application Number	Registration Number	Registration Date	Status
P8418US00	UNITED STATES	2011-02-28	MANAGING EMERGENCY RESPONSE SERVICES USING MOBILE COMMUNICATION DEVICES	13/036612	8576066	2013-11-05	ISSUED
P8419US00	UNITED STATES	2016-10-24	LOCATION SPECIFIC IMAGE BASED AUTHENTICATION	15/332501	9811653	2017-11-07	ISSUED
P8419US01	UNITED STATES	2017-10-03	LOCATION SPECIFIC IMAGE BASED AUTHENTICATION	15/723468	10055569	2018-08-21	ISSUED
P8421US00	UNITED STATES	2007-01-11	AMBIENT PRESENTATION OF SURVEILLANCE DATA	11/622132	8704893	2014-04-22	ISSUED
P8421US01	UNITED STATES	2012-08-16	AMBIENT PRESENTATION OF SURVEILLANCE DATA	13/587038	8860812	2014-10-14	ISSUED

PCK Reference	Country	Application Date	Title Text	Application Number	Registration Number	Registration Date	Status
P8422US00	UNITED STATES	2012-07-31	METHOD FOR ON-DEMAND ENERGY SAVINGS BY LOWERING POWER USAGE OF AT LEAST ONE STORAGE DEVICE IN A MULTI-TIERED STORAGE SYSTEM	13/562626	8700932	2014-04-14	ISSUED
P8423US00	UNITED STATES	2011-03-21	CONTROLLING AND MINIMIZING ELECTRICAL POWER CONSUMED BY ELECTRICAL COMPONENTS CONNECTED TO A NETWORKED COMPUTING ENVIRONMENT	13/052754	8738943	2014-05-27	ISSUED
P8424US00	UNITED STATES	2012-01-11	MANAGING ENVIRONMENTAL CONTROL SYSTEM EFFICIENCY	13/348347	9024765	2015-05-05	ISSUED
P8425US00	UNITED STATES	2006-06-30	APPARATUS AND METHOD FOR MEASURING THE ACCURATE POSITION OF MOVING OBJECTS IN AN INDOOR ENVIRONMENT	11/428019	7761233	2010-07-20	ISSUED

PCK Reference	Country	Application Date	Title Text	Application Number	Registration Number	Registration Date	Status
P8429US00	UNITED STATES	2012-11-13	PROVIDING EMERGENCY ACCESS TO SURVEILLANCE VIDEO	13/675391	8934754	2015-01-13	ISSUED
P8429US01	UNITED STATES	2013-01-25	PROVIDING EMERGENCY ACCESS TO SURVEILLANCE VIDEO	13/751023	9071807	2015-06-30	ISSUED
P8430US00	UNITED STATES	2007-01-30	PERVASIVE NETWORK FOR ENVIRONMENTAL SENSING	11/668604	8762060	2014-06-24	ISSUED
P8430US01	UNITED STATES	2009-11-06	PERVASIVE NETWORK FOR ENVIRONMENTAL SENSING	12/613758	8805613	2014-08-12	ISSUED
P8898US00	UNITED STATES	2019-09-09	LIGHT SWITCH SYSTEM	62/897466			CONVENTION DEADLINE
P9481US00	UNITED STATES	2020-03-26	THERMOSTAT DEVICE WITH IMPROVED ENERGY OPTIMIZATION	62/994937			

**NOTICE OF SECURITY INTEREST IN INTELLECTUAL PROPERTY**

**WHEREAS** the undersigned (the “**Debtor**”), is the owner of the registered intellectual property set forth on **Schedule A** attached hereto (collectively, the “**Intellectual Property**”);

**AND WHEREAS** pursuant to a Note Purchase Agreement dated as of the date hereof (as amended, supplemented, restated or otherwise modified from time to time, the “**NPA**”), the Debtor has issued secured convertible promissory notes (the “**Notes**”) to the Investors.

**AND WHEREAS** pursuant to the NPA, the Debtor has entered into a General Security Agreement dated as of May 5, 2020 (as amended, supplemented, restated or otherwise modified from time to time, the “**GSA**”) in favour of **AST TRUST COMPANY (CANADA)**, as collateral agent (the “**Agent**”) in favour of the Investors and granted a security interest in favour of the Agent with respect to the Debtor’s interests in the Intellectual Property, among other collateral, as security for its obligations to the Investors under the NPA and the Notes.

**AND WHEREAS** capitalized terms used but not defined herein have the meanings assigned to them in the NPA.

**NOW THEREFORE**, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, and in accordance with the terms and obligations set forth in the Security Documents, the Debtor hereby confirms the granting of a security interest and lien in the Intellectual Property to the Agent.

**THE DEBTOR** hereby certifies that the aforementioned information as it relates to the Debtor is true and accurate.

**[Signature Page Follows]**



**DATED:** May 5, 2020

**ECOBEE INC.**

By:

DocuSigned by:

*Stuart Lombard*

Name: Stuart Lombard

Title: Chief Executive Officer

I have the authority to bind the company.

## SCHEDULE A

## INTELLECTUAL PROPERTY

## TRADEMARKS – Canada

Mark	Filing Date	App. No.	Reg. No.	Reg. Date	Owner
ECOBEE & Design	01-Feb-08	1381717	TMA754845	08-Dec-09	ECOBEE INC.
ECOBEE	01-Feb-08	1381716	TMA737236	31-Mar-09	ECOBEE INC.
DATARHYTHM TECHNOLOGIES	20-Aug-12	1590783	TMA912159	24-Aug-15	ECOBEE INC.
DATARHYTHM	29-Aug-12	1592098	TMA913931	15-Sep-15	ECOBEE INC.
HOME IQ	29-Aug-12	1592099	TMA913939	15-Sep-15	ECOBEE INC.
ECOBEE3	10-Apr-14	1672336	TMA969873	3-May-15	ECOBEE INC.
FOR HOMES WITH MORE THAN ONE ROOM	10-Apr-14	1672337	TMA969566	1-May-15	ECOBEE INC.
ECOBEE3 LITE	10-Feb-17	1822346	TMA1012523	09-Jan-19	ECOBEE INC.
ECOBEE4 SMART THERMOSTAT	10-Feb-17	1822347	TMA1069407	14-Jan-20	ECOBEE INC.
ECOBEE4	10-Feb-17	1822350	TMA1064338	2019-11-26	ECOBEE INC.
ECOBEE3 LITE SMART THERMOSTAT	10-Feb-17	1822351	TMA1012526	09-Jan-19	ECOBEE INC.
WHOLE HOME VOICE	18-May-17	1838331	N/A	N/A	ECOBEE INC.
SWITCH+	5-Feb-18	1881441	N/A	N/A	ECOBEE INC.
ECOBEE SWITCH+	5-Feb-18	1881442	TMA1018537	2-Apr-19	ECOBEE INC.
E (design)	9-Mar-20	2016327	N/A	N/A	ECOBEE INC.
ECOBEE HAVEN	9-Mar-20	2016328	N/A	N/A	ECOBEE INC.
ECOBEE logo	9-Mar-20	2016330	N/A	N/A	ECOBEE INC.

## TRADEMARKS - U.S.A.

Mark	Filing Date	App. No.	Reg. No.	Reg. Date	Owner
GREEN MADE EASY	22-Nov-10	85/182,334	4,159,889	19-Jun-12	ECOBEE INC.
ECOBEE	6-Feb-08	77/390,082	3,710,918	17-Nov-09	ECOBEE INC.
ECOBEE (and Design)	6-Feb-08	77/390,141	3,795,396	1-Jun-10	ECOBEE INC.
DATARHYTHM	29-Aug-12	85/715,922	4,585,057	12-Aug-15	ECOBEE INC.
ECOBEE SMART THERMOSTAT	8-Dec-11	85/490,282	4,212,997	25-Sept-12	ECOBEE INC.
ECOBEE SMART	8-Dec-11	85/490,252	4,451,834	17-Dec-13	ECOBEE INC.
ECOBEE EMS	8-Apr-11	85/490,325	4,201,387	4-Sept-12	ECOBEE INC.
ECOBEE3	10-Apr-14	86/249,171	4,757,295	16-Jun-15	ECOBEE INC.
FOR HOMES WITH MORE THAN ONE ROOM	9-Jul-15	86/249,173	4,797,795	25-Aug-15	ECOBEE INC.
DONATE YOUR DATA	3-Jul-16	87/1,808,94	5,509,131	3-Jul-18	ECOBEE INC.
ECOBEE3 LITE	6-Mar-17	87,360,243	5,778,367	18-Jun-19	ECOBEE INC.
ECOBEE4	6-Mar-17	87/359,580	N/A	N/A	ECOBEE INC.
SWITCH+	8-Feb-18	87/790,524	N/A	N/A	ECOBEE INC.
WHOLE HOME VOICE	31-Aug-17	87/591,544	N/A	N/A	ECOBEE INC.
ECOBEE SWITCH+	8-FEB-18	87/790,509	N/A	N/A	ECOBEE INC.
ECOBEE HAVEN	24-MAR-20	88/845,798	N/A	N/A	ECOBEE INC.
Bee logo (Design)	6-Mar-17	87/359,562	5,296,228	26-Sep-17	ECOBEE INC.

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None.

