TRADEMARK ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

ETAS ID: TM842410

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	SECURITY INTEREST

CONVEYING PARTY DATA

Name	Formerly	Execution Date	Entity Type
Halio, Inc.		09/25/2023	Corporation: DELAWARE

RECEIVING PARTY DATA

Name:	Plutus Capital NY, Inc.
Street Address:	55 East 59th Street, 10th Floor
City:	New York
State/Country:	NEW YORK
Postal Code:	10022
Entity Type:	Corporation: DELAWARE

PROPERTY NUMBERS Total: 7

Property Type	Number	Word Mark
Registration Number:	6239906	HALIO
Serial Number:	87510336	HALIOLIFE
Serial Number:	87518158	HALIO
Registration Number:	5783335	HALIO
Registration Number:	5663181	HALIO
Serial Number:	88594890	HALIO SPECTRUM
Serial Number:	88594897	HALIO ASPIRE

CH $190.00 6239906

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.

Phone: 1.212.841.1220
Email: trademarks@cov.com
Correspondent Name: Ronald Hewitt
Address Line 1: 620 Eighth Avenue
Address Line 2: Covington & Burling LLP
Address Line 4: New York, NEW YORK 10018-1405

NAME OF SUBMITTER:	Ronald Hewitt / NY Bar Member
SIGNATURE:	/Ronald Hewitt/
DATE SIGNED:	09/27/2023

Total Attachments: 28
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INTELLECTUAL PROPERTY SECURITY AGREEMENT

This INTELLECTUAL PROPERTY SECURITY AGREEMENT (as amended, modified, supplemented, renewed, restated or replaced from time to time, this "***IP Security Agreement***"), dated as of September 25, 2023 is made by Halio, Inc., a Delaware corporation (the "***Company***"), in favor of Plutus Capital NY, Inc., as agent for the secured parties (together with their successors and assigns, the "***Secured Parties***"), in connection with that certain Security Agreement (as defined below). All capitalized terms not otherwise defined herein shall have the meanings respectively ascribed thereto in the Security Agreement.

WHEREAS, the Company has issued or will issue to the Secured Parties certain senior secured notes (as such notes may be amended, modified, supplemented, renewed, restated and/or replaced from time to time in accordance with their terms, the "***Notes***");

WHEREAS, the Company has executed and delivered that certain Security Agreement, dated as of the date hereof, made by and among the Company, certain of the Company's subsidiaries party thereto from time to time and the Secured Parties (as may be amended, modified, supplemented, renewed, restated and/or replaced from time to time, the "***Security Agreement***");

WHEREAS, under the terms of the Security Agreement, the Company has granted to the Secured Parties a security interest in, among other property, certain intellectual property of the Company, and has agreed as a condition thereof to execute this IP Security Agreement for recording with the U.S. Patent and Trademark Office, the United States Copyright Office and other governmental authorities; and

WHEREAS, the Company has determined that the execution, delivery and performance of this IP Security Agreement directly benefits, and is in the best interest of, the Company.

NOW, THEREFORE, in consideration of the premises and the agreements herein and in order to induce the Noteholders and the Secured Parties to perform under the Notes, the Company agrees as follows:

SECTION 1. Grant of Security. The Company hereby grants to the Secured Parties a security interest in all of the Company's right, title and interest in and to the following (the "***Collateral***"):

(i) the Patents and Patent applications set forth in Schedule A hereto;

(ii) the Trademark and service mark registrations and applications set forth in Schedule B hereto (provided that no security interest shall be granted in United States intent-to-use trademark applications to the extent that, and solely during the period in which, the grant of a security interest therein would impair the validity or enforceability of such intent-to-use trademark applications under applicable federal law), together with the goodwill symbolized thereby;

(iii) all Copyrights, whether registered or unregistered, now owned or hereafter acquired by the Company, including, without limitation, the copyright registrations and applications and exclusive copyright licenses set forth in Schedule C hereto;

(iv) all reissues, divisions, continuations, continuations-in-part, extensions, renewals and reexaminations, post-grant proceedings of any of the foregoing, all rights in the foregoing provided by international treaties or conventions, all rights corresponding thereto throughout the world and all other rights of any kind whatsoever of the Company accruing thereunder or pertaining thereto;

(v) any and all trade secrets, and any and all intellectual property rights in computer software and computer software products now or hereafter existing, created, acquired or held;

(vi) any licenses or other rights to use any of the Copyrights, Patents, Trademarks, or trade secrets and all license fees and royalties arising from such use to the extent permitted by such license or rights;

(vii) any and all claims for damages and injunctive relief for past, present and future infringement, dilution, misappropriation, violation, misuse or breach with respect to any of the foregoing, with the right, but not the obligation, to sue for and collect, or otherwise recover, such damages; and

(viii) any and all proceeds of, collateral for, income, royalties and other payments now or hereafter due and payable with respect to, and supporting obligations relating to, any and all of the Collateral of or arising from any of the foregoing.

SECTION 2. Security for Obligations. The grant of a security interest in the Collateral by the Company under this IP Security Agreement secures the payment of all Obligations of the Company now or hereafter existing under or in respect of the Notes and the Transaction Documents, whether direct or indirect, absolute or contingent, and whether for principal, reimbursement obligations, interest, premiums, penalties, fees, indemnifications, contract causes of action, costs, expenses or otherwise.

SECTION 3. Recordation. The Company authorizes and requests that the Register of Copyrights, the Commissioner for Patents and the Commissioner for Trademarks and any other applicable government officer record this IP Security Agreement.

SECTION 4. Execution in Counterparts. This IP Security Agreement may be executed in any number of counterparts, each of which when so executed shall be deemed to be an original and all of which taken together shall constitute one and the same agreement.

SECTION 5. Grants, Rights and Remedies. This IP Security Agreement has been entered into in conjunction with the provisions of the Security Agreement. The Company hereby acknowledges and confirms that the grant of the security interest hereunder to, and the rights and remedies of, the Secured Parties with respect to the Collateral are more fully set forth in the Security Agreement, the terms and provisions of which are incorporated herein by reference as if fully set forth herein, and that the security interest granted hereby has been granted in furtherance of, and not in limitation of, the security interest granted to the Secured Parties under the Security Agreement.

