PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT7159655

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	NUNC PRO TUNC ASSIGNMENT
EFFECTIVE DATE:	06/17/2021

CONVEYING PARTY DATA

Name	Execution Date
JOHNSON CONTROLS, INC.	08/06/2021

RECEIVING PARTY DATA

Name:	JOHNSON CONTROLS TYCO IP HOLDINGS LLP
Street Address:	5757 N. GREEN BAY AVENUE
City:	MILWAUKEE
State/Country:	WISCONSIN
Postal Code:	53209

PROPERTY NUMBERS Total: 5

Property Type	Number
Application Number:	11546964
Application Number:	14994763
Application Number:	16993812
Application Number:	17180315
Application Number:	17180354

CORRESPONDENCE DATA

Fax Number: (703)739-2815

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: recordals@cpaglobal.com **Correspondent Name: CPA GLOBAL LIMITED** Address Line 1: LIBERATION HOUSE

Address Line 2: **CASTLE ST**

Address Line 4: ST HELIER, JERSEY JE1 1BL

NAME OF SUBMITTER:	HELEN BIRRELL
SIGNATURE:	/IPR/TB/Foley&LardnerJCl2021-102/AG5PT/
DATE SIGNED:	02/04/2022

Total Attachments: 46

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INTELLECTUAL PROPERTY ASSIGNMENT AGREEMENT

This INTELLECTUAL PROPERTY ASSIGNMENT AGREEMENT ("IP Assignment") is executed on August 6, 2021 and effective as of June 17, 2021 at 5:04 P.M. Central Time (the "Effective Date"), by and among Johnson Controls, Inc., a Wisconsin corporation, located at 5757 N. Green Bay Ave., Milwaukee, Wisconsin 53209 ("JCI") and Johnson Controls Tyco IP Holdings LLP, a Wisconsin Limited Liability Partnership, located at 5757 N. Green Bay Avenue, Milwaukee, Wisconsin 53209 ("JCTIPH").

WHEREAS, JCTIPH is the acquirer of certain assets of JCI (the "**Transferred Assets**") pursuant to the Amended and Restated Contribution Agreement between JCI as a contributing party and JCTIPH as the receiving party, effective as of June 17, 2021 at 5:03 P.M. Central Time (the "**JCTIPH Contribution Agreement**");

WHEREAS, under the terms of the JCTIPH Contribution Agreement, JCI has conveyed, transferred, and assigned certain intellectual property among the Transferred Assets for acquisition by JCTIPH, and all parties have agreed to execute and deliver this IP Assignment, for recording with the United States Patent and Trademark Office, the United States Copyright Office, and corresponding entities or agencies in any applicable jurisdictions;

NOW THEREFORE, the parties agree as follows:

1. <u>Assignment from JCI to JCTIPH.</u>

- (a) For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, JCI hereby irrevocably conveys, transfers, and assigns to JCTIPH, and JCTIPH hereby accepts, all of JCI's right, title, and interest in and to the interest in and to the following (the "Assigned IP"):
 - (i) all patents and patent applications (including design patents, design registrations, and other industrial design rights) set forth on Schedule 1 hereto, including any and all divisions, continuations, continuation-in-part, extensions, substitutions, renewals, registrations, revalidations, reissues, reexaminations, and the like, or foreign counterparts of or to any of the aforesaid patents and patent applications, including without limitation, all issued patents that have been or may be granted thereon and any other patents and patent applications claiming priority to or the benefit of the foregoing (the "Patents");
 - (ii) all copyright registrations and copyright applications set forth on Schedule 2 hereto and all issuances, extensions, and renewals thereof (the "Copyrights");
 - (iii) all royalties, fees, income, payments and other proceeds now or hereafter due or payable with respect to any and all of the foregoing; and
 - (iv) all rights to any actions or claims of any nature related to the foregoing, whether accruing before, on or after the date hereof, including all rights to and claims for damages, restitution and injunctive relief for infringement, dilution, misappropriation, violation, misuse, breach or default, with the right but

no obligation to sue for such legal and equitable relief, and to collect, or otherwise recover, any such damages.

- (b) Terms of the JCTIPH Contribution Agreement. JCI and JCTIPH acknowledge and agree that this IP Assignment is entered into pursuant to the JCTIPH Contribution Agreement, to which reference is made for a further statement of the rights and obligations of JCI and JCTIPH with respect to the Assigned IP. The representations, warranties, covenants, agreements, and indemnities contained in the JCTIPH Contribution Agreement shall not be superseded hereby but shall remain in full force and effect to the full extent provided therein. In the event of any conflict or inconsistency between the terms of the JCTIPH Contribution Agreement and the terms hereof, the terms of the JCTIPH Contribution Agreement shall govern.
- 2. Recordation and Further Actions. The parties to this IP Assignment hereby authorize the Commissioner for Patents and the Register of Copyrights in the United States Copyright Office, and the officials of corresponding entities or agencies in any applicable jurisdictions to record and register this IP Assignment upon request by JCTIPH. Following the date hereof, upon JCTIPH's reasonable request, the other parties to this IP Assignment shall take such steps and actions, and provide such cooperation and assistance to JCTIPH and its successors, assigns, and legal representatives, including the execution and delivery of any affidavits, declarations, oaths, exhibits, assignments, powers of attorney, or other documents, as may be necessary to effect, evidence, or perfect the assignment of the Assigned IP to JCTIPH, or any successor thereto.
- 3. <u>Counterparts</u>. This IP Assignment may be executed in counterparts, each of which shall be deemed an original, but all of which together shall be deemed one and the same agreement. A signed copy of this IP Assignment delivered by facsimile, e-mail, or other means of electronic transmission shall be deemed to have the same legal effect as delivery of an original signed copy of this IP Assignment.
- 4. <u>Successors and Assigns</u>. This IP Assignment shall be binding upon and shall inure to the benefit of the parties hereto and their respective successors and assigns.
- 5. Governing Law. This IP Assignment shall be construed and interpreted according to the laws of the State of Delaware, excluding any choice of law rules that may direct the application of the laws of another jurisdiction. Each party stipulates that any dispute shall be commenced and prosecuted in its entirely in, and consents to the exclusive jurisdiction and proper venue of, either the Milwaukee County Circuit Court for the State of Wisconsin or the United States District Court for the Eastern District of Wisconsin, and each party consents to personal and subject matter jurisdiction and venue in such courts and waive and relinquish all right to attack the suitability or convenience of such venue or forum by reason of their present or future domiciles, or by any other reason.

[SIGNATURE PAGE FOLLOWS]

IN WITNESS WHEREOF, the parties hereto have caused this IP Assignment to be executed on their behalf by their respective duly authorized representatives on the date first written above and effective as of the Effective Date.

Johnson Controls, Inc.	Johnson Controls Tyco IP Holdings LLP
By	Ву
Name: Richard Dancy	Name: Marc Vandiepenbeeck
Title: Vice President	Title: President

IN WITNESS WHEREOF, the parties hereto have caused this IP Assignment to be executed on their behalf by their respective duly authorized representatives on the date first written above and effective as of the Effective Date.