## PATENTS

## PATENTS – CANADA

## Design

PKK Reference	Country	Application Date	Title Text	Application Number	Registration Number	Registration Date	Status
D1387CA00	CANADA	2017-08-31	THERMOSTAT DEVICE WITH TRIM PLATE	176743	176743	2018-07-05	ISSUED
D1389CA00	CANADA	2017-10-27	SWITCH WITH TRIM PLATE	177893	177893	2019-04-23	ISSUED
D1459CA00	CANADA	2018-04-27	SWITCH WITH TRIM PLATE	181086	181086	2019-04-23	ISSUED
D1507CA00	CANADA	2019-06-27	REMOTE SENSOR DEVICE	188481			PENDING

## Patent

PKK Reference	Country	Application Date	Title Text	Application Number	Registration Number	Registration Date	Status
P6163CA00	CANADA	2017-10-02	CONTROL DEVICE WITH CURRENT PROTECTED SOLID STATE RELAYS	2981023			ANNUITY DEADLINE
P6912CA00	CANADA	2019-11-08	COMPUTERIZED DEVICE WITH VOICE COMMAND INPUT CAPABILITY	3063045			PENDING

PKC Reference	Country	Application Date	Title Text	Application Number	Registration Number	Registration Date	Status
P7163CA00	CANADA	2018-08-24	HVAC SIGNALING OVER A TWO-WIRE CONNECTION	3015330			ANNUITY DEADLINE
P7207CA00	CANADA	2018-09-24	LEAK DETECTOR WITH SENSING CABLE	3018288			ANNUITY DEADLINE
P7562CA00	CANADA	2019-03-19	SMART LIGHT SWITCH WITH TEMPERATURE SENSING	3037165			PENDING
P7564CA00	CANADA	2019-03-19	SMART LIGHT SWITCH WITH INTEGRATED SCHEDULING	3037177			PENDING
P7565CA00	CANADA	2019-03-19	SMART LIGHT SWITCH WITH VACATION MODE	3037170			PENDING
P7614CA00	CANADA	2019-04-05	CONTROL DEVICE FOR HVAC FAN COIL UNITS	3039300			PENDING

**PATENTS – U.S.A.**

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## Design

	Country	Application Date	Title Text	Application Number	Registration Number	Registration Date	Status
D1194US00	UNITED STATES	2013-10-22	THERMOSTAT DEVICE WITH LOW PROFILE TRIM PLATE	29/470529	D734178	2015-07-14	ISSUED
D1387US00	UNITED STATES	2017-04-07	THERMOSTAT DEVICE	29/599864	D833893	2018-11-20	ISSUED
D1387US01	UNITED STATES	2018-09-21	THERMOSTAT DEVICE WITH TRIM PLATE	29/664127			ISSUED
D1389US01	UNITED STATES	2018-03-21	SWITCH WITH TRIM PLATE	29/641301			ISSUED
D1389US02	UNITED STATES	2019-05-23	SWITCH WITH TRIM PLATE	29/692228			RESPONSE TO OA
D1507US00	UNITED STATES	2018-12-31	REMOTE SENSOR DEVICE	29/675346			DECS/ASSIGNMENTS TO BE FILED
D1512US00	UNITED STATES	2019-02-13	CAMERA DEVICE AND STAND	29/680117			PENDING
D1516US00	UNITED STATES	2019-02-28	SWITCH WITH TRIM PLATE	29/681876			ISSUED
D1574US00	UNITED STATES	2020-01-10	CONTACT SENSORS FOR DOORS AND WINDOWS	29/720269			CONVENTION DEADLINE

## Patent

PKR Reference	Country	Application Date	Title Text	Application Number	Registration Number	Registration Date	Status
P3212US00	UNITED STATES	2011-07-11	HVAC CONTROLLER WITH PREDICTIVE SET-POINT CONTROL	13/179770	9696052	2017-07-04	ISSUED
P3213US00	UNITED STATES	2011-07-11	HVAC CONTROLLER WITH DYNAMIC TEMPERATURE COMPENSATION	13/179912	9016593	2015-04-28	ISSUED
P3396US00	UNITED STATES	2012-01-10	HVAC CONTROLLER WITH DEVICE SCHEDULING PROGRAM	13/347105	8965585	2015-02-24	ISSUED
P6163US00	UNITED STATES	2016-10-13	CONTROL DEVICE WITH CURRENT PROTECTED SOLID STATE RELAYS	15/292648	10215432	2019-02-26	ISSUED
P6163US01	UNITED STATES	2018-01-24	CONTROL DEVICE WITH BULK HEATING COMPENSATION	15/878977			ISSUED
P6163US02	UNITED STATES	2019-07-22	CONTROL DEVICE WITH CURRENT PROTECTED SOLID STATE RELAYS	16/518102			PENDING



PCK Reference	Country	Application Date	Title Text	Application Number	Registration Number	Registration Date	Status
P6912US00	UNITED STATES	2017-05-10	COMPUTERIZED DEVICE WITH VOICE COMMAND INPUT CAPABILITY	15/591188	10311870	2019-06-04	ISSUED
P6912US01	UNITED STATES	2019-04-23	COMPUTERIZED DEVICE WITH VOICE COMMAND INPUT CAPABILITY	16/391406			FINAL FEE DEADLINE
P7163US01	UNITED STATES	2018-08-24	HVAC SIGNALING OVER A TWO-WIRE CONNECTION	16/111384			RESPONSE TO OA
P7207US01	UNITED STATES	2018-09-24	LEAK DETECTOR WITH SENSING CABLE	16/139548			DECS/TO BE FILED
P7207US01	UNITED STATES	2018-09-24	LEAK DETECTOR WITH SENSING CABLE	16/139548			RESPONSE TO OA
P7562US01	UNITED STATES	2019-03-19	SMART LIGHT SWITCH WITH TEMPERATURE SENSING	16/357762			PENDING
P7564US01	UNITED STATES	2019-03-19	SMART LIGHT SWITCH WITH INTEGRATED SCHEDULING	16/357912			RESPONSE TO FINAL OA (2-MONTH DEADLINE)
P7565US01	UNITED STATES	2019-03-19	SMART LIGHT SWITCH WITH VACATION MODE	16/357989			FINAL FEE DEADLINE

PCK Reference	Country	Application Date	Title Text	Application Number	Registration Number	Registration Date	Status
P7565US01	UNITED STATES	2019-03-19	SMART LIGHT SWITCH WITH VACATION MODE	16/357989			DECLARATION/ ASSIGNMENT TO BE FILED
P7614US01	UNITED STATES	2019-04-05	CONTROL DEVICE FOR HVAC FAN COIL UNITS	16/376029			DECLS/ASSIGNME NTS TO BE FILED
P8343US00	UNITED STATES	2008-06-09	SYSTEM AND METHOD TO ROUTE AIRFLOW USING DYNAMICALLY CHANGING DUCTS	12/135239	9008844	2015-04-14	ISSUED
P8344US00	UNITED STATES	2015-11-23	DYNAMIC CONTROL OF SMART HOME USING WEARABLE DEVICE	14/948674	10250403	2019-04-02	ISSUED
P8344US01	UNITED STATES	2016-02-09	DYNAMIC CONTROL OF SMART HOME USING WEARABLE DEVICE	15/018943	9473321	2016-10-18	ANNUITY DEADLINE
P8344US02	UNITED STATES	2016-08-10	DYNAMIC CONTROL OF SMART HOME USING WEARABLE DEVICE	15/233366	9909772	2018-03-06	ISSUED

PCK Reference	Country	Application Date	Title Text	Application Number	Registration Number	Registration Date	Status
P8344US03	UNITED STATES	2017-08-14	DYNAMIC CONTROL OF SMART HOME USING WEARABLE DEVICE	15/675819	10072866	2018-09-11	ISSUED
P8344US04	UNITED STATES	2019-02-28	DYNAMIC CONTROL OF SMART HOME USING WEARABLE DEVICE	16/289051			RESPONSE TO OA
P8345US00	UNITED STATES	2012-08-01	MULTI-DIMENSIONAL HEATING AND COOLING SYSTEM	13/564006	9152154	2015-10-06	ISSUED
P8346US00	UNITED STATES	2012-07-02	INTELLIGENT AND COORDINATED LIGHTING OF A LIGHTING DEVICE	13/540012	9161419	2015-10-13	ISSUED
P8346US01	UNITED STATES	2015-08-06	INTELLIGENT AND COORDINATED LIGHTING OF A LIGHTING DEVICE	14/819555	9854645	2117-12-26	ISSUED
P8348US00	UNITED STATES	2013-01-30	ENTRY TECHNOLOGY FOR BUILDING AUTOMATION	13/754824	9196103	2015-11-24	ISSUED
P8348US01	UNITED STATES	2015-10-21	ENTRY TECHNOLOGY FOR BUILDING AUTOMATION	14/918882	9982472	2018-05-29	ISSUED

PCK Reference	Country	Application Date	Title Text	Application Number	Registration Number	Registration Date	Status
P8348US02	UNITED STATES	2018-03-08	ENTRY TECHNOLOGY FOR BUILDING AUTOMATION	15/915924	10309145	2019-06-04	ISSUED
P8349US00	UNITED STATES	2012-04-13	CONTROLLING COMMUNICATI ON AMONG MULTIPLE INDUSTRIAL CONTROL SYSTEMS	13/446172	8872638	2014-10-28	ISSUED
P8349US01	UNITED STATES	2012-09-06	CONTROLLING COMMUNICATI ON AMONG MULTIPLE INDUSTRIAL CONTROL SYSTEMS	13/604678	8732270	2014-05-20	ISSUED
P8356US00	UNITED STATES	2012-11-13	AUTOMATED AUTHORIZATIO N TO ACCESS SURVEILLANCE VIDEO BASED ON PRE-SPECIFIED EVENTS	13/675429	9041812	2015-05-26	ISSUED
P8356US01	UNITED STATES	2013-01-25	AUTOMATED AUTHORIZATIO N TO ACCESS SURVEILLANCE VIDEO BASED ON PRE-SPECIFIED EVENTS	13/675429	9041812	2015-11-17	ISSUED

PCK Reference	Country	Application Date	Title Text	Application Number	Registration Number	Registration Date	Status
P8359US00	UNITED STATES	2009-11-20	SYSTEM FOR ASSISTING WITH EXECUTION OF ACTIONS IN RESPONSE TO DETECTED EVENTS, METHOD FOR ASSISTING WITH EXECUTION OF ACTIONS IN RESPONSE TO DETECTED EVENTS, ASSISTING DEVICE, AND COMPUTER PROGRAM	12/622455	8516499	2013-08-20	ISSUED
P8362US00	UNITED STATES	2005-10-24	SYSTEM, METHOD AND PROGRAM PRODUCT FOR HOUSE AUTOMATION	11/257290	7308321	2007-12-11	ISSUED
P8366US00	UNITED STATES	2009-05-27	MONITORING PATTERNS OF MOTION	12/473181	8081082	2011-12-20	ISSUED
P8367US00	UNITED STATES	2014-09-30	REMOTE OBJECT SENSING IN VIDEO	14/502110	9270940	2016-02-23	ISSUED