SECTION 6. Governing Law; Jurisdiction: Notice; Jury Trial.

(i) All questions concerning the construction, validity, enforcement and interpretation of this IP Security Agreement shall be governed by the internal laws of the State of New York, without giving effect to any choice of law or conflict of law provision or rule (whether of the State of New York or any other jurisdictions) that would cause the application of the laws of any jurisdictions other than the State of New York.

(ii) ANY LITIGATION BASED HEREON, OR ARISING OUT OF, UNDER, OR IN CONNECTION WITH THIS IP SECURITY AGREEMENT, SHALL BE BROUGHT AND MAINTAINED EXCLUSIVELY IN THE COURTS OF THE STATE OF NEW YORK OR IN THE STATE AND FEDERAL COURTS SITTING IN THE CITY OF NEW YORK, BOROUGH OF MANHATTAN; PROVIDED THAT ANY SUIT

SEEKING ENFORCEMENT AGAINST ANY COLLATERAL OR OTHER PROPERTY MAY BE BROUGHT, AT THE SECURED PARTYS' OPTION, IN THE COURTS OF ANY JURISDICTION WHERE SUCH COLLATERAL OR OTHER PROPERTY MAY BE FOUND. EACH DEBTOR HEREBY EXPRESSLY AND IRREVOCABLY SUBMITS TO THE JURISDICTION OF THE COURTS OF THE STATE OF NEW YORK AND OF THE STATE AND FEDERAL COURTS SITTING IN THE CITY OF NEW YORK, BOROUGH OF MANHATTAN FOR THE PURPOSE OF ANY SUCH LITIGATION AS SET FORTH ABOVE. THE COMPANY FURTHER IRREVOCABLY CONSENTS TO THE SERVICE OF PROCESS BY REGISTERED MAIL, POSTAGE PREPAID, OR BY PERSONAL SERVICE WITHIN OR WITHOUT THE STATE OF NEW YORK. THE COMPANY HEREBY EXPRESSLY AND IRREVOCABLY WAIVES, TO THE FULLEST EXTENT PERMITTED BY LAW, ANY OBJECTION WHICH IT MAY NOW OR HEREAFTER HAVE TO THE LAYING OF VENUE OF ANY SUCH LITIGATION BROUGHT IN ANY SUCH COURT REFERRED TO ABOVE AND ANY CLAIM THAT ANY SUCH LITIGATION HAS BEEN BROUGHT IN AN INCONVENIENT FORUM.

(iii) All notices, approvals, requests, demands and other communications hereunder shall be delivered or made in the manner set forth in, and shall be effective in accordance with the terms of, the Security Agreement. The Company and the Secured Parties may change their respective notice addresses by written notice given to each other party five (5) days prior to the effectiveness of such change.

(iv) WAIVER OF JURY TRIAL, ETC. THE COMPANY IRREVOCABLY WAIVES ANY RIGHT IT MAY HAVE TO, AND AGREES NOT TO REQUEST, A JURY TRIAL FOR THE ADJUDICATION OF ANY DISPUTE HEREUNDER OR UNDER ANY OTHER TRANSACTION DOCUMENT OR IN CONNECTION WITH OR ARISING OUT OF THIS IP SECURITY AGREEMENT, ANY OTHER TRANSACTION DOCUMENT OR ANY TRANSACTION CONTEMPLATED HEREBY OR THEREBY.

(v) Each party irrevocably and unconditionally waives any right it may have to claim or recover in any legal action, suit or proceeding referred to in this Section any special, exemplary, indirect, incidental, punitive or consequential damages.

[*Signature Pages Follow*]

IN WITNESS WHEREOF, the parties hereto have caused this IP Security Agreement to be duly executed and delivered as of the day and year first above written.

COMPANY:

HALIO, INC.

By: Bruce Sohn
Name: Bruce Sohn
Title: Chief Executive Officer

IN WITNESS WHEREOF, the parties hereto have caused this IP Security Agreement to be duly executed and delivered as of the day and year first above written.

AGENT FOR THE SECURED PARTIES:

PLUTUS CAPITAL NY, INC.

By: JUNG HYUN NAM

Name: Jung Hyun Nam

Title: Chief Executive Officer

SCHEDULE A

(Patents)

Title	Application #	Patent #	Status	Country
SECURITY FOCUSED SYSTEM FOR SMART WINDOWS	16/820,380	11066872	Issued	United States of America
CLOUD-BASED COMPONENT LINKING IN A SMART WINDOW SYSTEM	16/786,719	11056074	Issued	United States of America
LASER CUTTING STRENGTHENED GLASS	16/363,903	11054712	Issued	United States of America
SMART DRIVER	16/806,859	10997383	Issued	United States of America
Driver for electrochromic glass cell	201680011036.7	ZL201680011036.7	Issued	China
BUILDING MODEL GENERATION AND INTELLIGENT LIGHT CONTROL FOR SMART WINDOWS	16/435,825	10941613	Issued	United States of America
CLOUD-BASED SYSTEM FOR CONTROLLING ELECTROCHROMIC DEVICES	16/786,703	10921675	Issued	United States of America
DYNAMIC USER CONTROL SYSTEM	16/748,612	10921694	Issued	United States of America
METHOD FOR CUTTING STRENGTHENED GLASS	18188091.5	3473372	Issued	European Patent Office
FLEXIBLE AND MULTILAYER ELECTROCHROMIC DEVICES AND METHODS OF MAKING THE SAME	15/970,676	10901284	Issued	United States of America
TUNGSTEN OXIDE NANOSTRUCTURE THIN FILMS FOR ELECTROCHROMIC DEVICES	16862989.7	6.02016E+11	Issued	Germany
TUNGSTEN OXIDE NANOSTRUCTURE THIN FILMS FOR ELECTROCHROMIC DEVICES	16862989.7	6.02016E+11	Issued	France
TUNGSTEN OXIDE NANOSTRUCTURE THIN FILMS FOR ELECTROCHROMIC DEVICES	16862989.7	6.02016E+11	Issued	United Kingdom
TUNGSTEN OXIDE NANOSTRUCTURE THIN	16862989.7	6.02016E+11	Issued	European Patent Office