Johnson Controls, Inc.	Johnson Controls Tyco IP Holdings LLP
Ву	By /
Name: Richard Dancy	Name: Marc Vandiepenbeeck
Title: Vice President	Title: President

SCHEDULE 1

ASSIGNED PATENTS

Patents

[See Exhibit B]

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WC100	Johnson Controls Inc.	System And Method For Smoke Detector Performance Analysis	10339793	14/814805	Issued	Sn
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WC100	Johnson Controls Inc.	System And Method For Testing Battery Backup Capacities In Alarm Systems	9361785	14/173485	Issued	S
WC100	Johnson Controls Inc.	Cloud-Based Fire Panel Application		63/168004	Pending	ß
WC100	Johnson Controls Inc.	Spring Bracket	****	63/088780	Pending	S
:WC100	Johnson Controls Inc.	Wireless Walk Through Test System	6737967	10/144161	Issued	S
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WC100	Johnson Controls Inc.	A Control Panel for Fire Alarm Systems		202011056504	Pending	Ξ
WC100	Johnson Controls Inc.	Smoke Detector Addressing Using Optical Interfacing And An Address Pennant		63/138137	Pending	SN
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WC100	Johnson Controls Inc.			17/129405	Pending	S
WC100	Johnson Controls Inc.	Method And System For Configuring An Alarm System		16/698334	Allowed	S
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WC100	Johnson Controls Inc.	QR Code Proximity Testing		17/066202	Published	S
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:WC100	Johnson Controls Inc.	Cloud-Based Fire Protection System and Method		PCT/US2020/027146	Published	ŏ
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:WC100	Johnson Controls Inc.	Fire Alarm Peripheral Addressing Using a Unique Identifier		PCT/US2019/029179	Published	ő
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WC100	Johnson Controls Inc.	Lithium Battery Passivation Detection, Activation and Maintenance Module		PCT/US2019/020978	Published	ò
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WC100	Johnson Controls Inc.	System And Method For Extracting Information From A Non-Planar Surface	10970578	16/270432	Issued	S
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Johnson Controls Inc.	Motion Sensor		29/704574	Pending
Johnson Controls Inc.	Unsupervised Enrollment for Anti-Theft Facial Recognition System		17/287421	Pending
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Johnson Controls Inc.	3274 Fire Detection System With Distributed File System	2018/0627	2018/06274	Issued
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Johnson Controls Inc.	Fire Detection system with automatic firmware opuding		2017201001115	Published
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Johnson Controls Inc.	STROBE NOTIFICATION APPLIANCE AND EMERGENCY LIGHTING APPLIANCE		15/923213	Allowed
Johnson Controls Inc.		9922509	15/004420	Issued
Johnson Controls Inc.	31 Security Panel Gateway System And Method	10616181	15/617678	Issued
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Johnson Controls Inc.	55 Mesh Network Testing System And Method For Fire Alarm System	10074265	15/088533	Issued
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WC100	Contr	Testing a fire detector sensor	7609154	11/587461	Issued	S
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WC100	Johnson Controls Inc.	Detector Devices	9286779	13/578522	Issued	S
WC100	Johnson Controls Inc.	Particulate detector	8559006	13/121467	Issued	S
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WC100	Johnson Controls Inc.	Optical Element Driving Circuit	7994729	12/256066	Issued	S
WC100	Johnson Controls Inc.	Interface between fire panel and elevator controller	8794389	13/173049	Issued	S
WC100	Johnson Controls Inc.	Method And Apparatus For Evaluation Of Temperature Sensors		15/707167	Published	S
WC100	Johnson Controls Inc.	Method And Apparatus For Verifying Service Of Installed Devices Using Rfid	10755555	15/707161	Issued	
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WC100	ing:Johnson Controls Inc.	Method And System For Service Verification Using Wifi Signal Strength Mapping Johnson Controls Inc	10681667	15/707148	Issued	S
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WC100	Johnson Controls Inc.	System And Method For Monitoring Usage And Predicting Failure Of Visual Notification Appliances	8797157	13/173032	Issued	S
WC100	Johnson Controls Inc.	System And Method For Detecting And Suppressing Fire Using Wind Information	10573145	15/973001	Issued	S
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WC100	Johnson Controls Inc.	Smoke Sensor With Test Switch And Method Of Operation Thereof		16/004766	Allowed	S
WC100	Johnson Controls Inc.	Smoke Detector with Airflow Barrier	9343884	14/047938	Issued	S
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WC100	Johnson Controls Inc.	AUTOMATIC CONFIGURATION OF INITIATING DEVICES	8773254	13/193322	Issued	S
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Johnson Controls Inc.	Safety System	EP2625679	11785048.7	Issued
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Johnson Controls Inc.	Detection arrangements	7843324	11/884507	Issued
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	Johnson Contro Johnson Contro Johnson Contro Johnson Contro	LED	EP2862150	13731011.6	Issued
	Johnson Contro Johnson Contro Johnson Contro	Led Strobes With Fixed Pulse Width	2013274534	2013274534	Published
	Johnson Contro Johnson Contro	Led Strobes With Fixed Pulse Width	9053619	14/268862	Issued
	Johnson Contro	Led Strobes With Fixed Pulse Width	8760301	13/495559	Issued
		Current Regulated Led Strobe Drive Circuit		13726335.6	Published
ols Inc. WC100	Johnson Controls Inc.	System And Method For Backup Communication Using Power Over Ethernet	2783478	12813151.3	Issued
ols Inc. WC100	Johnson Controls Inc.	System And Method For Backup Communication Using Power Over Ethernet	2783478	12813151.3	Issued
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ols Inc. WC100	Johnson Controls Inc.	Supervision For A Light Display Device		11749587.9	Published
ols Inc. WC100	Johnson Controls Inc.	Voice Alarm Device		PCT/EP2020/053660	Published
ols Inc. WC100	Johnson Contro	Voice Alarm Device		1901938.9	Published
ols Inc. WC100	Johnson Controls Inc.	Voice Alarm Notification Device		PCT/EP2020/053661	Published
ols Inc. WC100	Johnson Contro	Voice Alarm Notification Device		1901937.1	Published
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	Johnson Contr	AN ELECTRICAL CIRCUIT, A DETECTION SYSTEM AND AN OPERATING METHOD	1867039	<u></u>	lssued
ols Inc. WC100	Johnson Contro	Power Control Circuit		:	Published
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ols Inc. WC100	Johnson Controls Inc.	961 Power control circuit	2019238961	2019238961	Published
ols Inc. :WC100	Johnson Controls Inc.	POWER CONTROL CIRCUIT		PCT/EP2019/056625	Published
ols Inc. ;WC100	Johnson Controls Inc.	Power control circuit	2572223	1804718.3	Issued
ols Inc. WC100	Johnson Controls Inc.	Detector	8154415	12/530241	Issued
ols Inc. WC100	Johnson Controls Inc.	Sounder for alarm unit	D805940	29/590034	Issued
ols Inc. WC100	Johnson Controls Inc.	Identifying A Plurality Of Devices	8232869	12/688531	Issued
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ols Inc. WC100	Johnson Contro	Detector	9134180	12/525928	Issued
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System And Method For Acoustically Identifying Gunshots Fired Indoors :Johnson Controls Inc. :WC100	System And	ļ,	Published
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Synchronization Of Notification Patterns In Alerting Systems Johnson Controls Inc. WC100	: Synchroniz	PCT/US2016/60883	Published
Method And System For Monitoring Fire Alarm Systems Johnson Controls Inc. WC100	Method And	17804951.6	Published
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WC100	Johnson Controls Inc.	System And Method For Detecting A Property Of A Strobe Cover	8624754	12/851958	Issued	
WC100	Johnson Controls Inc.	System And Method For Detecting A Property Of A Strobe Cover	9185774	14/098007	Issued	S
WC100	s Johnson Controls Inc.	Compensation Circuit For Current Peaking Reduction In Notification Appliances	8558472	13/709180	Issued	S
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WC100	Johnson Controls Inc.	Adjustable Strobe Reflector Assembly	8845136	12/749928	Issued	<u>.</u>
WC100	Johnson Controls Inc.	Pseudo non-addressable alarm system	8378806	12/884818	Issued	<u>.</u>
WC100	Johnson Controls Inc.	Configurable Notification Device	8368528	12/572014	Issued	S
WC100	Johnson Controls Inc.	Self-Testing Notification Appliance	8228182	12/483039	Issued	ĺ
WC100	Johnson Controls Inc.	Ground Fault Detection	8373420	12/533828	Issued	ĺ
WC100	Johnson Controls Inc.	Emergency notification appliance mounting bracket	8511630	12/249580	Issued	İ
WC100	Johnson Controls Inc.	Method And Apparatus For Evaluation Of Temperature Sensors	EP345/3/1	18194953.8	Issued	.i
WCIOO	Johnson Controls Inc.	Method And Apparatus For Evaluation Of Temperature Sensors	EP345/3/1	18194953.8	Issued	
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WC100	Johnson Controls Inc.	Method And Apparatus For Evaluation Of Temperature Sensors	602018010325.2	18194953.8	Issued	
WC100	Johnson Controls Inc.	Method And System For Service Verification Using Access Control System		18195315.9	Allowed	₽
WC100	Johnson Controls Inc.	Method And Apparatus For Cloud Based Predictive Service Scheduling And Evaluation		15/707135	Published	
WC100	Johnson Controls Inc.	Method And Apparatus For Cloud Based Predictive Service Scheduling And Evaluation		18194954.6	Published	
WC100	Johnson Controls Inc.	Switchable Strobe Lens	8269637	13/195497	Issued	<u>.</u>
WC100	Johnson Controls Inc.	Switchable Strobe Lens	8049632	12/260728	Issued	S
WC100	Johnson Controls Inc.	VOX CIRCUIT INTERFACE WITH 2-WIRE COMMUNICATION PATHS	2208289	08850142.4	Issued	<u>.</u>
WC100	Johnson Controls Inc.	VOX circuit with 2-wire interfaces	8081778	11/940903	Issued	S
:WC100	Johnson Controls Inc.	VOX CIRCUIT INTERFACE WITH 2-WIRE COMMUNICATION PATHS	2208289	08850142.4	Issued	
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:WC100	Johnson Controls Inc.	Multiple Event Notification Appliance	8138928	12/360461	Issued	Ì
WC100	Johnson Controls Inc.	Non-addressable dual notification appliance	7999692	11/906827	Issued	S
WC100	Johnson Controls Inc.	Method and apparatus for providing occupancy information in a fire alarm system.	7688212	11/881312	Issued	
WC100	Johnson Controls Inc.	System for testing NAC operability using backup power	8558711	11/825213	Issued	
WC100	Johnson Controls Inc.	Self-adjusting and self-modifying addressable speaker	8023661	12/040300	Issued	S
WC100	Johnson Controls Inc.	Optical element driving circuit	7456585	11/432120	Issued	
WC100	Johnson Controls Inc.	Optical element driving circuit	7471049	11/479641	Issued	
WC100	Johnson Controls Inc.	Method and apparatus for verifying operation of notification appliances during low input voltage condition	7333010	11/282358	Issued	
WC100	Johnson Controls Inc.	Method And System For Monitoring Fire Alarm Systems	9978256	15/342427	Issued	S
WC100	Johnson Controls Inc.	Fire Detection System With Self-Testing Fire Sensors	9959748	15/088618	Issued	<u>.</u>
WC100	Johnson Controls Inc.	Door Lock Extender And Method Of Use	10077575	14/943751	Issued	
WC100	Johnson Controls Inc.	Alarm devices - Detector with offset sounder	002938480-0001	002938480	Issued	Ξ
WC100	Johnson Controls Inc.	Contextual Fire Detection And Alarm Verification Method And System	9824574	14/860286	Issued	
WC100	Johnson Controls Inc.	CONTEXTUAL FIRE DETECTION AND ALARM VERIFICATION	EP3147879	16183712.5	Issued	
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WC100	Johnson Controls Inc.	System And Method For Charging Supplemental Power Units For Alarm Notification Devices	10008105	15/095614	Issued	