PCK Reference	Country	Application Date	Title Text	Application Number	Registration Number	Registration Date	Status
P8368US00	UNITED STATES	2006-06-16	METHOD FOR SPATIO-TEMPORAL EVENT DETECTION USING COMPOSITE DEFINITIONS FOR CAMERA SYSTEMS	11/455210	7468662	2008-12-23	ISSUED
P8368US01	UNITED STATES	2008-06-04	METHOD FOR SPATIO-TEMPORAL EVENT DETECTION USING COMPOSITE DEFINITIONS FOR CAMERA SYSTEMS	12/132890	8134457	2012-03-13	ISSUED
P8375US00	UNITED STATES	2012-11-13	DISTRIBUTED CONTROL OF A HETEROGENEOUS VIDEO SURVEILLANCE NETWORK	13/675348	9681103	2017-06-13	ANNUITY DEADLINE
P8375US01	UNITED STATES	2013-01-25	DISTRIBUTED CONTROL OF A HETEROGENEOUS VIDEO SURVEILLANCE NETWORK	13/751013	9681104	2017-06-13	ANNUITY DEADLINE
P8375US02	UNITED STATES	2017-03-22	DISTRIBUTED CONTROL OF A HETEROGENEOUS VIDEO SURVEILLANCE NETWORK	15/465756			PENDING

PCK Reference	Country	Application Date	Title Text	Application Number	Registration Number	Registration Date	Status
P8376US00	UNITED STATES	2009-04-08	GROUP AWARE TRACKING OF PERSONAL PROPERTY WITHIN A BOUNDED ZONE	12/420652	8164443	2012-04-24	ISSUED
P8377US00	UNITED STATES	2007-12-10	NOTIFYING USERS OF DEVICE EVENTS IN A NETWORKED ENVIRONMENT	11/953554	7432805	2008-10-07	ISSUED
P8377US01	UNITED STATES	2008-07-24	NOTIFYING USERS OF DEVICE EVENTS IN A NETWORKED ENVIRONMENT	12/179147	7791472	2010-09-07	ISSUED
P8378US00	UNITED STATES	2014-05-22	IDENTIFYING A CHANGE IN A HOME ENVIRONMENT	14/284581	9355547	2016-05-31	ISSUED
P8378US01	UNITED STATES	2016-05-04	IDENTIFYING A CHANGE IN A HOME ENVIRONMENT	15/146378	9978290	2018-05-22	ISSUED
P8378US02	UNITED STATES	2016-05-04	IDENTIFYING A CHANGE IN A HOME ENVIRONMENT	15/146330	9984590	2018-05-29	ISSUED

PCK Reference	Country	Application Date	Title Text	Application Number	Registration Number	Registration Date	Status
P8404US00	UNITED STATES	2012-10-08	MONITORING USER POSITION TO DETERMINE A TIME FOR PROVIDING A SPECIFIED STATE AT A USER PREMISES	13/647234	9377791	2016-06-28	ISSUED
P8405US00	UNITED STATES	2015-12-30	PRO-ACTIVE BUILDING PROTECTION SYSTEM	14/985068	9382747	2016-07-05	ISSUED
P8405US01	UNITED STATES	2016-05-12	PRO-ACTIVE BUILDING PROTECTION SYSTEM	15/152606	9483933	2016-11-01	ANNUITY DEADLINE
P8407US00	UNITED STATES	2004-06-02	METHOD AND APPARATUS FOR REMOTE COMMAND, CONTROL AND DIAGNOSTICS OF SYSTEMS USING CONVERSATIONAL OR AUDIO INTERFACE	10/858083	8224649	2012-07-17	ISSUED
P8408US00	UNITED STATES	2012-11-14	DYNAMIC TEMPERATURE CONTROL FOR A ROOM CONTAINING A GROUP OF PEOPLE	13/676545	9465392	2016-10-11	ISSUED

**TRADEMARK**  
**REEL: 007652 FRAME: 0815**



PCK Reference	Country	Application Date	Title Text	Application Number	Registration Number	Registration Date	Status
P8409US00	UNITED STATES	2006-02-07	METHOD FOR PROVIDING A BROADCAST ENCRYPTON BASED HOME SECURITY SYSTEM	11/348902	8325923	2012-12-04	ISSUED
P8409US01	UNITED STATES	2012-09-14	METHOD FOR PROVIDING A BROADCAST ENCRYPTON BASED HOME SECURITY SYSTEM	13/620042	8724811	2014-05-13	ISSUED
P8410US00	UNITED STATES	2009-03-12	VIDEO PATTERN RECOGNITION FOR AUTOMATING EMERGENCY SERVICE INCIDENT AWARENESS AND RESPONSE	12/402626	8368754	2013-02-05	ANNUITY DEADLINE
P8411US00	UNITED STATES	2016-03-14	INTELLIGENT THERMOSTAT CONTROL SYSTEM	15/068921	9574786	2017-02-21	ANNUITY DEADLINE
P8411US01	UNITED STATES	2016-11-11	INTELLIGENT THERMOSTAT CONTROL SYSTEM	15/349114	9772115	2017-09-26	ISSUED
P8412US00	UNITED STATES	2013-03-14	INTERACTIVE ENERGY DEVICE FOR ENVIRONMENTAL STEWARDSHIP	13/826419	9599973	2017-03-21	ANNUITY DEADLINE

PCK Reference	Country	Application Date	Title Text	Application Number	Registration Number	Registration Date	Status
P8412US01	UNITED STATES	2013-08-20	INTERACTIVE ENERGY DEVICE FOR ENVIRONMENTAL STEWARDSHIP	13/971251	9733630	2017-08-15	ISSUED
P8413US00	UNITED STATES	2016-09-21	SURVEILLANCE DETECTION BASED ON AN IDENTIFICATION OF A CARRIED MOBILE DEVICE	15/271362	9693181	2017-06-27	ANNUITY DEADLINE
P8414US01	UNITED STATES	2005-07-28	SYSTEM AND METHOD FOR ALARM GENERATION BASED ON THE DETECTION OF THE PRESENCE OF A PERSON	11/495334	7554444	2009-06-30	ANNUITY DEADLINE
P8416US00	UNITED STATES	2016-04-28	FINE TUNING APPLICATION BEHAVIOR USING APPLICATION ZONES	15/141606	9733996	2017-08-15	ISSUED
P8417US00	UNITED STATES	2016-10-26	AUTOMATED NOTIFICATION MULTING RESPONSIVE TO PREDICTED LOCATION	15/334330	9756607	2017-09-05	ISSUED

PCK Reference	Country	Application Date	Title Text	Application Number	Registration Number	Registration Date	Status
P8418US00	UNITED STATES	2011-02-28	MANAGING EMERGENCY RESPONSE SERVICES USING MOBILE COMMUNICATION DEVICES	13/036612	8576066	2013-11-05	ISSUED
P8419US00	UNITED STATES	2016-10-24	LOCATION SPECIFIC IMAGE BASED AUTHENTICATION	15/332501	9811653	2017-11-07	ISSUED
P8419US01	UNITED STATES	2017-10-03	LOCATION SPECIFIC IMAGE BASED AUTHENTICATION	15/723468	10055569	2018-08-21	ISSUED
P8421US00	UNITED STATES	2007-01-11	AMBIENT PRESENTATION OF SURVEILLANCE DATA	11/622132	8704893	2014-04-22	ISSUED
P8421US01	UNITED STATES	2012-08-16	AMBIENT PRESENTATION OF SURVEILLANCE DATA	13/587038	8860812	2014-10-14	ISSUED

PCK Reference	Country	Application Date	Title Text	Application Number	Registration Number	Registration Date	Status
P8422US00	UNITED STATES	2012-07-31	METHOD FOR ON-DEMAND ENERGY SAVINGS BY LOWERING POWER USAGE OF AT LEAST ONE STORAGE DEVICE IN A MULTI-TIERED STORAGE SYSTEM	13/562626	8700932	2014-04-14	ISSUED
P8423US00	UNITED STATES	2011-03-21	CONTROLLING AND MINIMIZING ELECTRICAL POWER CONSUMED BY ELECTRICAL COMPONENTS CONNECTED TO A NETWORKED COMPUTING ENVIRONMENT	13/052754	8738943	2014-05-27	ISSUED
P8424US00	UNITED STATES	2012-01-11	MANAGING ENVIRONMENTAL CONTROL SYSTEM EFFICIENCY	13/348347	9024765	2015-05-05	ISSUED
P8425US00	UNITED STATES	2006-06-30	APPARATUS AND METHOD FOR MEASURING THE ACCURATE POSITION OF MOVING OBJECTS IN AN INDOOR ENVIRONMENT	11/428019	7761233	2010-07-20	ISSUED

PK Reference	Country	Application Date	Title Text	Application Number	Registration Number	Registration Date	Status
P8429US00	UNITED STATES	2012-11-13	PROVIDING EMERGENCY ACCESS TO SURVEILLANCE VIDEO	13/675391	8934754	2015-01-13	ISSUED
P8429US01	UNITED STATES	2013-01-25	PROVIDING EMERGENCY ACCESS TO SURVEILLANCE VIDEO	13/751023	9071807	2015-06-30	ISSUED
P8430US00	UNITED STATES	2007-01-30	PERVASIVE NETWORK FOR ENVIRONMENTAL SENSING	11/668604	8762060	2014-06-24	ISSUED
P8430US01	UNITED STATES	2009-11-06	PERVASIVE NETWORK FOR ENVIRONMENTAL SENSING	12/613758	8805613	2014-08-12	ISSUED
P8898US00	UNITED STATES	2019-09-09	LIGHT SWITCH SYSTEM	62/897466			CONVENTION DEADLINE
P9481US00	UNITED STATES	2020-03-26	THERMOSTAT DEVICE WITH IMPROVED ENERGY OPTIMIZATION	62/994937			

**NOTICE OF SECURITY INTEREST IN INTELLECTUAL PROPERTY**

**WHEREAS** the undersigned (the “**Debtor**”), is the owner of the registered intellectual property set forth on **Schedule A** attached hereto (collectively, the “**Intellectual Property**”);

**AND WHEREAS** pursuant to a Note Purchase Agreement dated as of the date hereof (as amended, supplemented, restated or otherwise modified from time to time, the “**NPA**”), the Debtor has issued secured convertible promissory notes (the “**Notes**”) to the Investors.

**AND WHEREAS** pursuant to the NPA, the Debtor has entered into a General Security Agreement dated as of May 5, 2020 (as amended, supplemented, restated or otherwise modified from time to time, the “**GSA**”) in favour of **AST TRUST COMPANY (CANADA)**, as collateral agent (the “**Agent**”) in favour of the Investors and granted a security interest in favour of the Agent with respect to the Debtor’s interests in the Intellectual Property, among other collateral, as security for its obligations to the Investors under the NPA and the Notes.

**AND WHEREAS** capitalized terms used but not defined herein have the meanings assigned to them in the NPA.

**NOW THEREFORE**, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, and in accordance with the terms and obligations set forth in the Security Documents, the Debtor hereby confirms the granting of a security interest and lien in the Intellectual Property to the Agent.