Title	Application #	Patent #	Status	Country
FILMS FOR ELECTROCHROMIC DEVICES				
THIN FILM LITHIUM TUNGSTEN OXIDES FOR ELECTROCHROMIC APPLICATIONS AND METHODS OF MAKING THE SAME	16/820,374	10877347	Issued	United States of America
DRIVER DEVICE	29/681,883	D906303	Issued	United States of America
GATEWAY DEVICE	29/681,885	D906304	Issued	United States of America
ELECTROCHROMIC MULTI-LAYER DEVICES WITH COMPOSITE ELECTRICALLY CONDUCTIVE LAYERS	16/011,412	10871695	Issued	United States of America
ELECTROCHROMIC LITHIUM NICKEL GROUP 5 MIXED METAL OXIDES	15/675,192	10845666	Issued	United States of America
ELECTROCHROMIC MULTI-LAYER DEVICES WITH CURRENT MODULATING STRUCTURE	16/532,073	10838280	Issued	United States of America
DRIVER FOR ELECTROCHROMIC GLASS UNIT	15/406,576	10831079	Issued	United States of America
ELECTROCHROMIC DEVICE ASSEMBLIES	16835712.7	3332288	Issued	Belgium
ELECTROCHROMIC DEVICE ASSEMBLIES	16835712.7	3332288	Issued	Germany
ELECTROCHROMIC DEVICE ASSEMBLIES	16835712.7	3332288	Issued	France
ELECTROCHROMIC DEVICE ASSEMBLIES	16835712.7	3332288	Issued	United Kingdom
ELECTROCHROMIC DEVICE ASSEMBLIES	16835712.7	3332288	Issued	European Patent Office
TILED ELECTROCHROMIC DEVICES ON CARRIER GLASS AND METHODS OF MAKING THE SAME	16/024,460	10768501	Issued	United States of America
TWO RAIL DESIGN AND SAFETY CIRCUIT FOR ELECTROCHROMIC WINDOWS	16/504,102	10768503	Issued	United States of America
PROCESS FOR PREPARING MULTI-LAYER	16/113,317	10761394	Issued	United States of America

Title	Application #	Patent #	Status	Country
ELECTROCHROMIC STACKS				
ELECTROCHROMIC LITHIUM NICKEL GROUP 4 MIXED METAL OXIDES	16/153,284	10739657	Issued	United States of America
ELECTROCHROMIC MULTI-LAYER DEVICES WITH CHARGE SEQUESTRATION AND RELATED METHODS	201680011181.5	ZL201680011181.5	Issued	China
Electrochromic multi-layer devices with cross-linked ion conducting polymer	15/662,740	10723835	Issued	United States of America
CHARGE SEQUESTRATION METHODS FOR ELECTROCHROMIC DEVICES	15/841,097	10705403	Issued	United States of America
ELECTROCHROMIC MULTI-LAYER DEVICES WITH CHARGE SEQUESTRATION AND RELATED METHODS	16/017,901	10698286	Issued	United States of America
DRIVER FOR ELECTROCHROMIC GLASS UNIT	2017-555452	6720210	Issued	Japan
DISTRIBUTED DEVICE NETWORK-BASED CONTROL SYSTEM WITH DECOUPLED INTELLIGENCE FOR SMART WINDOWS	15/265,760	10678109	Issued	United States of America
WET-COATING OF THIN FILM LITHIUM NICKEL OXIDES FOR ELECTROCHROMIC APPLICATIONS	14/806,543	10670936	Issued	United States of America
INDICATOR FOR WINDOWS	15/230,056	10663832	Issued	United States of America
ELECTROCHROMIC MULTI-LAYER DEVICES WITH COMPOSITE CURRENT MODULATING STRUCTURE	16/133,519	10627692	Issued	United States of America
INSTALL MODE AND CLOUD LEARNING FOR SMART WINDOWS	201680011043.7	ZL201680011043.7	Issued	China
SMART DRIVER	2019-527841	6679808	Issued	Japan
SMART DRIVER	10-2019-7018057	102094185	Issued	Republic of Korea
DYNAMIC TENANCY	15/820,884	10591798	Issued	United States of America

Title	Application #	Patent #	Status	Country
THIN FILM LITHIUM TUNGSTEN OXIDES FOR ELECTROCHROMIC APPLICATIONS AND METHODS OF MAKING THE SAME	15/845,973	10591796	Issued	United States of America
SECURITY FOCUSED SYSTEM FOR SMART WINDOWS	16/404,394	10590698	Issued	United States of America
EXPERT SYSTEM FOR PREDICTION OF CHANGES TO LOCAL ENVIRONMENT	15/225,047	10579024	Issued	United States of America
SMART DRIVER	16/278,553	10579842	Issued	United States of America
TUNGSTEN OXIDE NANOSTRUCTURE THIN FILMS FOR ELECTROCHROMIC DEVICES	15/818,566	10558103	Issued	United States of America
DYNAMIC USER CONTROL SYSTEM	15/691,297	10539860	Issued	United States of America
MANUFACTURING METHODS FOR A TRANSPARENT CONDUCTIVE OXIDE ON A FLEXIBLE SUBSTRATE	15/601,972	10509292	Issued	United States of America
A decentralized device network-based control system for smart windows	2017-555451	6625663	Issued	Japan
ELECTROCHROMIC DEVICE ASSEMBLIES	15/230,157	10473997	Issued	United States of America
ELECTROCHROMIC MULTI-LAYER DEVICES WITH SPATIALLY COORDINATED SWITCHING	15/818,564	10437128	Issued	United States of America
INSTALL MODE AND CLOUD LEARNING FOR SMART WINDOWS	14/821,366	10425376	Issued	United States of America
ELECTROCHROMIC DEVICES WITH PATTERNED ELECTRICALLY CONDUCTIVE LAYERS	15/588,522	10386688	Issued	United States of America
ELECTROCHROMIC DEVICE DRIVER WITH A FAILSAFE MODULE AND METHOD OF USE	15/820,891	10372007	Issued	United States of America