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WC100	Johnson Controls Inc.	Method Of Finding Orphan Blocks in Block Based Image Compression Schemes	2455214	2455214	Issued	ς
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WC100	Johnson Controls Inc.	Indoor Positioning System For Fire Alarm System		:16/733821	Published	S
WC100	Johnson Controls Inc.	Indoor Positioning System For Fire Alarm System	10565859	15/953627	Issued	S
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WC100	Johnson Controls Inc.	A FIRE DETECTOR	1350235		Issued	
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WC100	Johnson Controls Inc.	Amplifier for multi-use of single environmental sensor	7633386	11/886611	Issued	,
WC100	Johnson Controls Inc.	AN ELECTRICAL CIRCUIT, A DETECTION SYSTEM AND AN OPERATING METHOD THEREOF	1867039	06702888.6	Issued	GB
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WC100	Johnson Controls Inc.	Smoke Detector Tester	10783771	15/765324	Issued	
WC100	Johnson Controls Inc.	Alarm Panel	10163310	15/037085	Issued	S
WC100	Johnson Controls Inc.	ALARM PANEL		PCT/GB2014/053396	Published	ő
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:WC100	Johnson Controls Inc.	TESTING A FIRE DETECTOR SENSOR	1743308	05737836.6	Issued	
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:	2459971 SYSTEM AND METHOD FOR COMMUNICATING DATA IN A VIDEO SYSTEM	2459971		CA Issued
	Systems And Methods Of Access Control With Hand Sanitation	703	Pending 17/215703	
: :	Systems and Methods of Detecting Mask Usage	088	Pending 17/203088	
:	Automatic Switching For Frictionless Access Control	312	Pending 17/216312	
	Systems and Methods of Enforcing Dynamic Thresholds of Social Distancing Rules	276	Pending 17/210276	
1	Video Surveillance system for detecting if surfaces have been sanitized	963	Pending 17/194963	US Per
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	Barcode-Based License Configuration for Air-Gapped Systems	740	Pending 16/855740	
	Graphical User Interface for Time Series Data	598	Pending 16/905598	
	Rich Marker for Mapping Applications	307	Pending 16/904307	
	Power Efficient Ultra-Wideband (UWB) Tag For Indoor Positioning	183	Pending 17/314183	
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W.C.100	Johnson Controls Inc.	Method And System For Monitoring Portal To Detect Entry And Exit	2812889	13701698.6	Issued
WC100	Johnson Controls Inc.	72.3 Method And System For Monitoring Portal To Detect Entry And Exit	602013074272	13701698.6	Issued
WC100	Johnson Controls Inc.	Intelligent Adaptive Power Supply	9397520	13/715389	Issued
WC100	Johnson Controls Inc.	Intelligent Adaptive Power Supply		13197007.1	Published
WC100	Johnson Controls Inc.	Method And Apparatus For Automatically Resolving Conflicting Devices On A Network	2013204397	2013204397	Issued
WC100	Johnson Controls Inc.	Method And Apparatus For Automatically Resolving Conflicting Devices On A Network	2011235937	2011235937	Issued
WC100	Johnson Controls Inc.	Video Based Matching And Tracking	9886634	14/093917	Issued
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.W/C100	Hobbson Controls Inc.	Video based matching and tracking by applicating and as more image.	0600177	.12/0/0577	Published
WCTOO	Johnson Controls Inc.	Nethod And System For Converting Privacy Zone Planar Images To Their Corresponding Panj/Tilt Coordinates	1032/0/52	201180000050	issued
WC100	Johnson Controls Inc.	METHOD AND SYSTEM FOR CONVERTING PRIVACY ZONE PLANAR IMAGES TO THEIR CORRESPONDING PAN/TILT COORDINATES		2815133	Issued
WC100	Johnson Controls Inc.	Method And System For Converting Privacy Zone Planar Images To Their Corresponding Pan/Tilt Coordinates	2011318374	2011318374	Issued
WC100	Johnson Controls Inc.	Method And System For Converting Privacy Zone Planar Images To Their Corresponding Pan/Tilt Coordinates	9794518	12/909502	Issued
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WC100	Johnson Controls Inc.	Method And System For Converting Between A Video Server and Client	EP2/00241	12/1/45/.1	Issued
WC100	Johnson Controls Inc.	and system for load balancing between v	103597844	201280026259.2	Issued
WC100	Johnson Controls Inc.	Method And System For Load Balancing Between A Video Server And Client	9258625	13/089503	Issued
WC100	Johnson Controls Inc.	Method And System For Load Balancing Between A Video Server And Client	EP2700241	12717457.1	Issued
WC100	Johnson Controls Inc.	Method And System For Load Balancing Between A Video Server And Client	EP2700241	12717457.1	Issued
	Johnson Controls Inc.		60 2012 060 899.4	12717457.1	Issued
WC100	Johnson Controls Inc.		2564380	11729335.7	Issued
WC100	Johnson Controls Inc.	2		201180020956.2	Issued
WC100	Johnson Controls Inc	METHOD AND SYSTEM FOR SECURITY SYSTEM TAMPERING DETECTION		7795896	lesting
WC100	Johnson Controls Inc.	Method and system for security system Lampering Detection Method and system for security system Lampering detection	2011247121	2011247121	Issued
WC100	Johnson Controls Inc.	Method And System For Security System Tampering Detection	9286778	14/018624	Issued
WC100	Johnson Controls Inc.	Method And System For Security System Tampering Detection	1180436	13107615.5	Issued
;WC100	Johnson Controls Inc.	Method And System For Security System Tampering Detection	EP3002741	15194368.5	Issued
WC100	Johnson Controls Inc.	METHOD AND SYSTEM FOR SECURITY SYSTEM TAMPERING DETECTION	2564380	11729335.7	Issued
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WC100	Johnson Controls Inc.	METHOD AND SYSTEM FOR SECURITY SYSTEM TAMPERING DETECTION	2564380	11729335.7	Issued
WC100	Johnson Controls Inc.	Systems and methods for distributed monitoring of remote sites	7825792	11/446570	Issued
WC100	Johnson Controls Inc.	System and method for distributed monitoring of remote sites	5508848	2009-513162	Issued
WC100	Johnson Controls Inc.	Systems And Methods For Distributed Monitoring Of Remote Sites	2030180	07794745.5	Issued
WC100	Johnson Controls Inc.	Systems And Methods For Distributed Monitoring Of Remote Sites		200780028664.7	Issued
WC100	Johnson Controls Inc.	Systems And Methods For Distributed Monitoring Of Remote Sites	8013729	12/690220	Issued
WC100	Johnson Controls Inc.	Systems and methods for distributed monitoring of remote sites	7671728	11/446523	Issued
:WC100	Johnson Controls Inc.	Systems And Methods For Distributed Monitoring Of Remote Sites	2581888	13150935.8	Issued
WC100	Johnson Controls Inc.	Systems And Methods For Distributed Monitoring Of Remote Sites	2030180	07794745.5	Issued