**THE DEBTOR** hereby certifies that the aforementioned information as it relates to the Debtor is true and accurate.

**[Signature Page Follows]**

**DATED:** May 5, 2020

**ECOBEE INC.**

By:

DocuSigned by:

*Stuart Lombard*

Name: Stuart Lombard

Title: Chief Executive Officer

I have the authority to bind the company.

## SCHEDULE A

## INTELLECTUAL PROPERTY

## TRADEMARKS – Canada

Mark	Filing Date	App. No.	Reg. No.	Reg. Date	Owner
ECOBEE & Design	01-Feb-08	1381717	TMA754845	08-Dec-09	ECOBEE INC.
ECOBEE	01-Feb-08	1381716	TMA737236	31-Mar-09	ECOBEE INC.
DATARHYTHM TECHNOLOGIES	20-Aug-12	1590783	TMA912159	24-Aug-15	ECOBEE INC.
DATARHYTHM	29-Aug-12	1592098	TMA913931	15-Sep-15	ECOBEE INC.
HOME IQ	29-Aug-12	1592099	TMA913939	15-Sep-15	ECOBEE INC.
ECOBEE3	10-Apr-14	1672336	TMA969873	3-May-15	ECOBEE INC.
FOR HOMES WITH MORE THAN ONE ROOM	10-Apr-14	1672337	TMA969566	1-May-15	ECOBEE INC.
ECOBEE3 LITE	10-Feb-17	1822346	TMA1012523	09-Jan-19	ECOBEE INC.
ECOBEE4 SMART THERMOSTAT	10-Feb-17	1822347	TMA1069407	14-Jan-20	ECOBEE INC.
ECOBEE4	10-Feb-17	1822350	TMA1064338	2019-11-26	ECOBEE INC.
ECOBEE3 LITE SMART THERMOSTAT	10-Feb-17	1822351	TMA1012526	09-Jan-19	ECOBEE INC.
WHOLE HOME VOICE	18-May-17	1838331	N/A	N/A	ECOBEE INC.
SWITCH+	5-Feb-18	1881441	N/A	N/A	ECOBEE INC.
ECOBEE SWITCH+	5-Feb-18	1881442	TMA1018537	2-Apr-19	ECOBEE INC.
E (design)	9-Mar-20	2016327	N/A	N/A	ECOBEE INC.
ECOBEE HAVEN	9-Mar-20	2016328	N/A	N/A	ECOBEE INC.
ECOBEE logo	9-Mar-20	2016330	N/A	N/A	ECOBEE INC.



## TRADEMARKS - U.S.A.

Mark	Filing Date	App. No.	Reg. No.	Reg. Date	Owner
GREEN MADE EASY	22-Nov-10	85/182,334	4,159,889	19-Jun-12	ECOBEE INC.
ECOBEE	6-Feb-08	77/390,082	3,710,918	17-Nov-09	ECOBEE INC.
ECOBEE (and Design)	6-Feb-08	77/390,141	3,795,396	1-Jun-10	ECOBEE INC.
DATARHYTHM	29-Aug-12	85/715,922	4,585,057	12-Aug-15	ECOBEE INC.
ECOBEE SMART THERMOSTAT	8-Dec-11	85/490,282	4,212,997	25-Sept-12	ECOBEE INC.
ECOBEE SMART	8-Dec-11	85/490,252	4,451,834	17-Dec-13	ECOBEE INC.
ECOBEE EMS	8-Apr-11	85/490,325	4,201,387	4-Sept-12	ECOBEE INC.
ECOBEE3	10-Apr-14	86/249,171	4,757,295	16-Jun-15	ECOBEE INC.
FOR HOMES WITH MORE THAN ONE ROOM	9-Jul-15	86/249,173	4,797,795	25-Aug-15	ECOBEE INC.
DONATE YOUR DATA	3-Jul-16	87/1,808,94	5,509,131	3-Jul-18	ECOBEE INC.
ECOBEE3 LITE	6-Mar-17	87,360,243	5,778,367	18-Jun-19	ECOBEE INC.
ECOBEE4	6-Mar-17	87/359,580	N/A	N/A	ECOBEE INC.
SWITCH+	8-Feb-18	87/790,524	N/A	N/A	ECOBEE INC.
WHOLE HOME VOICE	31-Aug-17	87/591,544	N/A	N/A	ECOBEE INC.
ECOBEE SWITCH+	8-FEB-18	87/790,509	N/A	N/A	ECOBEE INC.
ECOBEE HAVEN	24-MAR-20	88/845,798	N/A	N/A	ECOBEE INC.
Bee logo (Design)	6-Mar-17	87/359,562	5,296,228	26-Sep-17	ECOBEE INC.

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None.

## PATENTS

## PATENTS – CANADA

## Design

PKK Reference	Country	Application Date	Title Text	Application Number	Registration Number	Registration Date	Status
D1387CA00	CANADA	2017-08-31	THERMOSTAT DEVICE WITH TRIM PLATE	176743	176743	2018-07-05	ISSUED
D1389CA00	CANADA	2017-10-27	SWITCH WITH TRIM PLATE	177893	177893	2019-04-23	ISSUED
D1459CA00	CANADA	2018-04-27	SWITCH WITH TRIM PLATE	181086	181086	2019-04-23	ISSUED
D1507CA00	CANADA	2019-06-27	REMOTE SENSOR DEVICE	188481			PENDING

## Patent

PKK Reference	Country	Application Date	Title Text	Application Number	Registration Number	Registration Date	Status
P6163CA00	CANADA	2017-10-02	CONTROL DEVICE WITH CURRENT PROTECTED SOLID STATE RELAYS	2981023			ANNUITY DEADLINE
P6912CA00	CANADA	2019-11-08	COMPUTERIZED DEVICE WITH VOICE COMMAND INPUT CAPABILITY	3063045			PENDING

PKC Reference	Country	Application Date	Title Text	Application Number	Registration Number	Registration Date	Status
P7163CA00	CANADA	2018-08-24	HVAC SIGNALING OVER A TWO-WIRE CONNECTION	3015330			ANNUITY DEADLINE
P7207CA00	CANADA	2018-09-24	LEAK DETECTOR WITH SENSING CABLE	3018288			ANNUITY DEADLINE
P7562CA00	CANADA	2019-03-19	SMART LIGHT SWITCH WITH TEMPERATURE SENSING	3037165			PENDING
P7564CA00	CANADA	2019-03-19	SMART LIGHT SWITCH WITH INTEGRATED SCHEDULING	3037177			PENDING
P7565CA00	CANADA	2019-03-19	SMART LIGHT SWITCH WITH VACATION MODE	3037170			PENDING
P7614CA00	CANADA	2019-04-05	CONTROL DEVICE FOR HVAC FAN COIL UNITS	3039300			PENDING

**PATENTS – U.S.A.**

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Notice of Security Interest in Intellectual Property

## Design

	Country	Application Date	Title Text	Application Number	Registration Number	Registration Date	Status
D1194US00	UNITED STATES	2013-10-22	THERMOSTAT DEVICE WITH LOW PROFILE TRIM PLATE	29/470529	D734178	2015-07-14	ISSUED
D1387US00	UNITED STATES	2017-04-07	THERMOSTAT DEVICE	29/599864	D833893	2018-11-20	ISSUED
D1387US01	UNITED STATES	2018-09-21	THERMOSTAT DEVICE WITH TRIM PLATE	29/664127			ISSUED
D1389US01	UNITED STATES	2018-03-21	SWITCH WITH TRIM PLATE	29/641301			ISSUED
D1389US02	UNITED STATES	2019-05-23	SWITCH WITH TRIM PLATE	29/692228			RESPONSE TO OA
D1507US00	UNITED STATES	2018-12-31	REMOTE SENSOR DEVICE	29/675346			DECS/ASSIGNMENTS TO BE FILED
D1512US00	UNITED STATES	2019-02-13	CAMERA DEVICE AND STAND	29/680117			PENDING
D1516US00	UNITED STATES	2019-02-28	SWITCH WITH TRIM PLATE	29/681876			ISSUED
D1574US00	UNITED STATES	2020-01-10	CONTACT SENSORS FOR DOORS AND WINDOWS	29/720269			CONVENTION DEADLINE

## Patent

PKR Reference	Country	Application Date	Title Text	Application Number	Registration Number	Registration Date	Status
P3212US00	UNITED STATES	2011-07-11	HVAC CONTROLLER WITH PREDICTIVE SET-POINT CONTROL	13/179770	9696052	2017-07-04	ISSUED
P3213US00	UNITED STATES	2011-07-11	HVAC CONTROLLER WITH DYNAMIC TEMPERATURE COMPENSATION	13/179912	9016593	2015-04-28	ISSUED
P3396US00	UNITED STATES	2012-01-10	HVAC CONTROLLER WITH DEVICE SCHEDULING PROGRAM	13/347105	8965585	2015-02-24	ISSUED
P6163US00	UNITED STATES	2016-10-13	CONTROL DEVICE WITH CURRENT PROTECTED SOLID STATE RELAYS	15/292648	10215432	2019-02-26	ISSUED
P6163US01	UNITED STATES	2018-01-24	CONTROL DEVICE WITH BULK HEATING COMPENSATION	15/878977			ISSUED
P6163US02	UNITED STATES	2019-07-22	CONTROL DEVICE WITH CURRENT PROTECTED SOLID STATE RELAYS	16/518102			PENDING

PCK Reference	Country	Application Date	Title Text	Application Number	Registration Number	Registration Date	Status
P6912US00	UNITED STATES	2017-05-10	COMPUTERIZED DEVICE WITH VOICE COMMAND INPUT CAPABILITY	15/591188	10311870	2019-06-04	ISSUED
P6912US01	UNITED STATES	2019-04-23	COMPUTERIZED DEVICE WITH VOICE COMMAND INPUT CAPABILITY	16/391406			FINAL FEE DEADLINE
P7163US01	UNITED STATES	2018-08-24	HVAC SIGNALING OVER A TWO-WIRE CONNECTION	16/111384			RESPONSE TO OA
P7207US01	UNITED STATES	2018-09-24	LEAK DETECTOR WITH SENSING CABLE	16/139548			DECS/TO BE FILED
P7207US01	UNITED STATES	2018-09-24	LEAK DETECTOR WITH SENSING CABLE	16/139548			RESPONSE TO OA
P7562US01	UNITED STATES	2019-03-19	SMART LIGHT SWITCH WITH TEMPERATURE SENSING	16/357762			PENDING
P7564US01	UNITED STATES	2019-03-19	SMART LIGHT SWITCH WITH INTEGRATED SCHEDULING	16/357912			RESPONSE TO FINAL OA (2-MONTH DEADLINE)
P7565US01	UNITED STATES	2019-03-19	SMART LIGHT SWITCH WITH VACATION MODE	16/357989			FINAL FEE DEADLINE