Title	Application #	Patent #	Status	Country
ELECTROCHROMIC MULTI-LAYER DEVICES WITH CURRENT MODULATING STRUCTURE	15/967,002	10372006	Issued	United States of America
ELECTROCHROMIC LITHIUM NICKEL GROUP 4 MIXED METAL OXIDES	14740864.5	2946248	Issued	Belgium
ELECTROCHROMIC LITHIUM NICKEL GROUP 4 MIXED METAL OXIDES	14740864.5	2946248	Issued	Germany
ELECTROCHROMIC LITHIUM NICKEL GROUP 4 MIXED METAL OXIDES	14740864.5	2946248	Issued	France
ELECTROCHROMIC LITHIUM NICKEL GROUP 4 MIXED METAL OXIDES	14740864.5	2946248	Issued	United Kingdom
ELECTROCHROMIC LITHIUM NICKEL GROUP 4 MIXED METAL OXIDES	14740864.5	2946248	Issued	Netherlands
ELECTROCHROMIC LITHIUM NICKEL GROUP 4 MIXED METAL OXIDES	14740864.5	2946248	Issued	European Patent Office
Tungsten oxide nanostructured thin film for electrochromic devices	2018-522942	6542474	Issued	Japan
BUILDING MODEL GENERATION AND INTELLIGENT LIGHT CONTROL FOR SMART WINDOWS	14/994,092	10316581	Issued	United States of America
SECURITY FOCUSED SYSTEM FOR SMART WINDOWS	15/620,686	10280682	Issued	United States of America
MULTI-LAYER ELECTROCHROMIC DEVICE WITH LITHIUM NICKEL OXIDE BASED ANODE	14740288.7	2946246	Issued	Austria
MULTI-LAYER ELECTROCHROMIC DEVICE WITH LITHIUM NICKEL OXIDE BASED ANODE	14740288.7	2946246	Issued	Belgium
MULTI-LAYER ELECTROCHROMIC DEVICE WITH LITHIUM NICKEL OXIDE BASED ANODE	14740288.7	2946246	Issued	Switzerland

Title	Application #	Patent #	Status	Country
MULTI-LAYER ELECTROCHROMIC DEVICE WITH LITHIUM NICKEL OXIDE BASED ANODE	14740288.7	2946246	Issued	Germany
MULTI-LAYER ELECTROCHROMIC DEVICE WITH LITHIUM NICKEL OXIDE BASED ANODE	14740288.7	2946246	Issued	Denmark
MULTI-LAYER ELECTROCHROMIC DEVICE WITH LITHIUM NICKEL OXIDE BASED ANODE	14740288.7	2946246	Issued	Spain
MULTI-LAYER ELECTROCHROMIC DEVICE WITH LITHIUM NICKEL OXIDE BASED ANODE	14740288.7	2946246	Issued	France
MULTI-LAYER ELECTROCHROMIC DEVICE WITH LITHIUM NICKEL OXIDE BASED ANODE	14740288.7	2946246	Issued	United Kingdom
MULTI-LAYER ELECTROCHROMIC DEVICE WITH LITHIUM NICKEL OXIDE BASED ANODE	14740288.7	2946246	Issued	Ireland
MULTI-LAYER ELECTROCHROMIC DEVICE WITH LITHIUM NICKEL OXIDE BASED ANODE	14740288.7	2946246	Issued	Italy
MULTI-LAYER ELECTROCHROMIC DEVICE WITH LITHIUM NICKEL OXIDE BASED ANODE	14740288.7	2946246	Issued	Liechtenstein
MULTI-LAYER ELECTROCHROMIC DEVICE WITH LITHIUM NICKEL OXIDE BASED ANODE	14740288.7	2946246	Issued	Luxembourg
MULTI-LAYER ELECTROCHROMIC DEVICE WITH LITHIUM NICKEL OXIDE BASED	14740288.7	2946246	Issued	Netherlands

Title	Application #	Patent #	Status	Country
ANODE				
MULTI-LAYER ELECTROCHROMIC DEVICE WITH LITHIUM NICKEL OXIDE BASED ANODE	14740288.7	2946246	Issued	Portugal
MULTI-LAYER ELECTROCHROMIC DEVICE WITH LITHIUM NICKEL OXIDE BASED ANODE	14740288.7	2946246	Issued	Sweden
MULTI-LAYER ELECTROCHROMIC DEVICE WITH LITHIUM NICKEL OXIDE BASED ANODE	14740288.7	2946246	Issued	European Patent Office
LASER CUTTING STRENGTHENED GLASS	15/267,096	10241376	Issued	United States of America
SMART DRIVER	15/820,881	10210368	Issued	United States of America
MULTI-ZONE HEATING OVEN WITH A PLURALITY OF HEATING ZONES HAVING INDIVIDUALLY CONTROLLED TEMPERATURE HUMIDITY	15/078,880	10184722	Issued	United States of America
ELECTROCHROMIC MULTI-LAYER DEVICES WITH SPATIALLY COORDINATED SWITCHING	12744192.1	2673674	Issued	Belgium
ELECTROCHROMIC MULTI-LAYER DEVICES WITH SPATIALLY COORDINATED SWITCHING	12744192.1	2673674	Issued	Germany
ELECTROCHROMIC MULTI-LAYER DEVICES WITH SPATIALLY COORDINATED SWITCHING	12744192.1	2673674	Issued	France
ELECTROCHROMIC MULTI-LAYER DEVICES WITH SPATIALLY COORDINATED SWITCHING	12744192.1	2673674	Issued	United Kingdom
ELECTROCHROMIC MULTI-LAYER DEVICES WITH SPATIALLY COORDINATED SWITCHING	12744192.1	2673674	Issued	European Patent Office