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Selection And Display Of Adaptive Rate Streams In Video Security System
And Event Dispatch Using Positioning
Method And System For Adjusting Exposure Settings Of Video Cameras
Authentication System And Method For Embedded Applets
Configuration Of Security Devices Using Spatially-Encoded Optical Machine- Readable Indicia
Configuration Of Security Devices Using Spatially-Encoded Optical Machine- Seadable Indicia
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WC100	Johnson Controls Inc.	Systems And Methods Of Access Validation Using Distributed Ledger Identity		21167839.6	Pending	₩
WC100	Johnson Controls Inc.	Mount		29/727218	Pending	
WC100	Johnson Controls Inc.	Modular Camera Mounts Usable with Security Camera or Access Control Applications		62/987195	Pending	S
WC100	Johnson Controls Inc.	Modular Camera Mounts Usable With Security Camera Or Access Control Applications		17/196269	Pending	S
WC100	Johnson Controls Inc.	Modular Camera Mounts and Cameras for Security, Surveillance, and Access Control Applications		62/987188	Pending	
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WC100	Johnson Controls Inc.	Modular Camera Mounts Usable with Security Camera Applications		62/987189	Pending	S
WC100	Johnson Controls Inc.	Mount		29/727215	Pending	
WC100	Johnson Controls Inc.	Modular Camera Mounts Usable with Security Camera Applications		17/196596	Pending	S
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WC100	Johnson Controls Inc.	Access Control System Screen Capture Facial Detection and Recognition		17/127195	Pending	S
WC100	Johnson Controls Inc.	Methods and Systems for Customized Actions for Access Control		62/983323	Pending	S
WC100	Johnson Controls Inc.	Methods and Systems for Customized Actions for Access Control		17/090188	Pending	
WC100	Johnson Controls Inc.	Methods and Systems for Customized Actions for Access Control		21159514.5	Pending	
WC100	Johnson Controls Inc.	Methods and Systems for Access Control		16/787954	Pending	S
WC100	Johnson Controls Inc.	Systems and methods for establishing secured connections for IoT devices		16/692813	Published	S
WC100	Johnson Controls Inc.	Methods And Systems For Access Control	10748364	16/513286	Issued	S
:WC100	Johnson Controls Inc.	Systems and Methods for Access Control Using Multi-Factor Validation		17/230847	Pending	S
WC100	Johnson Controls Inc.	Systems And Methods For Access Control Using Multi-Factor Validation		21168840.3	Pending	
WC100	Johnson Controls Inc.	Techiques for Detecting a Three-Dimensional Face in Facial Recognition		20757156.3	Pending	Ŧ
WC100	Johnson Controls Inc.	TECHNIQUES FOR DETECTING A THREE-DIMENSIONAL FACE DURING FACIAL RECOGNITION		PCT/US2020/044290	Published	₩ O
WC100	Johnson Controls Inc.	TECHNIQUES FOR DETECTING A THREE-DIMENSIONAL FACE IN FACIAL RECOGNITION		16/534435	Published	
WC100	Johnson Controls Inc.	Inconspicuous Access Control Device		16/664450	Published	S
WC100	Johnson Controls Inc.	System And Method For Access Control Using Differential Air Pressure		16/355305	Published	
:WC100	Johnson Controls Inc.	Battery Backed Power-Over-Ethernet System	9793732	13/056737	Issued	S
WC100	Johnson Controls Inc.	Battery Backed Power-Over-Ethernet System	2332287	09784854.3	Issued	1
WC100	Johnson Controls Inc.	Battery Backed Power-Over-Ethernet System	60 2009 039 037.6	09784854.3	Issued	177
WC100	Johnson Controls Inc.	Battery Backed Power-Over-Ethernet System	EP2332287	09784854.3	Issued	Ŧ
WC100	Johnson Controls Inc.	Battery Backed Power-Over-Ethernet System	102113270	200980129751.0	Issued	
WC100	Johnson Controls Inc.	Battery Backed Power-Over-Ethernet System	2732375	2732375	Issued	-
WC100	Johnson Controls Inc.	Battery backed power-over-ethernet system	2462312	0814154.1	Issued	œ
WC100	Johnson Controls Inc.	Facial Recognition Frictionless Access Control		17/057476	Pending	S
WC100	Johnson Controls Inc.	Facial Recognition Frictionless Access Control		19728831.9	Published	Ŧ
:WC100	Johnson Controls Inc.	Facial Recognition Frictionless Access Control		PCT/US2019/033111	Published	õ
WC100	Johnson Controls Inc.	SYSTEM'S AND METHODS OF LOCK AND POWERED LOAD ENUMERATION AND SECURE ACTIVATION	US10861264	16/204239	Issued	S
WC100	Johnson Controls Inc.	SYSTEMS AND METHODS OF LOCK AND POWERED LOAD ENUMERATION AND SECURE ACTIVATION		19155619.0	Published	
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:WC100	Johnson Controls Inc.	Identity Token Based Security System And Method		PCT/US2016/047563	Published
:WC100	Johnson Controls Inc.	Identity Token Based Security System And Method	10013826	15/240569	Issued
WC100	Johnson Controls Inc.	Frictionless Access System For Public Access Point		PCT/US2016/033597	Published
WC100	Johnson Controls Inc.	Portable Device Having Directional Ble Antenna		16730083.9	Published
WC100	Jahnson Controls Inc.	Frictionless Access System For Public Access Point		16727274.9	Published
WC100	Johnson Controls Inc.	Portable Device Having Directional Ble Antenna	10403066	15/160775	Issued
:WC100	Jahnson Controls Inc.	Frictionless Access System For Public Access Point	9947155	15/160765	Issued
WC100	Johnson Controls Inc.	Video Recognition In Frictionless Access Control System	9865144	15/160753	Issued
WC100	Johnson Controls Inc.	Tailgating Detection In Frictionless Access Control System	10235854	15/160736	Issued
WC100	Johnson Controls Inc.	Access Control System With Omni And Directional Antennas	10158550	15/160722	Issued
WC100	Johnson Controls Inc.	System And Method For Distributed Video Analysis	10701321	14/634428	Issued
WC100	Johnson Controls Inc.	Method And System For Queue Length Analysis		16/561419	Published
WC100	Johnson Controls Inc.	Method And System For Queue Length Analysis	10445589	15/939452	Issued
WC100	Johnson Controls Inc.	Method And System For Queue Length Analysis	9965684	14/575567	Issued
WC100	Johnson Controls Inc.	Method And System For Queue Length Analysis		15200949.4	Allowed
WC100	Johnson Controls Inc.	Auto Configuration For Auto-Enrolled Access Controller Systems	1	2965991	Published
WC100	Jahnson Controls Inc.	Auto Configuration For Auto-Enrolled Access Controller Systems	10326767	14/497445	Issued
WC100	Johnson Controls Inc.	Method And System For Access Control Proximity Location	÷	PCT/US2015/043455	Published
WC100	Johnson Controls Inc.	Method And System For Access Control Proximity Location	10373408	15/599641	Issued
WC100	Johnson Controls Inc.	Method And System For Access Control Proximity Location	9697656	14/605165	Issued
WC100	Johnson Controls Inc.	LIGHTNING AND SURGE PROTECTION FOR ELECTRONIC CIRCUITS		PCT/US2015/043561	Published
WC100	Johnson Controls Inc.	Lightning And Surge Protection For Electronic Circuits	9912149	14/573063	Issued
WC100	Johnson Controls Inc.	Residential Security Using Game Platform	10269224	14/496050	Issued
WC100	Johnson Controls Inc.	Method And System For Managing Evacuations Using Positioning Systems	3149716	15718421.9	Issued
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WC100	Johnson Controls Inc	METHOD AND SYSTEM FOR MANAGING EVACUATIONS USING POSITIONING		PCT/US2015/026566	Published
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WC100	Johnson Controls Inc.	MOBILE ACCESS CONTROL SYSTEM WITH GEO-TAGGING		PCT/US2015/026565	Published
WC100	Johnson Controls Inc.	Supervised input converter	7154425	10/637388	Issued
WC100	Johnson Controls Inc.	Using Video Analytics To Detect Incorrect Mask Usage		17/180074	Pending
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l.	Johnson Controls Inc	Automatic Creation And Management Of Digital Identity Profiles For Access		17/195219	Pending
	Johnson Controls Inc.	Birth Private-Kev Based Security for Rest API in IOT Devices		17/214473	Pending
:WC100	Johnson Controls Inc.	Secure Low-Latency and Low Throughput Support of Rest API in IOT Devices		17/214468	Pending
WC100	Johnson Controls Inc.	Enhanced Entry Authorization		63/074350	Pending
WC100	Johnson Controls Inc.	Enhanced Entry Authorization		17/143693	Pending
WC100	Johnson Controls Inc.	Security System with Hand Sanitization		63/065737	Pending
WC100	Johnson Controls Inc.	Security System with Hand Sanitization		17/145029	Pending
WC100	Johnson Controls Inc.	Security System with Temperature Sensing		63/065742	Pending
WC100	Johnson Controls Inc.	Security System with Temperature Sensing		17/145032	Pending
WC100	Johnson Controls Inc.	Systems And Methods Of Access Validation Using Distributed Ledger Identity Management		17/186719	Pending
:WC100	Johnson Controls Inc.	Systems And Methods Of Access Validation Using Distributed Ledger Identity Management		21167827.1	Pending
WC100	Johnson Controls Inc.	Systems And Methods Of Access Validation Using Distributed Ledger Identity Management		63/009238	Pending
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WC100	Johnson Controls Inc.	Methods And Apparatus For Management Of Intrusion Detection Systems	10896586	16/574479	Issued	S
WC100	Johnson Controls Inc.	Methods And Apparatus For Management Of Intrusion Detection Systems Using Verified Identity	10453319	15/911613	Issued	Sn
WC100	Johnson Controls Inc.	Methods And Apparatus For Implementing Identity And Asset Sharing Management		15/911560	Allowed	S
WC100	Johnson Controls Inc.	Identity management for implementing vehicle access and operation management	10829088	15/911512	Issued	S
WC100	Johnson Controls Inc.	Use Of Identity And Access Management For Service Provisioning		15/911537	Published	S
WC100	Johnson Controls Inc.	Methods And Apparatus For Management Of Intrusion Detection Systems Using Verified Identity		18195994.1	Published	₽
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		Management				
WC100	Johnson Controls Inc.	Identity Management For Implementing Vehicle Access And Operation		18196020.4	Published	₽!
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WC100	Johnson Controls Inc.	Multi Facility Earthquake Automation System And Method	10379237	15/624195	Issued	S
WC100	Johnson Controls Inc.	Multi Facility Farthquake Automation System And Method	10955573	16/376418	Issued	5