PCK Reference	Country	Application Date	Title Text	Application Number	Registration Number	Registration Date	Status
P7565US01	UNITED STATES	2019-03-19	SMART LIGHT SWITCH WITH VACATION MODE	16/357989			DECLARATION/ ASSIGNMENT TO BE FILED
P7614US01	UNITED STATES	2019-04-05	CONTROL DEVICE FOR HVAC FAN COIL UNITS	16/376029			DECLS/ASSIGNME NTS TO BE FILED
P8343US00	UNITED STATES	2008-06-09	SYSTEM AND METHOD TO ROUTE AIRFLOW USING DYNAMICALLY CHANGING DUCTS	12/135239	9008844	2015-04-14	ISSUED
P8344US00	UNITED STATES	2015-11-23	DYNAMIC CONTROL OF SMART HOME USING WEARABLE DEVICE	14/948674	10250403	2019-04-02	ISSUED
P8344US01	UNITED STATES	2016-02-09	DYNAMIC CONTROL OF SMART HOME USING WEARABLE DEVICE	15/018943	9473321	2016-10-18	ANNUITY DEADLINE
P8344US02	UNITED STATES	2016-08-10	DYNAMIC CONTROL OF SMART HOME USING WEARABLE DEVICE	15/233366	9909772	2018-03-06	ISSUED



PCK Reference	Country	Application Date	Title Text	Application Number	Registration Number	Registration Date	Status
P8344US03	UNITED STATES	2017-08-14	DYNAMIC CONTROL OF SMART HOME USING WEARABLE DEVICE	15/675819	10072866	2018-09-11	ISSUED
P8344US04	UNITED STATES	2019-02-28	DYNAMIC CONTROL OF SMART HOME USING WEARABLE DEVICE	16/289051			RESPONSE TO OA
P8345US00	UNITED STATES	2012-08-01	MULTI-DIMENSIONAL HEATING AND COOLING SYSTEM	13/564006	9152154	2015-10-06	ISSUED
P8346US00	UNITED STATES	2012-07-02	INTELLIGENT AND COORDINATED LIGHTING OF A LIGHTING DEVICE	13/540012	9161419	2015-10-13	ISSUED
P8346US01	UNITED STATES	2015-08-06	INTELLIGENT AND COORDINATED LIGHTING OF A LIGHTING DEVICE	14/819555	9854645	2117-12-26	ISSUED
P8348US00	UNITED STATES	2013-01-30	ENTRY TECHNOLOGY FOR BUILDING AUTOMATION	13/754824	9196103	2015-11-24	ISSUED
P8348US01	UNITED STATES	2015-10-21	ENTRY TECHNOLOGY FOR BUILDING AUTOMATION	14/918882	9982472	2018-05-29	ISSUED

PCK Reference	Country	Application Date	Title Text	Application Number	Registration Number	Registration Date	Status
P8348US02	UNITED STATES	2018-03-08	ENTRY TECHNOLOGY FOR BUILDING AUTOMATION	15/915924	10309145	2019-06-04	ISSUED
P8349US00	UNITED STATES	2012-04-13	CONTROLLING COMMUNICATI ON AMONG MULTIPLE INDUSTRIAL CONTROL SYSTEMS	13/446172	8872638	2014-10-28	ISSUED
P8349US01	UNITED STATES	2012-09-06	CONTROLLING COMMUNICATI ON AMONG MULTIPLE INDUSTRIAL CONTROL SYSTEMS	13/604678	8732270	2014-05-20	ISSUED
P8356US00	UNITED STATES	2012-11-13	AUTOMATED AUTHORIZATIO N TO ACCESS SURVEILLANCE VIDEO BASED ON PRE-SPECIFIED EVENTS	13/675429	9041812	2015-05-26	ISSUED
P8356US01	UNITED STATES	2013-01-25	AUTOMATED AUTHORIZATIO N TO ACCESS SURVEILLANCE VIDEO BASED ON PRE-SPECIFIED EVENTS	13/675429	9041812	2015-11-17	ISSUED

PCK Reference	Country	Application Date	Title Text	Application Number	Registration Number	Registration Date	Status
P8359US00	UNITED STATES	2009-11-20	SYSTEM FOR ASSISTING WITH EXECUTION OF ACTIONS IN RESPONSE TO DETECTED EVENTS, METHOD FOR ASSISTING WITH EXECUTION OF ACTIONS IN RESPONSE TO DETECTED EVENTS, ASSISTING DEVICE, AND COMPUTER PROGRAM	12/622455	8516499	2013-08-20	ISSUED
P8362US00	UNITED STATES	2005-10-24	SYSTEM, METHOD AND PROGRAM PRODUCT FOR HOUSE AUTOMATION	11/257290	7308321	2007-12-11	ISSUED
P8366US00	UNITED STATES	2009-05-27	MONITORING PATTERNS OF MOTION	12/473181	8081082	2011-12-20	ISSUED
P8367US00	UNITED STATES	2014-09-30	REMOTE OBJECT SENSING IN VIDEO	14/502110	9270940	2016-02-23	ISSUED

PCK Reference	Country	Application Date	Title Text	Application Number	Registration Number	Registration Date	Status
P8368US00	UNITED STATES	2006-06-16	METHOD FOR SPATIO-TEMPORAL EVENT DETECTION USING COMPOSITE DEFINITIONS FOR CAMERA SYSTEMS	11/455210	7468662	2008-12-23	ISSUED
P8368US01	UNITED STATES	2008-06-04	METHOD FOR SPATIO-TEMPORAL EVENT DETECTION USING COMPOSITE DEFINITIONS FOR CAMERA SYSTEMS	12/132890	8134457	2012-03-13	ISSUED
P8375US00	UNITED STATES	2012-11-13	DISTRIBUTED CONTROL OF A HETEROGENEOUS VIDEO SURVEILLANCE NETWORK	13/675348	9681103	2017-06-13	ANNUITY DEADLINE
P8375US01	UNITED STATES	2013-01-25	DISTRIBUTED CONTROL OF A HETEROGENEOUS VIDEO SURVEILLANCE NETWORK	13/751013	9681104	2017-06-13	ANNUITY DEADLINE
P8375US02	UNITED STATES	2017-03-22	DISTRIBUTED CONTROL OF A HETEROGENEOUS VIDEO SURVEILLANCE NETWORK	15/465756			PENDING

PCK Reference	Country	Application Date	Title Text	Application Number	Registration Number	Registration Date	Status
P8376US00	UNITED STATES	2009-04-08	GROUP AWARE TRACKING OF PERSONAL PROPERTY WITHIN A BOUNDED ZONE	12/420652	8164443	2012-04-24	ISSUED
P8377US00	UNITED STATES	2007-12-10	NOTIFYING USERS OF DEVICE EVENTS IN A NETWORKED ENVIRONMENT	11/953554	7432805	2008-10-07	ISSUED
P8377US01	UNITED STATES	2008-07-24	NOTIFYING USERS OF DEVICE EVENTS IN A NETWORKED ENVIRONMENT	12/179147	7791472	2010-09-07	ISSUED
P8378US00	UNITED STATES	2014-05-22	IDENTIFYING A CHANGE IN A HOME ENVIRONMENT	14/284581	9355547	2016-05-31	ISSUED
P8378US01	UNITED STATES	2016-05-04	IDENTIFYING A CHANGE IN A HOME ENVIRONMENT	15/146378	9978290	2018-05-22	ISSUED
P8378US02	UNITED STATES	2016-05-04	IDENTIFYING A CHANGE IN A HOME ENVIRONMENT	15/146330	9984590	2018-05-29	ISSUED

PCK Reference	Country	Application Date	Title Text	Application Number	Registration Number	Registration Date	Status
P8404US00	UNITED STATES	2012-10-08	MONITORING USER POSITION TO DETERMINE A TIME FOR PROVIDING A SPECIFIED STATE AT A USER PREMISES	13/647234	9377791	2016-06-28	ISSUED
P8405US00	UNITED STATES	2015-12-30	PRO-ACTIVE BUILDING PROTECTION SYSTEM	14/985068	9382747	2016-07-05	ISSUED
P8405US01	UNITED STATES	2016-05-12	PRO-ACTIVE BUILDING PROTECTION SYSTEM	15/152606	9483933	2016-11-01	ANNUITY DEADLINE
P8407US00	UNITED STATES	2004-06-02	METHOD AND APPARATUS FOR REMOTE COMMAND, CONTROL AND DIAGNOSTICS OF SYSTEMS USING CONVERSATIONAL OR AUDIO INTERFACE	10/858083	8224649	2012-07-17	ISSUED
P8408US00	UNITED STATES	2012-11-14	DYNAMIC TEMPERATURE CONTROL FOR A ROOM CONTAINING A GROUP OF PEOPLE	13/676545	9465392	2016-10-11	ISSUED

**TRADEMARK**  
**REEL: 007652 FRAME: 0837**

PCK Reference	Country	Application Date	Title Text	Application Number	Registration Number	Registration Date	Status
P8409US00	UNITED STATES	2006-02-07	METHOD FOR PROVIDING A BROADCAST ENCRYPTON BASED HOME SECURITY SYSTEM	11/348902	8325923	2012-12-04	ISSUED
P8409US01	UNITED STATES	2012-09-14	METHOD FOR PROVIDING A BROADCAST ENCRYPTON BASED HOME SECURITY SYSTEM	13/620042	8724811	2014-05-13	ISSUED
P8410US00	UNITED STATES	2009-03-12	VIDEO PATTERN RECOGNITION FOR AUTOMATING EMERGENCY SERVICE INCIDENT AWARENESS AND RESPONSE	12/402626	8368754	2013-02-05	ANNUITY DEADLINE
P8411US00	UNITED STATES	2016-03-14	INTELLIGENT THERMOSTAT CONTROL SYSTEM	15/068921	9574786	2017-02-21	ANNUITY DEADLINE
P8411US01	UNITED STATES	2016-11-11	INTELLIGENT THERMOSTAT CONTROL SYSTEM	15/349114	9772115	2017-09-26	ISSUED
P8412US00	UNITED STATES	2013-03-14	INTERACTIVE ENERGY DEVICE FOR ENVIRONMENTAL STEWARDSHIP	13/826419	9599973	2017-03-21	ANNUITY DEADLINE