Title	Application #	Patent #	Status	Country
ELECTROCHROMIC LITHIUM NICKEL GROUP 4 MIXED METAL OXIDES	14/961,709	10095079	Issued	United States of America
ELECTROCHROMIC MULTI-LAYER DEVICES WITH COMPOSITE CURRENT MODULATING STRUCTURE	15/460,018	10078252	Issued	United States of America
LASER CUTTING STRENGTHENED GLASS	14765507	2969375	Issued	Belgium
LASER CUTTING STRENGTHENED GLASS	14765507	6.02014E+11	Issued	Germany
LASER CUTTING STRENGTHENED GLASS	14765507	2969375	Issued	France
LASER CUTTING STRENGTHENED GLASS	14765507	2969375	Issued	European Patent Office
PROCESS FOR PREPARING MULTI-LAYER ELECTROCHROMIC STACKS	14/806,545	10061177	Issued	United States of America
ELECTROCHROMIC LITHIUM NICKEL GROUP 5 MIXED METAL OXIDES	201480008081.8	105324706	Issued	China
ELECTROCHROMIC MULTI-LAYER DEVICES WITH CHARGE SEQUESTRATION AND RELATED METHODS	15/424,591	10007163	Issued	United States of America
ELECTROCHROMIC MULTI-LAYER DEVICES WITH COMPOSITE ELECTRICALLY CONDUCTIVE LAYERS	15/462,694	10001689	Issued	United States of America
ELECTROCHROMIC LITHIUM NICKEL GROUP 4 MIXED METAL OXIDES	201480008071.4	ZL201480008071.4	Issued	China
ELECTROCHROMIC MULTI-LAYER DEVICES WITH CURRENT MODULATING STRUCTURE	15/362,677	9958751	Issued	United States of America
TUNGSTEN OXIDE NANOSTRUCTURE THIN FILMS FOR ELECTROCHROMIC DEVICES	15/009,465	9823535	Issued	United States of America
ELECTROCHROMIC MULTI-LAYER DEVICES WITH SPATIALLY COORDINATED SWITCHING	14/685,759	9823536	Issued	United States of America

Title	Application #	Patent #	Status	Country
ELECTROCHROMIC LITHIUM NICKEL GROUP 5 MIXED METAL OXIDES	14/992,628	9753348	Issued	United States of America
ELECTROCHROMIC MULTI-LAYER DEVICES WITH SPATIALLY COORDINATED SWITCHING	201280008082.3	103370649	Issued	China
Electrochromic multi-layer devices with cross-linked ion conducting polymer	14/994,090	9720299	Issued	United States of America
SECURITY FOCUSED SYSTEM FOR SMART WINDOWS	14/994,093	9677327	Issued	United States of America
MANUFACTURING METHODS FOR A TRANSPARENT CONDUCTIVE OXIDE ON A FLEXIBLE SUBSTRATE	14/994,094	9658508	Issued	United States of America
ELECTROCHROMIC LITHIUM NICKEL GROUP 4 MIXED METAL OXIDES	2015-553896	6125047	Issued	Japan
ELECTROCHROMIC MULTI-LAYER DEVICES WITH COMPOSITE CURRENT MODULATING STRUCTURE	14/750,480	9606410	Issued	United States of America
ELECTROCHROMIC MULTI-LAYER DEVICE WITH COMPOSITE ELECTRICALLY CONDUCTIVE LAYERS	14/750,576	9606411	Issued	United States of America
ELECTROCHROMIC MULTI-LAYER DEVICES WITH CHARGE SEQUESTRATION AND RELATED METHODS	14/994,087	9581877	Issued	United States of America
DRIVER FOR ELECTROCHROMIC GLASS UNIT	14/994,091	9563097	Issued	United States of America
ELECTROCHROMIC MULTI-LAYER DEVICES WITH CURRENT MODULATING STRUCTURE	13/961,718	9507233	Issued	United States of America
Laser cutting strengthened glass	14/212,841	9481598	Issued	United States of America
DISTRIBUTED DEVICE NETWORK-BASED CONTROL SYSTEM WITH DECOUPLED INTELLIGENCE FOR SMART	14/821,371	9470947	Issued	United States of America

Title	Application #	Patent #	Status	Country
WINDOWS				
EXPERT SYSTEM FOR PREDICTION OF CHANGES TO LOCAL ENVIRONMENT	13/798,050	9406028	Issued	United States of America
ELECTROCHROMIC LITHIUM NICKEL GROUP 6 MIXED METAL OXIDES	14/160,309	9395593	Issued	United States of America
ELECTROCHROMIC LITHIUM NICKEL GROUP 4 MIXED METAL OXIDES	14/160,365	9377663	Issued	United States of America
ELECTROCHROMIC LITHIUM NICKEL GROUP 5 MIXED METAL OXIDES	2015-553893	5946977	Issued	Japan
ELECTROCHROMIC LITHIUM NICKEL GROUP 6 MIXED METAL OXIDES	14/160,401	9360729	Issued	United States of America
ELECTROCHROMIC LITHIUM NICKEL GROUP 5 MIXED METAL OXIDES	14/160,394	9341910	Issued	United States of America
ELECTROCHROMIC MULTI-LAYER DEVICES WITH SPATIALLY COORDINATED SWITCHING	10-2013-7021005	1613341	Issued	Republic of Korea
Electrochromic multi-layer devices with spatially coordinated switching	101125903	I528094	Issued	Taiwan R.O.C.
Electrochromic multilayer device with composite electrically conductive layer	2015-526673	5887024	Issued	Japan
ELECTROCHROMIC LITHIUM NICKEL GROUP 5 MIXED METAL OXIDES	14/160,304	9256111	Issued	United States of America
ELECTROCHROMIC LITHIUM NICKEL GROUP 4 MIXED METAL OXIDES	14/160,285	9207514	Issued	United States of America
ELECTROCHROMIC MULTI-LAYER DEVICES WITH COMPOSITE CURRENT MODULATING STRUCTURE	13/961,669	9091868	Issued	United States of America
Electrochromic multi-layer devices with composite electrically conductive layers	13/961,508	9091895	Issued	United States of America
Electrochromic multi-layer devices with spatially coordinated switching	14/222,860	9036242	Issued	United States of America