:WC100	Johnson Controls Inc.	Building bots interfacing with security systems	10852751	16/027468	Issued	S
:WC100	Johnson Controls Inc.	System And Method For Controlling Access At Access Point	10181230	15/492490	Issued	S
WC100	Johnson Controls Inc.	System And Method For Energy Saving On Access Control Products	10332370	15/478996	Issued	S
WC100	Johnson Controls Inc.	System And Method For Energy Saving On Access Control Products		18164355.2	Published	٦
WC100	Johnson Controls Inc.	System And Method For Facilitating Access To Access Points In Access Control System		15/603836	Published	S
WC100	Johnson Controls Inc.	Door system with power management system and method of operation thereof	10937262	15/690770	Issued	S
		Transfer To Door				
WC100	Johnson Controls Inc.	System And Method For Providing Communication Over Inductive Power	10943415	15/690763	Issued	S
WC100	Johnson Controls Inc.	System And Method For Inductive Power Transfer To Door	10968669	15/690743	Issued	S
WC100	Johnson Controls Inc.	Frictionless Access Control System Providing Ultrasonic User Location	11030835	16/205806	Allowed	S
WC100	Johnson Controls Inc.	Frictionless Access Control System With Ranging Camera		15/729929	Published	S
WC100	Johnson Controls Inc.	Frictionless Access Control System With Ceiling Tile Positioning Unit		15/729928	Published	Š
WC100	Johnson Controls Inc.	Frictionless Access Control System With User Tracking And Omni And Dual Probe Directional Antennas	10540834	15/729926	Issued	S
WC100	Johnson Controls Inc.	Repeater For Frictionless Access Control System		15/278814	Published	S
WC100	Johnson Controls Inc.	Method and System for Non-Authoritative Identity and Identity Permissions Broker and Use Thereof		17701360.4	Published	EP
WC100	Johnson Controls Inc.	METHOD AND SYSTEM FOR NON-AUTHORITATIVE IDENTITY AND IDENTITY PERMISSIONS BROKER AND USE THEREOF		PCT/IB2017/050093	Published	Wo
WC100	Johnson Controls Inc.	Method And System For Non-Authoritative Identity And Identity Permissions Broker And Use Thereof		14/988472	Published	S
WC100	Johnson Controls Inc.	Access And Automation Control Systems With Mobile Computing Device		16/98928.4	Published	Ψ
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WC100		Capacitive Touch	10438425	15/205911	Issued	S
WC100	Johnson Controls Inc.	System And Method For Controlling Access To An Access Point		17703014.5	Published	Р
:WC100	Johnson Controls Inc.	System And Method For Controlling Access To An Access Point	10373412	15/014457	Issued	S
WC100	Johnson Controls Inc.	Access Control System with Curtain Antenna System	10565811	15/015723	Issued	S
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nson Controls Inc. nson Controls Inc. nson Controls Inc. nson Controls Inc.		10057546	14/249687	Issued
nson Controls Inc. nson Controls Inc. nson Controls Inc.	ds For Automated Cloud-Based Analytics For Security	10594985	15/999403	lssued
nson Controls Inc. nson Controls Inc.	wireless Video Surveillance System And Method	CN101065980B	200580040922.4	Issued
nson Controls Inc.	Wireless video surveillance jamming and interference prevention	7925219	12/550935	Issued
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inson Controls Inc.	Wireless Surveillance system And Wethod For 3-D Visualization And User- Controlled Analytics Of Captured Data	8395664	12/380807	Issued
ohnson Controls Inc.	ocking Of J	8754946B2	12/874599	Issued
ohnson Controls Inc.	SYSTEMS AND METHODS OF REMOTE PAN TILT SEALED SPHEROID CAMERAS MAINTAINING LEVEL IMAGE WHEN WALL OR CEILING MOUNTED	US10708509	16/188463	Issued
ohnson Controls Inc.	Sensor System Having Transparent Window Contaminant Removal Using Vibration Vibration		16/252287	Published
ohnson Controls Inc.	SYSTEMS AND METHODS OF ELIMINATING VIDEO FLICKER CAUSED BY LED DUTY CYCLING TO MAINTAIN BRIGHTNESS AND CONTROL POWER CONSUMPTION		16/156806	Published
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ohnson Controls Inc.	Wall Or ceiling wounted Surveillance Camera For Day/Night Transitions And Method Therefor John		PCT/US2019/016912	Published
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ohnson Controls Inc.	Access Control System Embodying Satellite Cameras For Facial J		16/753571	Published
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ohnson Controls Inc.	Security Camera System With Multi-Directional Mount And Method Of Operation	10713811	15/818821	Issued
ohnson Controls Inc.	Method Of		15/818818	Published
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Johnson Controls Inc.	Systems And Methods For Remotely Viewing Data And	11037419	16/590298	Allowed
ohnson Controls Inc.	And	10573143	16/367097	Issued
Johnson Controls Inc.		10475314	16/171857	Issued
lohnson Controls Inc.	Wireless Environmental Data Capture System And Method For Mesh Networking	10194119	15/803661	Issued
Johnson Contro		D633121	29/364668	Issued
lohnson Controls Inc.	Systems And Methods For Automated Cloud-Based Analytics For Security And/Or Surveillance		15777105.6	Published
Johnson Controls Inc.			PCT/US2015/024808	
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lohnson Controls Inc.		9407879	14/845439	Issued
Johnson Controls Inc.	Systems And Methods For Automated Cloud-Based Analytics For Security And/Or Surveillance	9749596	15/220453	Issued
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Johnson Controls Inc.	Systems And Methods For Automated Analytics For Security in Operation Areas	10217003B2	15/369619	Issued
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lohnson Controls Inc.	Systems and Methods for an Automated Cloud-Based Video Surveillance System		14/926189	Allowed
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lohnson Controls Inc.	Systems And Methods For Automated Cloud-Based Analytics For Surveillance Systems With Unmanned Aerial Devices	9747502	15/220449	Issued
Johnson Controls Inc.		9407881	14/865684	Issued
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ohnson Controls Inc.	Systems And Methods For Automated Cloud-Based Analytics And 3- Dimensional (3D) Display For Surveillance Systems	9514371	15/220463	Issued
21112011	Analytics For Security Surveillance In Operation Areas	30.T#37.0	10/ 22/61	וסטמדט
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WC100	Johnson Controls Inc.	Wireless Environmental Data Capture System and Method for Mesh	10685543	16/674416	Issued
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WC100	Johnson Controls Inc.	Video Summarization Systems And Methods		16/399744	Published
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WC100	Johnson Controls Inc.			16/756905	Pending
WC100	Johnson Controls Inc.	Methods And System for Monitoring and Assessing Employee Moods		PCT/US2018/058984	Published
WC100	Johnson Controls Inc.	Methods and System for Distributed Cameras and Demographics Analysis		16/756904	Pending
WC100	Johnson Controls Inc.	Methods and System for Distributed Cameras and Demographics Analysis		18807181.5	Published
WC100	Johnson Controls Inc.	Methods and System for Distributed Cameras and Demographics Analysis		PCT/US2018/058976	Published
WC100	Johnson Controls Inc.	Tracking Methods and System for Controlling Access to Enterprise Resources Based on Tracking		18807180.7	Published
WC100	Johnson Controls Inc.	Methods and System for Controlling Access to Enterprise Resources Based on		PCT/US2018/058971	Published
WC100	Johnson Controls Inc.	Methods and System for Controlling Access to Enterprise Resources Based on Tracking		16/757129	Published
WC100	Johnson Controls Inc.	Method And System For Object Location Notification In A Fire Alarm System		:15/333984	Published
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WC100	Johnson Controls Inc.	Surface And Mothod Ear Configuration Company Light Mobile	10/75215	15/076713	Issued
WC100	Johnson Controls Inc.	System And Method For Distributed Video Storage Across Enterprises	10728585	15/196585	Issued
WC100	Johnson Controls Inc.	System And Method For Position Tracking And Image Information Access		14/741102	Published
WC100	Johnson Controls Inc.	Wide Angle Fisheye Security Camera Having Offset Lens And Image Sensor	10044932	14/683342	Issued
WC100	Johnson Controls Inc.	Efficient Process For Camera Call-Up	10277869	14/567008	Issued
WC100	Johnson Controls Inc.	System And Method For Automated Camera Guard Tour Operation		15778132.9	Published
WC100	Johnson Controls Inc.	System And Method For Automated Camera Guard Tour Operation	О.	2962590	Published
WC100	Johnson Controls Inc.	System And Method For Automated Camera Guard Tour Operation		PCT/US2015/052049	Published
WC100	Johnson Controls Inc.	System and Method for Automated Camera Guard Tour Operation	10645311	16/106922	Issued
WC100	Johnson Controls Inc.	System And Method For Automated Camera Guard Tour Operation	10070077	14/498263	Issued
WC100	Johnson Controls Inc.	Security Camera Having A Body Orientation Sensor And Method Of Use		PCT/US2015/52045	Published
WC100	Johnson Controls Inc.	Security Camera Having A Body Orientation Sensor And Method Of Use	9628688	14/496901	Issued
:WC100	Johnson Controls Inc.	Network Video Recorder Cluster And Method Of Operation	10516856	16/120712	Issued
WC100	Johnson Controls Inc.	Network Video Recorder Cluster And Method Of Operation	10097795	14/873097	Issued
WC100	Johnson Controls Inc.	Wireless Environmental Data Capture System And Method For Mesh Networking		17/330211	Pending
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Pending 17/143727	27	Enhanced Temperature Measurement Techniques	Johnson Controls Inc.
	54	Enhanced Temperature Measurement Techniques	Johnson Controls Inc.
Pending :17/315132	32	Multi-Stream Peak Bandwidth Dispersal	Johnson Controls Inc.
Published :15844243.4	3.4	Auto Configuration For Auto-Enrolled Access Controller Systems	Johnson Controls Inc.
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Interior	WC100	Johnson Controls Inc.	System And Method For Providing Communication Over Inductive Power Transfer To Door	10943415	15/690763	Issued	S
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Schedule B-1 Johnson Controls, Inc.