PCK Reference	Country	Application Date	Title Text	Application Number	Registration Number	Registration Date	Status
P8412US01	UNITED STATES	2013-08-20	INTERACTIVE ENERGY DEVICE FOR ENVIRONMENTAL STEWARDSHIP	13/971251	9733630	2017-08-15	ISSUED
P8413US00	UNITED STATES	2016-09-21	SURVEILLANCE DETECTION BASED ON AN IDENTIFICATION OF A CARRIED MOBILE DEVICE	15/271362	9693181	2017-06-27	ANNUITY DEADLINE
P8414US01	UNITED STATES	2005-07-28	SYSTEM AND METHOD FOR ALARM GENERATION BASED ON THE DETECTION OF THE PRESENCE OF A PERSON	11/495334	7554444	2009-06-30	ANNUITY DEADLINE
P8416US00	UNITED STATES	2016-04-28	FINE TUNING APPLICATION BEHAVIOR USING APPLICATION ZONES	15/141606	9733996	2017-08-15	ISSUED
P8417US00	UNITED STATES	2016-10-26	AUTOMATED NOTIFICATION MUTING RESPONSIVE TO PREDICTED LOCATION	15/334330	9756607	2017-09-05	ISSUED



PCK Reference	Country	Application Date	Title Text	Application Number	Registration Number	Registration Date	Status
P8418US00	UNITED STATES	2011-02-28	MANAGING EMERGENCY RESPONSE SERVICES USING MOBILE COMMUNICATION DEVICES	13/036612	8576066	2013-11-05	ISSUED
P8419US00	UNITED STATES	2016-10-24	LOCATION SPECIFIC IMAGE BASED AUTHENTICATION	15/332501	9811653	2017-11-07	ISSUED
P8419US01	UNITED STATES	2017-10-03	LOCATION SPECIFIC IMAGE BASED AUTHENTICATION	15/723468	10055569	2018-08-21	ISSUED
P8421US00	UNITED STATES	2007-01-11	AMBIENT PRESENTATION OF SURVEILLANCE DATA	11/622132	8704893	2014-04-22	ISSUED
P8421US01	UNITED STATES	2012-08-16	AMBIENT PRESENTATION OF SURVEILLANCE DATA	13/587038	8860812	2014-10-14	ISSUED

PCK Reference	Country	Application Date	Title Text	Application Number	Registration Number	Registration Date	Status
P8422US00	UNITED STATES	2012-07-31	METHOD FOR ON-DEMAND ENERGY SAVINGS BY LOWERING POWER USAGE OF AT LEAST ONE STORAGE DEVICE IN A MULTI-TIERED STORAGE SYSTEM	13/562626	8700932	2014-04-14	ISSUED
P8423US00	UNITED STATES	2011-03-21	CONTROLLING AND MINIMIZING ELECTRICAL POWER CONSUMED BY ELECTRICAL COMPONENTS CONNECTED TO A NETWORKED COMPUTING ENVIRONMENT	13/052754	8738943	2014-05-27	ISSUED
P8424US00	UNITED STATES	2012-01-11	MANAGING ENVIRONMENTAL CONTROL SYSTEM EFFICIENCY	13/348347	9024765	2015-05-05	ISSUED
P8425US00	UNITED STATES	2006-06-30	APPARATUS AND METHOD FOR MEASURING THE ACCURATE POSITION OF MOVING OBJECTS IN AN INDOOR ENVIRONMENT	11/428019	7761233	2010-07-20	ISSUED

PCK Reference	Country	Application Date	Title Text	Application Number	Registration Number	Registration Date	Status
P8429US00	UNITED STATES	2012-11-13	PROVIDING EMERGENCY ACCESS TO SURVEILLANCE VIDEO	13/675391	8934754	2015-01-13	ISSUED
P8429US01	UNITED STATES	2013-01-25	PROVIDING EMERGENCY ACCESS TO SURVEILLANCE VIDEO	13/751023	9071807	2015-06-30	ISSUED
P8430US00	UNITED STATES	2007-01-30	PERVASIVE NETWORK FOR ENVIRONMENTAL SENSING	11/668604	8762060	2014-06-24	ISSUED
P8430US01	UNITED STATES	2009-11-06	PERVASIVE NETWORK FOR ENVIRONMENTAL SENSING	12/613758	8805613	2014-08-12	ISSUED
P8898US00	UNITED STATES	2019-09-09	LIGHT SWITCH SYSTEM	62/897466			CONVENTION DEADLINE
P9481US00	UNITED STATES	2020-03-26	THERMOSTAT DEVICE WITH IMPROVED ENERGY OPTIMIZATION	62/994937			

**NOTICE OF SECURITY INTEREST IN INTELLECTUAL PROPERTY**

**WHEREAS** the undersigned (the “**Debtor**”), is the owner of the registered intellectual property set forth on **Schedule A** attached hereto (collectively, the “**Intellectual Property**”);

**AND WHEREAS** pursuant to a Note Purchase Agreement dated as of the date hereof (as amended, supplemented, restated or otherwise modified from time to time, the “**NPA**”), the Debtor has issued secured convertible promissory notes (the “**Notes**”) to the Investors.

**AND WHEREAS** pursuant to the NPA, the Debtor has entered into a General Security Agreement dated as of May 5, 2020 (as amended, supplemented, restated or otherwise modified from time to time, the “**GSA**”) in favour of **AST TRUST COMPANY (CANADA)**, as collateral agent (the “**Agent**”) in favour of the Investors and granted a security interest in favour of the Agent with respect to the Debtor’s interests in the Intellectual Property, among other collateral, as security for its obligations to the Investors under the NPA and the Notes.

**AND WHEREAS** capitalized terms used but not defined herein have the meanings assigned to them in the NPA.

**NOW THEREFORE**, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, and in accordance with the terms and obligations set forth in the Security Documents, the Debtor hereby confirms the granting of a security interest and lien in the Intellectual Property to the Agent.

**THE DEBTOR** hereby certifies that the aforementioned information as it relates to the Debtor is true and accurate.

**[Signature Page Follows]**

**DATED:** May 5, 2020

**ECOBEE INC.**

By:

DocuSigned by:

*Stuart Lombard*

Name: Stuart Lombard

Title: Chief Executive Officer

I have the authority to bind the  
company.

## SCHEDULE A

## INTELLECTUAL PROPERTY

## TRADEMARKS – Canada

Mark	Filing Date	App. No.	Reg. No.	Reg. Date	Owner
ECOBEE & Design	01-Feb-08	1381717	TMA754845	08-Dec-09	ECOBEE INC.
ECOBEE	01-Feb-08	1381716	TMA737236	31-Mar-09	ECOBEE INC.
DATARHYTHM TECHNOLOGIES	20-Aug-12	1590783	TMA912159	24-Aug-15	ECOBEE INC.
DATARHYTHM	29-Aug-12	1592098	TMA913931	15-Sep-15	ECOBEE INC.
HOME IQ	29-Aug-12	1592099	TMA913939	15-Sep-15	ECOBEE INC.
ECOBEE3	10-Apr-14	1672336	TMA969873	3-May-15	ECOBEE INC.
FOR HOMES WITH MORE THAN ONE ROOM	10-Apr-14	1672337	TMA969566	1-May-15	ECOBEE INC.
ECOBEE3 LITE	10-Feb-17	1822346	TMA1012523	09-Jan-19	ECOBEE INC.
ECOBEE4 SMART THERMOSTAT	10-Feb-17	1822347	TMA1069407	14-Jan-20	ECOBEE INC.
ECOBEE4	10-Feb-17	1822350	TMA1064338	2019-11-26	ECOBEE INC.
ECOBEE3 LITE SMART THERMOSTAT	10-Feb-17	1822351	TMA1012526	09-Jan-19	ECOBEE INC.
WHOLE HOME VOICE	18-May-17	1838331	N/A	N/A	ECOBEE INC.
SWITCH+	5-Feb-18	1881441	N/A	N/A	ECOBEE INC.
ECOBEE SWITCH+	5-Feb-18	1881442	TMA1018537	2-Apr-19	ECOBEE INC.
E (design)	9-Mar-20	2016327	N/A	N/A	ECOBEE INC.
ECOBEE HAVEN	9-Mar-20	2016328	N/A	N/A	ECOBEE INC.
ECOBEE logo	9-Mar-20	2016330	N/A	N/A	ECOBEE INC.

## TRADEMARKS - U.S.A.

Mark	Filing Date	App. No.	Reg. No.	Reg. Date	Owner
GREEN MADE EASY	22-Nov-10	85/182,334	4,159,889	19-Jun-12	ECOBEE INC.
ECOBEE	6-Feb-08	77/390,082	3,710,918	17-Nov-09	ECOBEE INC.
ECOBEE (and Design)	6-Feb-08	77/390,141	3,795,396	1-Jun-10	ECOBEE INC.
DATARHYTHM	29-Aug-12	85/715,922	4,585,057	12-Aug-15	ECOBEE INC.
ECOBEE SMART THERMOSTAT	8-Dec-11	85/490,282	4,212,997	25-Sept-12	ECOBEE INC.
ECOBEE SMART	8-Dec-11	85/490,252	4,451,834	17-Dec-13	ECOBEE INC.
ECOBEE EMS	8-Apr-11	85/490,325	4,201,387	4-Sept-12	ECOBEE INC.
ECOBEE3	10-Apr-14	86/249,171	4,757,295	16-Jun-15	ECOBEE INC.
FOR HOMES WITH MORE THAN ONE ROOM	9-Jul-15	86/249,173	4,797,795	25-Aug-15	ECOBEE INC.
DONATE YOUR DATA	3-Jul-16	87/1,808,94	5,509,131	3-Jul-18	ECOBEE INC.
ECOBEE3 LITE	6-Mar-17	87,360,243	5,778,367	18-Jun-19	ECOBEE INC.
ECOBEE4	6-Mar-17	87/359,580	N/A	N/A	ECOBEE INC.
SWITCH+	8-Feb-18	87/790,524	N/A	N/A	ECOBEE INC.
WHOLE HOME VOICE	31-Aug-17	87/591,544	N/A	N/A	ECOBEE INC.
ECOBEE SWITCH+	8-FEB-18	87/790,509	N/A	N/A	ECOBEE INC.
ECOBEE HAVEN	24-MAR-20	88/845,798	N/A	N/A	ECOBEE INC.
Bee logo (Design)	6-Mar-17	87/359,562	5,296,228	26-Sep-17	ECOBEE INC.