Title	Application #	Patent #	Status	Country
Electrochromic multi-layer devices with spatially coordinated switching	13/370,268	8717658	Issued	United States of America
SWITCHABLE GLASS WINDOW WITH AUTOMATIC CONTROL OF THE TRANSMISSION	18187305	Not yet granted	Pending	European Patent Office
PROCESS FOR PREPARING A MULTI-LAYER ELECTROCHROMIC STRUCTURE	2016-502868	Not yet granted	Published	Japan
DISTRIBUTED ENERGY MANAGEMENT SYSTEM	16/775,070	11106104	Issued	United States of America
OVERCHARGE-AWARE DRIVER FOR ELECTROCHROMIC DEVICES	16/775,083	11467463	Issued	United States of America
REMOTE MANAGEMENT OF ON-SITE SMART WINDOW ACTIVITIES AND SCHEDULER OF SMART WINDOWS	16/814,162	11169681	Issued	United States of America
AUTOMATED CONTROL OF AN ELECTROCHROMIC DEVICE	16/821,293	11686988	Issued	United States of America
ELECTROCHROMIC PANEL TRANSMISSION LEVEL SYNCHRONIZATION	15/820,867	11194213	Issued	United States of America
ELECTROCHROMIC DEVICES HAVING OPTIMIZED VISUAL CHARACTERISTICS	15/492,739	11086184	Issued	United States of America
BOOST CIRCUIT FOR ELECTROCHROMIC DEVICES	15/685,935	11269230	Issued	United States of America
ELECTROCHROMIC DEVICES WITH PATTERNED ELECTRICALLY CONDUCTIVE LAYERS	16/410,551	11187955	Issued	United States of America
METHODS OF CUTTING AND EDGE TREATMENTS FOR ELECTROCHROMIC MOTHERGLASS LAMINATES	14/857,767	Not yet granted	Pending	United States of America
SHEAR STRESS REDUCTION IN ELECTROCHROMIC	16/834,856	Not yet granted	Published	United States of America

Title	Application #	Patent #	Status	Country
DEVICE ASSEMBLIES				
ELECTROCHROMIC DEVICES WITH NANOSTRUCTURE THIN FILM CATHODES	15/970,652	11340510	Issued	United States of America
QUALITY CONTROL OF AN ELECTROCHROMIC DEVICE	17/024,524	Not yet granted	Published	United States of America
Integrated Driver and Tint Selector	63/126,241	Not yet granted	Pending	United States of America
EXPERT SYSTEM FOR PREDICTION OF CHANGES TO LOCAL ENVIRONMENT	16/804,370	Not yet granted	Allowed	United States of America
DYNAMIC TENANCY	16/820,385	11537022	Issued	United States of America
INSTALL MODE AND CLOUD LEARNING FOR SMART WINDOWS	16/567,614	Not yet granted	Pending	United States of America
ELECTROCHROMIC DEVICE ASSEMBLIES	16/680,316	Not yet granted	Published	United States of America
MULTI-ZONE HEATING OVEN WITH A PLURALITY OF HEATING ZONES HAVING INDIVIDUALLY CONTROLLED TEMPERATURE HUMIDITY	16/254,507	Not yet granted	Pending	United States of America
ELECTROCHROMIC DEVICES WITH PATTERNED ELECTRICALLY CONDUCTIVE LAYERS	16/544,764	Not yet granted	Allowed	United States of America
MANUFACTURING METHODS FOR A TRANSPARENT CONDUCTIVE OXIDE ON A FLEXIBLE SUBSTRATE	16/716,314	Not yet granted	Pending	United States of America
TUNGSTEN OXIDE NANOSTRUCTURE THIN FILMS FOR ELECTROCHROMIC DEVICES	16/786,900	Not yet granted	Published	United States of America
ELECTROCHROMIC MULTI-LAYER DEVICES WITH SPATIALLY COORDINATED SWITCHING	16/594,948	Not yet granted	Allowed	United States of America
ELECTROCHROMIC LITHIUM NICKEL GROUP 4	16/989,735	Not yet granted	Published	United States of America

Title	Application #	Patent #	Status	Country
MIXED METAL OXIDES				
TILED ELECTROCHROMIC DEVICES ON CARRIER GLASS AND METHODS OF MAKING THE SAME	17/014,880	Not yet granted	Pending	United States of America
TWO RAIL DESIGN AND SAFETY CIRCUIT FOR ELECTROCHROMIC WINDOWS	17/014,871	Not yet granted	Pending	United States of America
PROCESS FOR PREPARING MULTI-LAYER ELECTROCHROMIC STACKS	17/008,194	11300846	Issued	United States of America
ELECTROCHROMIC MULTI-LAYER DEVICES WITH CHARGE SEQUESTRATION AND RELATED METHODS	16/915,913	Not yet granted	Pending	United States of America
ELECTROCHROMIC MULTI-LAYER DEVICES WITH CROSS-LINKED ION CONDUCTING POLYMER	16/940,169	Not yet granted	Published	United States of America
DISTRIBUTED DEVICE NETWORK-BASED CONTROL SYSTEM WITH DECOUPLED INTELLIGENCE FOR SMART WINDOWS	16/896,090	Not yet granted	Published	United States of America
CHARGE SEQUESTRATION METHODS FOR ELECTROCHROMIC DEVICES	16/921,779	Not yet granted	Pending	United States of America
INDICATOR FOR WINDOWS	16/883,834	Not yet granted	Pending	United States of America
ELECTROCHROMIC MULTI-LAYER DEVICES WITH COMPOSITE CURRENT MODULATING STRUCTURE	16/853,106	11520205	Issued	United States of America
ELECTROCHROMIC MULTI-LAYER DEVICES WITH CURRENT MODULATING STRUCTURE	17/098,842	Not yet granted	Published	United States of America
ELECTROCHROMIC LITHIUM NICKEL GROUP 5 MIXED METAL OXIDES	17/101,848	Not yet granted	Published	United States of America
ELECTROCHROMIC MULTI-LAYER DEVICES WITH COMPOSITE	17/129,333	Not yet granted	Published	United States of America