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	Automating Inspection Using Neural Network	Thermoelectric sensor power	Power Efficient Ultra-Wideband (Uwb) Tag For Indoor Positioning	Power Efficient Ultra-Wideband (UWB) Tag For Indoor Positioning	Power Efficient Ultra-Wideband (UWB) Tag For Indoor Positioning	ULTRA-WIDEBAND (UWB) BEACON AND TAG FOR INDOOR POSITIONING, AND CORRESPONDING POSITIONING METHOD	SPACE OPTIMIZATION WITHIN THE BUILDING	SYSTEMS AND METHODS OF PROVIDING OCCUPANT FEEDBACK TO ENABLE	Systems and methods of providing occupant feedback to enable space optimization within the building	Optimization within the Building	Systems and Methods of Providing Occupant Feedback to Enable Space	System and method for tracking students	System and Method for Tracking Locations of Students within School Buildings	Building Management System with Blockchain Ledger	System and Method for Detecting Room Occupancy with Beamforming Microphone Arrays	System and method for detecting room occupancy with beamforming microphone arrays	System and Method for Detecting Room Occupancy with Beamforming Microphone Arrays	System and Method for Controlling Building Management Systems for Scheduled Events	System and Method for Controlling Building Management Systems for Scheduled Events	System and Method for Controlling Building Management Systems for Scheduled Events	System And Method For Providing Power To Building Management System Components Using Inductive Coupling	System And Method For Providing Power To Building Management System Components Using Inductive Coupling	System And Method For Providing Power To Building Management System Components Using Inductive Coupling	Automatic Configuration Of Analytics Rules For A Camera	video Analytics scene classification And Automatic Camera Configuration based Johnson Controls Inc. Automatic Selection Of Camera Profile	Methods and Systems for an Access Control System Using Visual Recognition	Methods and Systems for an Access Control System Using Visual Recognition	Method And System For Enhancing Security Of A Secured Area	Sensor System Having Transparent Window Contaminant Removal Using Vibration	Sensor System Having Transparent Window Contaminant Removal Using Vibration	SYSTEMS AND METHODS OF ELIMINATING VIDEO FLICKER CAUSED BY LED DUTY CYCLING TO MAINTAIN BRIGHTNESS AND CONTROL POWER CONSUMPTION	SYSTEMS AND METHODS OF ELIMINATING VIDEO FLICKER CAUSED BY LED DUTY CYCLING TO MAINTAIN BRIGHTNESS AND CONTROL POWER CONSUMPTION	ā
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Schedule B-1 Johnson Controls, Inc.