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None.



## PATENTS

## PATENTS – CANADA

## Design

PKK Reference	Country	Application Date	Title Text	Application Number	Registration Number	Registration Date	Status
D1387CA00	CANADA	2017-08-31	THERMOSTAT DEVICE WITH TRIM PLATE	176743	176743	2018-07-05	ISSUED
D1389CA00	CANADA	2017-10-27	SWITCH WITH TRIM PLATE	177893	177893	2019-04-23	ISSUED
D1459CA00	CANADA	2018-04-27	SWITCH WITH TRIM PLATE	181086	181086	2019-04-23	ISSUED
D1507CA00	CANADA	2019-06-27	REMOTE SENSOR DEVICE	188481			PENDING

## Patent

PKK Reference	Country	Application Date	Title Text	Application Number	Registration Number	Registration Date	Status
P6163CA00	CANADA	2017-10-02	CONTROL DEVICE WITH CURRENT PROTECTED SOLID STATE RELAYS	2981023			ANNUITY DEADLINE
P6912CA00	CANADA	2019-11-08	COMPUTERIZED DEVICE WITH VOICE COMMAND INPUT CAPABILITY	3063045			PENDING

PKC Reference	Country	Application Date	Title Text	Application Number	Registration Number	Registration Date	Status
P7163CA00	CANADA	2018-08-24	HVAC SIGNALING OVER A TWO-WIRE CONNECTION	3015330			ANNUITY DEADLINE
P7207CA00	CANADA	2018-09-24	LEAK DETECTOR WITH SENSING CABLE	3018288			ANNUITY DEADLINE
P7562CA00	CANADA	2019-03-19	SMART LIGHT SWITCH WITH TEMPERATURE SENSING	3037165			PENDING
P7564CA00	CANADA	2019-03-19	SMART LIGHT SWITCH WITH INTEGRATED SCHEDULING	3037177			PENDING
P7565CA00	CANADA	2019-03-19	SMART LIGHT SWITCH WITH VACATION MODE	3037170			PENDING
P7614CA00	CANADA	2019-04-05	CONTROL DEVICE FOR HVAC FAN COIL UNITS	3039300			PENDING

**PATENTS – U.S.A.**

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Notice of Security Interest in Intellectual Property

## Design

	Country	Application Date	Title Text	Application Number	Registration Number	Registration Date	Status
D1194US00	UNITED STATES	2013-10-22	THERMOSTAT DEVICE WITH LOW PROFILE TRIM PLATE	29/470529	D734178	2015-07-14	ISSUED
D1387US00	UNITED STATES	2017-04-07	THERMOSTAT DEVICE	29/599864	D833893	2018-11-20	ISSUED
D1387US01	UNITED STATES	2018-09-21	THERMOSTAT DEVICE WITH TRIM PLATE	29/664127			ISSUED
D1389US01	UNITED STATES	2018-03-21	SWITCH WITH TRIM PLATE	29/641301			ISSUED
D1389US02	UNITED STATES	2019-05-23	SWITCH WITH TRIM PLATE	29/692228			RESPONSE TO OA
D1507US00	UNITED STATES	2018-12-31	REMOTE SENSOR DEVICE	29/675346			DECS/ASSIGNMENTS TO BE FILED
D1512US00	UNITED STATES	2019-02-13	CAMERA DEVICE AND STAND	29/680117			PENDING
D1516US00	UNITED STATES	2019-02-28	SWITCH WITH TRIM PLATE	29/681876			ISSUED
D1574US00	UNITED STATES	2020-01-10	CONTACT SENSORS FOR DOORS AND WINDOWS	29/720269			CONVENTION DEADLINE

## Patent

PKR Reference	Country	Application Date	Title Text	Application Number	Registration Number	Registration Date	Status
P3212US00	UNITED STATES	2011-07-11	HVAC CONTROLLER WITH PREDICTIVE SET-POINT CONTROL	13/179770	9696052	2017-07-04	ISSUED
P3213US00	UNITED STATES	2011-07-11	HVAC CONTROLLER WITH DYNAMIC TEMPERATURE COMPENSATION	13/179912	9016593	2015-04-28	ISSUED
P3396US00	UNITED STATES	2012-01-10	HVAC CONTROLLER WITH DEVICE SCHEDULING PROGRAM	13/347105	8965585	2015-02-24	ISSUED
P6163US00	UNITED STATES	2016-10-13	CONTROL DEVICE WITH CURRENT PROTECTED SOLID STATE RELAYS	15/292648	10215432	2019-02-26	ISSUED
P6163US01	UNITED STATES	2018-01-24	CONTROL DEVICE WITH BULK HEATING COMPENSATION	15/878977			ISSUED
P6163US02	UNITED STATES	2019-07-22	CONTROL DEVICE WITH CURRENT PROTECTED SOLID STATE RELAYS	16/518102			PENDING

PCK Reference	Country	Application Date	Title Text	Application Number	Registration Number	Registration Date	Status
P6912US00	UNITED STATES	2017-05-10	COMPUTERIZED DEVICE WITH VOICE COMMAND INPUT CAPABILITY	15/591188	10311870	2019-06-04	ISSUED
P6912US01	UNITED STATES	2019-04-23	COMPUTERIZED DEVICE WITH VOICE COMMAND INPUT CAPABILITY	16/391406			FINAL FEE DEADLINE
P7163US01	UNITED STATES	2018-08-24	HVAC SIGNALING OVER A TWO-WIRE CONNECTION	16/111384			RESPONSE TO OA
P7207US01	UNITED STATES	2018-09-24	LEAK DETECTOR WITH SENSING CABLE	16/139548			DECS/TO BE FILED
P7207US01	UNITED STATES	2018-09-24	LEAK DETECTOR WITH SENSING CABLE	16/139548			RESPONSE TO OA
P7562US01	UNITED STATES	2019-03-19	SMART LIGHT SWITCH WITH TEMPERATURE SENSING	16/357762			PENDING
P7564US01	UNITED STATES	2019-03-19	SMART LIGHT SWITCH WITH INTEGRATED SCHEDULING	16/357912			RESPONSE TO FINAL OA (2-MONTH DEADLINE)
P7565US01	UNITED STATES	2019-03-19	SMART LIGHT SWITCH WITH VACATION MODE	16/357989			FINAL FEE DEADLINE

PCK Reference	Country	Application Date	Title Text	Application Number	Registration Number	Registration Date	Status
P7565US01	UNITED STATES	2019-03-19	SMART LIGHT SWITCH WITH VACATION MODE	16/357989			DECLARATION/ ASSIGNMENT TO BE FILED
P7614US01	UNITED STATES	2019-04-05	CONTROL DEVICE FOR HVAC FAN COIL UNITS	16/376029			DECLS/ASSIGNME NTS TO BE FILED
P8343US00	UNITED STATES	2008-06-09	SYSTEM AND METHOD TO ROUTE AIRFLOW USING DYNAMICALLY CHANGING DUCTS	12/135239	9008844	2015-04-14	ISSUED
P8344US00	UNITED STATES	2015-11-23	DYNAMIC CONTROL OF SMART HOME USING WEARABLE DEVICE	14/948674	10250403	2019-04-02	ISSUED
P8344US01	UNITED STATES	2016-02-09	DYNAMIC CONTROL OF SMART HOME USING WEARABLE DEVICE	15/018943	9473321	2016-10-18	ANNUITY DEADLINE
P8344US02	UNITED STATES	2016-08-10	DYNAMIC CONTROL OF SMART HOME USING WEARABLE DEVICE	15/233366	9909772	2018-03-06	ISSUED

PCK Reference	Country	Application Date	Title Text	Application Number	Registration Number	Registration Date	Status
P8344US03	UNITED STATES	2017-08-14	DYNAMIC CONTROL OF SMART HOME USING WEARABLE DEVICE	15/675819	10072866	2018-09-11	ISSUED
P8344US04	UNITED STATES	2019-02-28	DYNAMIC CONTROL OF SMART HOME USING WEARABLE DEVICE	16/289051			RESPONSE TO OA
P8345US00	UNITED STATES	2012-08-01	MULTI-DIMENSIONAL HEATING AND COOLING SYSTEM	13/564006	9152154	2015-10-06	ISSUED
P8346US00	UNITED STATES	2012-07-02	INTELLIGENT AND COORDINATED LIGHTING OF A LIGHTING DEVICE	13/540012	9161419	2015-10-13	ISSUED
P8346US01	UNITED STATES	2015-08-06	INTELLIGENT AND COORDINATED LIGHTING OF A LIGHTING DEVICE	14/819555	9854645	2117-12-26	ISSUED
P8348US00	UNITED STATES	2013-01-30	ENTRY TECHNOLOGY FOR BUILDING AUTOMATION	13/754824	9196103	2015-11-24	ISSUED
P8348US01	UNITED STATES	2015-10-21	ENTRY TECHNOLOGY FOR BUILDING AUTOMATION	14/918882	9982472	2018-05-29	ISSUED

PCK Reference	Country	Application Date	Title Text	Application Number	Registration Number	Registration Date	Status
P8348US02	UNITED STATES	2018-03-08	ENTRY TECHNOLOGY FOR BUILDING AUTOMATION	15/915924	10309145	2019-06-04	ISSUED
P8349US00	UNITED STATES	2012-04-13	CONTROLLING COMMUNICATI ON AMONG MULTIPLE INDUSTRIAL CONTROL SYSTEMS	13/446172	8872638	2014-10-28	ISSUED
P8349US01	UNITED STATES	2012-09-06	CONTROLLING COMMUNICATI ON AMONG MULTIPLE INDUSTRIAL CONTROL SYSTEMS	13/604678	8732270	2014-05-20	ISSUED
P8356US00	UNITED STATES	2012-11-13	AUTOMATED AUTHORIZATIO N TO ACCESS SURVEILLANCE VIDEO BASED ON PRE-SPECIFIED EVENTS	13/675429	9041812	2015-05-26	ISSUED
P8356US01	UNITED STATES	2013-01-25	AUTOMATED AUTHORIZATIO N TO ACCESS SURVEILLANCE VIDEO BASED ON PRE-SPECIFIED EVENTS	13/675429	9041812	2015-11-17	ISSUED