Title	Application #	Patent #	Status	Country
ELECTRICALLY CONDUCTIVE LAYERS				
THIN FILM LITHIUM TUNGSTEN OXIDES FOR ELECTROCHROMIC APPLICATIONS AND METHODS OF MAKING THE SAME	17/135,243	Not yet granted	Pending	United States of America
DRIVER FOR ELECTROCHROMIC GLASS UNIT	17/093,000	Not yet granted	Published	United States of America
FLEXIBLE AND MULTILAYER ELECTROCHROMIC DEVICES AND METHODS OF MAKING THE SAME	17/157,076	Not yet granted	Pending	United States of America
CLOUD-BASED SYSTEM FOR CONTROLLING ELECTROCHROMIC DEVICES	17/175,480	11409180	Issued	United States of America
DYNAMIC USER CONTROL SYSTEM	17/175,846	Not yet granted	Pending	United States of America
BUILDING MODEL GENERATION AND INTELLIGENT LIGHT CONTROL FOR SMART WINDOWS	17/195,406	Not yet granted	Published	United States of America
SMART DRIVER	17/306,831	Not yet granted	Pending	United States of America
CLOUD-BASED COMPONENT LINKING IN A SMART WINDOW SYSTEM	17/365,491	Not yet granted	Pending	United States of America
ELECTROCHROMIC MULTI-LAYER DEVICES WITH SPATIALLY COORDINATED SWITCHING	18200532.2	Not yet granted	Published	European Patent Office
WET-COATING OF THIN FILM LITHIUM NICKEL OXIDES FOR ELECTROCHROMIC APPLICATIONS	16/889,505	11384435	Issued	United States of America
FLEXIBLE AND MULTILAYER ELECTROCHROMIC DEVICES AND METHODS OF MAKING THE SAME	201880044709.8	Not yet granted	Published	China
Intelligent driver	201780072493.1	Not yet granted	Published	China

Title	Application #	Patent #	Status	Country
DISTRIBUTED DEVICE NETWORK-BASED CONTROL SYSTEM WITH DECOUPLED INTELLIGENCE FOR SMART WINDOWS	201680011014	Not yet granted	Published	China
Electrochromic device component	201680055290.7	ZL201680055290.7	Issued	China
Booster circuit for electrochromic devices	201780065660.X	Not yet granted	Published	China
SMART DRIVER	17873804.3	Not yet granted	Published	European Patent Office
FLEXIBLE AND MULTILAYER ELECTROCHROMIC DEVICES AND METHODS OF MAKING THE SAME	18794383.2	Not yet granted	Published	European Patent Office
INSTALL MODE AND CLOUD LEARNING FOR SMART WINDOWS	16737755.5	Not yet granted	Published	European Patent Office
DISTRIBUTED DEVICE NETWORK-BASED CONTROL SYSTEM WITH DECOUPLED INTELLIGENCE FOR SMART WINDOWS	16737754.8	Not yet granted	Published	European Patent Office
TILED ELECTROCHROMIC DEVICES ON CARRIER GLASS AND METHODS OF MAKING THE SAME	18824088.1	Not yet granted	Published	European Patent Office
BOOST CIRCUIT FOR ELECTROCHROMIC DEVICES	17844443.6	Not yet granted	Published	European Patent Office
ELECTROCHROMIC MULTI-LAYER DEVICES WITH CHARGE SEQUESTRATION AND RELATED METHODS	16737756.3	3245557	Issued	European Patent Office
DRIVER FOR ELECTROCHROMIC GLASS UNIT	16737757.1	Not yet granted	Allowed	European Patent Office
ELECTROCHROMIC MULTI-LAYER DEVICES WITH COMPOSITE ELECTRICALLY CONDUCTIVE LAYERS	13827579.7	602013081915.7	Issued	European Patent Office
Electrochromic device assembly	2018-506413	Not yet granted	Published	Japan
BOOST CIRCUIT FOR ELECTROCHROMIC	2019-511455	Not yet granted	Published	Japan

Title	Application #	Patent #	Status	Country
DEVICES				
TILED ELECTROCHROMIC DEVICES ON CARRIER GLASS AND METHODS OF MAKING THE SAME	2019-572478	Not yet granted	Published	Japan
Boost circuit for electrochromic devices	10-2019-7008459	Not yet granted	Published	Republic of Korea
SWITCHABLE GLASS WINDOW WITH AUTOMATIC CONTROL OF THE TRANSMISSION	17/265,625	Not yet granted	Published	United States of America
ADAPTIVE LEARNING BASED ON USER INPUT FOR ELECTROCHROMIC DEVICES	17/084,447	Not yet granted	Pending	United States of America
PREDICTION AND CORRECTION OF HARDWARE FAILURES OF ELECTROCHROMIC DEVICES	17/089,612	Not yet granted	Pending	United States of America
INTEGRATED DRIVER AND TINT SELECTOR	63/146,428	Provisional	Pending	United States of America
ELECTROCHROMIC INSULATED GLAZING UNIT WITH INTEGRATED CONNECTOR RECEPTACLE	63/142,929	Provisional	Pending	United States of America
SKY SENSOR	63/148,512	Provisional	Pending	United States of America
METHOD OF STORING AND COMMUNICATING INFORMATION WITHIN AN ELECTROCHROMIC GLASS PANEL UNIT TO ASSIST WITH IDENTIFICATION	63/160,096	Provisional	Pending	United States of America
SELF-CONTAINED CONTROL UNIT FOR SMART TINT WINDOWS	63/162,721	Provisional	Pending	United States of America
SKY SENSOR	63/164,037	Provisional	Pending	United States of America
METHOD OF TESTING SWITCHABLE ELECTROCHROMIC WINDOWS USING PATTERN MAPPING	63/163,490	Provisional	Pending	United States of America
AUTOMATED DEMAND RESPONSE SMART TINT WINDOW SYSTEM	63/167,363	Provisional	Pending	United States of America