WC100	Johnson Controls Inc.	Architecture for Access Management	104/52/3	15/822300	Issued
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	Johnson Controls Inc.	Architecture For Access Management	9858781	15/596028	Issued
WC100	Johnson Controls Inc.	Architecture For Access Management		PCT/US2017/049277	Published
WC100	Johnson Controls Inc.	Architecture For Access Management	11010754	15/595818	Issued
WC100	Johnson Controls Inc.	Architecture For Access Management		PCT/US2017/049006	Published
WC100	Johnson Controls Inc.	Architecture For Access Management	10692321	15/594826	Issued
WC100	Johnson Controls Inc.	Architecture For Access Management		PCT/US2017/048998	Published
WC100	Johnson Controls Inc.	Architecture for Access Management	10685526	16/105462	Issued
WC100	Johnson Controls Inc.	Architecture For Access Management	10055926	15/594861	Issued
WC100	Johnson Controls Inc.	Architecture For Access Management		PCT/US17/48798	Published
WC100	Johnson Controls Inc.	Architecture For Access Management	10475272	15/594750	Issued
WC100	Johnson Controls Inc.	Architecture For Access Management		PCT/US17/048604	Published
WCIOO	Johnson Controls Inc.	SYSTEMS AND METHODS OF ENABLING BLOCKCHAIN-BASED BUILDING AUTOMATION SYSTEMS		PC1/IB2019/059243	Published
			1000	107 00000	
WC100	Johnson Controls Inc	System To Provide A Security Technology And Management Portal	10650248	15/989754	Issued
WC100	Johnson Controls Inc	Method to provide a security technology and management nortal	9984795	15/164163	lssued
W/C100	Ichnson Controls Inc		0278622	14/60/8007	5000
WC100	Johnson Controls Inc.	Method And System For Self-Discovery And Management Of Wireless Security		PCT/US2014/047530	Published
WC100	Johnson Controls Inc.	Method And System For Self-Discovery And Management Of Wireless Security Devices		15/174209	Published
WC100	Johnson Controls Inc.	Method and system for self-discovery and management of wireless security devices	9384611	13/952306	Issued
WC100	Johnson Controls Inc.	Method And System For Self-Discovery And Management Of Wireless Security Devices	3025460	14750847.7	Issued
۷۷۷	Sommson Controls Inc.	Devices	3023480	14/3084/./	Issued
W/C100	Lebecan Controls Inc	Mathad And Soft m Far Soft Discours, And Management Of Wireless Society	2025 460	1 7750077 7	2
WC100	Johnson Controls Inc.	Method And System For Self-Discovery And Management Of Wireless Security	3025460	14750847.7	Issued
WC100	Johnson Controls Inc.	Method And System For Mobile Duress Alarm	10460590	15/220126	Issued
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W/C100	Hohmson Controls Inc	Predicting Service For Intrusion and Alarm Systems Resed On Signal Activity	10380571	15/173775	lection
	Johnson Controls Inc.	Nount Device Enabled Identity Authoritisation	D8929095	168/17089 6	Allowed
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WC100	Johnson Controls Inc.	Wall mounts	006730826-0001	006730826-0001	Se Se
WC100	Johnson Controls Inc.	Camera Housing	D890834	29/631180	Issued
WC100	Johnson Controls Inc.	Camera Housing	0067308-0001	006730818-0001	Issued
WC100	Johnson Controls Inc.	Mount		29/727218	Pending
WC100	Johnson Controls Inc.	Mount	008162382-0004	008162382-0004	Issued
WC100	Johnson Controls Inc.	Mount	008162382-0003	008162382-0003	Issued
WC100	Johnson Controls Inc.	Mount	008162382-0002	008162382-0002	Issued
WC100	Johnson Controls Inc.	Mount	008162382-0001	008162382-0001	Issued
WC100	Johnson Controls Inc.	Mount		17/210276	Pending
WC100	Johnson Controls Inc.	Mount	008162374-0003	008162374-0003	Issued
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Schedule B-1 Johnson Controls, Inc.