PCK Reference	Country	Application Date	Title Text	Application Number	Registration Number	Registration Date	Status
P8359US00	UNITED STATES	2009-11-20	SYSTEM FOR ASSISTING WITH EXECUTION OF ACTIONS IN RESPONSE TO DETECTED EVENTS, METHOD FOR ASSISTING WITH EXECUTION OF ACTIONS IN RESPONSE TO DETECTED EVENTS, ASSISTING DEVICE, AND COMPUTER PROGRAM	12/622455	8516499	2013-08-20	ISSUED
P8362US00	UNITED STATES	2005-10-24	SYSTEM, METHOD AND PROGRAM PRODUCT FOR HOUSE AUTOMATION	11/257290	7308321	2007-12-11	ISSUED
P8366US00	UNITED STATES	2009-05-27	MONITORING PATTERNS OF MOTION	12/473181	8081082	2011-12-20	ISSUED
P8367US00	UNITED STATES	2014-09-30	REMOTE OBJECT SENSING IN VIDEO	14/502110	9270940	2016-02-23	ISSUED

PCK Reference	Country	Application Date	Title Text	Application Number	Registration Number	Registration Date	Status
P8368US00	UNITED STATES	2006-06-16	METHOD FOR SPATIO-TEMPORAL EVENT DETECTION USING COMPOSITE DEFINITIONS FOR CAMERA SYSTEMS	11/455210	7468662	2008-12-23	ISSUED
P8368US01	UNITED STATES	2008-06-04	METHOD FOR SPATIO-TEMPORAL EVENT DETECTION USING COMPOSITE DEFINITIONS FOR CAMERA SYSTEMS	12/132890	8134457	2012-03-13	ISSUED
P8375US00	UNITED STATES	2012-11-13	DISTRIBUTED CONTROL OF A HETEROGENEOUS VIDEO SURVEILLANCE NETWORK	13/675348	9681103	2017-06-13	ANNUITY DEADLINE
P8375US01	UNITED STATES	2013-01-25	DISTRIBUTED CONTROL OF A HETEROGENEOUS VIDEO SURVEILLANCE NETWORK	13/751013	9681104	2017-06-13	ANNUITY DEADLINE
P8375US02	UNITED STATES	2017-03-22	DISTRIBUTED CONTROL OF A HETEROGENEOUS VIDEO SURVEILLANCE NETWORK	15/465756			PENDING

PCK Reference	Country	Application Date	Title Text	Application Number	Registration Number	Registration Date	Status
P8376US00	UNITED STATES	2009-04-08	GROUP AWARE TRACKING OF PERSONAL PROPERTY WITHIN A BOUNDED ZONE	12/420652	8164443	2012-04-24	ISSUED
P8377US00	UNITED STATES	2007-12-10	NOTIFYING USERS OF DEVICE EVENTS IN A NETWORKED ENVIRONMENT	11/953554	7432805	2008-10-07	ISSUED
P8377US01	UNITED STATES	2008-07-24	NOTIFYING USERS OF DEVICE EVENTS IN A NETWORKED ENVIRONMENT	12/179147	7791472	2010-09-07	ISSUED
P8378US00	UNITED STATES	2014-05-22	IDENTIFYING A CHANGE IN A HOME ENVIRONMENT	14/284581	9355547	2016-05-31	ISSUED
P8378US01	UNITED STATES	2016-05-04	IDENTIFYING A CHANGE IN A HOME ENVIRONMENT	15/146378	9978290	2018-05-22	ISSUED
P8378US02	UNITED STATES	2016-05-04	IDENTIFYING A CHANGE IN A HOME ENVIRONMENT	15/146330	9984590	2018-05-29	ISSUED

PCK Reference	Country	Application Date	Title Text	Application Number	Registration Number	Registration Date	Status
P8404US00	UNITED STATES	2012-10-08	MONITORING USER POSITION TO DETERMINE A TIME FOR PROVIDING A SPECIFIED STATE AT A USER PREMISES	13/647234	9377791	2016-06-28	ISSUED
P8405US00	UNITED STATES	2015-12-30	PRO-ACTIVE BUILDING PROTECTION SYSTEM	14/985068	9382747	2016-07-05	ISSUED
P8405US01	UNITED STATES	2016-05-12	PRO-ACTIVE BUILDING PROTECTION SYSTEM	15/152606	9483933	2016-11-01	ANNUITY DEADLINE
P8407US00	UNITED STATES	2004-06-02	METHOD AND APPARATUS FOR REMOTE COMMAND, CONTROL AND DIAGNOSTICS OF SYSTEMS USING CONVERSATIONAL OR AUDIO INTERFACE	10/858083	8224649	2012-07-17	ISSUED
P8408US00	UNITED STATES	2012-11-14	DYNAMIC TEMPERATURE CONTROL FOR A ROOM CONTAINING A GROUP OF PEOPLE	13/676545	9465392	2016-10-11	ISSUED

PCK Reference	Country	Application Date	Title Text	Application Number	Registration Number	Registration Date	Status
P8409US00	UNITED STATES	2006-02-07	METHOD FOR PROVIDING A BROADCAST ENCRYPTON BASED HOME SECURITY SYSTEM	11/348902	8325923	2012-12-04	ISSUED
P8409US01	UNITED STATES	2012-09-14	METHOD FOR PROVIDING A BROADCAST ENCRYPTON BASED HOME SECURITY SYSTEM	13/620042	8724811	2014-05-13	ISSUED
P8410US00	UNITED STATES	2009-03-12	VIDEO PATTERN RECOGNITION FOR AUTOMATING EMERGENCY SERVICE INCIDENT AWARENESS AND RESPONSE	12/402626	8368754	2013-02-05	ANNUITY DEADLINE
P8411US00	UNITED STATES	2016-03-14	INTELLIGENT THERMOSTAT CONTROL SYSTEM	15/068921	9574786	2017-02-21	ANNUITY DEADLINE
P8411US01	UNITED STATES	2016-11-11	INTELLIGENT THERMOSTAT CONTROL SYSTEM	15/349114	9772115	2017-09-26	ISSUED
P8412US00	UNITED STATES	2013-03-14	INTERACTIVE ENERGY DEVICE FOR ENVIRONMENTAL STEWARDSHIP	13/826419	9599973	2017-03-21	ANNUITY DEADLINE

PCK Reference	Country	Application Date	Title Text	Application Number	Registration Number	Registration Date	Status
P8412US01	UNITED STATES	2013-08-20	INTERACTIVE ENERGY DEVICE FOR ENVIRONMENTAL STEWARDSHIP	13/971251	9733630	2017-08-15	ISSUED
P8413US00	UNITED STATES	2016-09-21	SURVEILLANCE DETECTION BASED ON AN IDENTIFICATION OF A CARRIED MOBILE DEVICE	15/271362	9693181	2017-06-27	ANNUITY DEADLINE
P8414US01	UNITED STATES	2005-07-28	SYSTEM AND METHOD FOR ALARM GENERATION BASED ON THE DETECTION OF THE PRESENCE OF A PERSON	11/495334	7554444	2009-06-30	ANNUITY DEADLINE
P8416US00	UNITED STATES	2016-04-28	FINE TUNING APPLICATION BEHAVIOR USING APPLICATION ZONES	15/141606	9733996	2017-08-15	ISSUED
P8417US00	UNITED STATES	2016-10-26	AUTOMATED NOTIFICATION MULTING RESPONSIVE TO PREDICTED LOCATION	15/334330	9756607	2017-09-05	ISSUED

PCK Reference	Country	Application Date	Title Text	Application Number	Registration Number	Registration Date	Status
P8418US00	UNITED STATES	2011-02-28	MANAGING EMERGENCY RESPONSE SERVICES USING MOBILE COMMUNICATION DEVICES	13/036612	8576066	2013-11-05	ISSUED
P8419US00	UNITED STATES	2016-10-24	LOCATION SPECIFIC IMAGE BASED AUTHENTICATION	15/332501	9811653	2017-11-07	ISSUED
P8419US01	UNITED STATES	2017-10-03	LOCATION SPECIFIC IMAGE BASED AUTHENTICATION	15/723468	10055569	2018-08-21	ISSUED
P8421US00	UNITED STATES	2007-01-11	AMBIENT PRESENTATION OF SURVEILLANCE DATA	11/622132	8704893	2014-04-22	ISSUED
P8421US01	UNITED STATES	2012-08-16	AMBIENT PRESENTATION OF SURVEILLANCE DATA	13/587038	8860812	2014-10-14	ISSUED

PCK Reference	Country	Application Date	Title Text	Application Number	Registration Number	Registration Date	Status
P8422US00	UNITED STATES	2012-07-31	METHOD FOR ON-DEMAND ENERGY SAVINGS BY LOWERING POWER USAGE OF AT LEAST ONE STORAGE DEVICE IN A MULTI-TIERED STORAGE SYSTEM	13/562626	8700932	2014-04-14	ISSUED
P8423US00	UNITED STATES	2011-03-21	CONTROLLING AND MINIMIZING ELECTRICAL POWER CONSUMED BY ELECTRICAL COMPONENTS CONNECTED TO A NETWORKED COMPUTING ENVIRONMENT	13/052754	8738943	2014-05-27	ISSUED
P8424US00	UNITED STATES	2012-01-11	MANAGING ENVIRONMENTAL CONTROL SYSTEM EFFICIENCY	13/348347	9024765	2015-05-05	ISSUED
P8425US00	UNITED STATES	2006-06-30	APPARATUS AND METHOD FOR MEASURING THE ACCURATE POSITION OF MOVING OBJECTS IN AN INDOOR ENVIRONMENT	11/428019	7761233	2010-07-20	ISSUED



PCK Reference	Country	Application Date	Title Text	Application Number	Registration Number	Registration Date	Status
P8429US00	UNITED STATES	2012-11-13	PROVIDING EMERGENCY ACCESS TO SURVEILLANCE VIDEO	13/675391	8934754	2015-01-13	ISSUED
P8429US01	UNITED STATES	2013-01-25	PROVIDING EMERGENCY ACCESS TO SURVEILLANCE VIDEO	13/751023	9071807	2015-06-30	ISSUED
P8430US00	UNITED STATES	2007-01-30	PERVASIVE NETWORK FOR ENVIRONMENTAL SENSING	11/668604	8762060	2014-06-24	ISSUED
P8430US01	UNITED STATES	2009-11-06	PERVASIVE NETWORK FOR ENVIRONMENTAL SENSING	12/613758	8805613	2014-08-12	ISSUED
P8898US00	UNITED STATES	2019-09-09	LIGHT SWITCH SYSTEM	62/897466			CONVENTION DEADLINE
P9481US00	UNITED STATES	2020-03-26	THERMOSTAT DEVICE WITH IMPROVED ENERGY OPTIMIZATION	62/994937			