Title	Application #	Patent #	Status	Country
A METHOD OF CONFIGURING DYNAMIC GLARE CONTROL IN SMART TINT WINDOWS	63/167,389	Provisional	Pending	United States of America
MONOLITHIC INTEGRATION - SYSTEM ON GLASS	63/182,589	Provisional	Pending	United States of America

SCHEDULE B

(Trademarks)

TITLE	APPLICATION #	STATUS	COUNTRY	REGISTRATION NUMBER	REGISTRATION DATE
HALIO	912582049	Registered	Brazil	912582049	Feb 19, 2019
HALIO	912582103	Registered	Brazil	912582103	Feb 19, 2019
HALIO	912584564	Registered	Brazil		Feb 5, 2019
HALIO	912584629	Registered	Brazil	912584629	Feb 5, 2019
HALIO	912584807	Registered	Brazil	912584807	Feb 5, 2019
HALIO	912584882	Registered	Brazil	912584882	Feb 5, 2019
HALIO	912585064	Registered	Brazil	912585064	Feb 5, 2019
HALIO	912585110	Registered	Brazil	912585110	Feb 5, 2019
HALIO	1832241	Registered	Canada	TMA1076469	Apr 7, 2020
HALIO	22925411	Registered	China	22925411	Feb 28, 2018
HALIO	22925412	Registered	China	22925412	Mar 21, 2018
HALIO	22925413	Registered	China	22925413	Mar 21, 2018
HALIO	22925414	Registered	China	22925414	Mar 21, 2018
HALIO	22925415	Registered	China	22925415	Mar 21, 2018
HALIO	22925416	Registered	China	22925416	Nov 28, 2018
HALIO	22925417	Registered	China	22925417	Mar 21, 2018
HALIO	22925418	Registered	China	22925418	Mar 21, 2018
HALIO (in Chinese Characters)	24171675	Registered	China	24171675	May 14, 2018
HALIO (in Chinese Characters)	24171676	Registered	China	24171676	May 14, 2018
HALIO (in Chinese Characters)	24171677	Registered	China	24171677	May 14, 2018
HALIO (in Chinese Characters)	24171678	Registered	China	24171678	May 14, 2018
HALIO (in Chinese Characters)	24171679	Registered	China	24171679	May 14, 2018
HALIO (in Chinese Characters)	24171680	Registered	China	24171680	May 14, 2018
HALIO (in Chinese Characters)	24171681	Registered	China	24171681	May 14, 2018
HALIO (in Chinese Characters)	24171682	Registered	China	24171682	May 14, 2018
HALIO (Stylized)	25228337	Registered	China	25228337	Jul 7, 2018
HALIO (Stylized)	25228338	Registered	China	25228338	Mar 7, 2019

HALIO (Stylized)	25228339	Registered	China	25228339	Jul 7, 2018
HALIO (Stylized)	25228340	Registered	China	25228340	Jul 7, 2018
HALIO (Stylized)	25228341	Registered	China	25228341	Jul 7, 2018
HALIO (Stylized)	25228342	Registered	China	25228342	Jul 7, 2018
HALIO (Stylized)	25228343	Registered	China	25228343	Mar 7, 2019
HALIO (Stylized)	25228344	Registered	China	25228344	Jul 7, 2018
HALIO (Stylized)	25228345	Registered	China	25228345	Jul 7, 2018
HALIO	16357584	Registered	European Union	16357584	Sep 14, 2017
HALIOLIFE	16941007	Registered	European Union	16941007	Dec 29, 2017
HALIOBLK	16941064	Registered	European Union	16941064	Dec 29, 2017
HALIO (Stylized)	16958969	Registered	European Union	16958969	Jan 22, 2018
HALIO	UK00003224239	Registered	United Kingdom	UK00003224239	Sep 29, 2017
HALIO	3525724	Registered	India	3525724	Dec 28, 2017
HALIO	2017-35462	Registered	Japan	6224273	Feb 10, 2020
HALIO in Katakana	2017-35463	Registered	Japan	6224274	Feb 10, 2020
HALIO (Stylized)	2017-92858	Registered	Japan	6224275	Feb 10, 2020
HALIO	40-2017-0047717	Registered	Republic of Korea	401595662	Apr 13, 2020
HALIO (Stylized)	40-2017-0091532	Registered	Republic of Korea	401527797	Oct 2, 2019
HALIO (Stylized)	40-2019-0067264	Registered	Republic of Korea	401602012	May 4, 2020
HALIO	40-2019-0110333	Registered	Republic of Korea	401603699	May 8, 2020
HALIO	1876867	Registered	Mexico	1858547	Mar 12, 2018
HALIO	1876868	Registered	Mexico	1782233	Jul 31, 2017
HALIO	1876869	Registered	Mexico	1782234	Jul 31, 2017
HALIO	1876870	Registered	Mexico	1785211	Aug 9, 2017
HALIO	1876871	Registered	Mexico	1876871	Apr 18, 2018
HALIO	1876872	Registered	Mexico	1783216	Aug 2, 2017
HALIO	1876873	Registered	Mexico	1785212	Aug 9, 2017
HALIO	1876876	Registered	Mexico	1783473	Aug 3, 2017

HALIO	40201706406Y	Registered	Singapore	40201706406Y	Apr 1, 2020
HALIO	106021363	Registered	Taiwan R.O.C.	1937351	Sep 1, 2018
HALIO (Stylized)	106044119	Registered	Taiwan R.O.C.	1937368	Sep 1, 2018
HALIO	87/202,922	Registered	United States of America	6239906	Jan 5, 2021
HALIOLIFE	87/510,336	Pending	United States of America		
HALIO (Stylized)	87/518,158	Allowed	United States of America		
HALIO (Stylized)	87/979,235	Registered	United States of America	5783335	Jun 18, 2019
HALIO	87/979,405	Registered	United States of America	5663181	Jan 22, 2019
HALIO SPECTRUM	88/594,890	Pending	United States of America		
HALIO ASPIRE	88/594,897	Pending	United States of America		

SCHEDULE C

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None.