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			9824514	10301018	3207435	3207435	602015029284.7				10068077	10147307	9384656		9466189		425855 2425855	11004326	8970349				10606224	
Method And Apparatus For Authenticating Security System Users And Unlarking Selected Feature Sets	Fixed Drone Visualization In Security Systems	Applying Geographical Limitations To Control Actions Of A Security System	Applying Geographical Limitations To Control Actions Of A Security System	Fixed Drone Visualization In Security Systems	Drone Tours In Security Systems	Drone Tours In Security Systems	Unlocking Selected Feature Sets	Method And Apparatus For Authenticating Security System Users And	False Alarm Avoidance In Security Systems Filtering Low In Network	False Alarm Avoidance In Security Systems Filtering Low In Network	False Alarm Avoidance In Security Systems Filtering Low In Network	False Alarm Avoidance In Security Systems	False Alarm Avoidance In Security Systems	A Method Of Searching Recorded Digital Video For Areas Of Activity	System and Method for Monitoring a Location	System To Provide A Security Technology And Management Portal	Device Enabled Identity Authentication	Architecture For Access Management						
Johnson Controls Inc.	Johnson Controls Inc.	Johnson Controls Inc.	Johnson Controls Inc.	Johnson Controls Inc.	Johnson Controls Inc.	Johnson Controls Inc.	Johnson Controls Inc.	Johnson Controls Inc.	Johnson Controls Inc.		Johnson Controls Inc.	Johnson Controls Inc.	Johnson Controls Inc.	Johnson Controls Inc.	Johnson Controls Inc.	Johnson Controls Inc.	Johnson Controls Inc.	Johnson Controls Inc.	Johnson Controls Inc.	Johnson Controls Inc.	Johnson Controls Inc.	Johnson Controls Inc.	Johnson Controls Inc.	Johnson Controls Inc.
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SCHEDULE 2

ASSIGNED COPYRIGHTS

Copyright Registrations

[See Exhibit B]

4834-5601-3299.1

Johnson Controls, Inc.

EXHIBIT B - Preliminary

Company Intellectual Property

Schedule 1 – Patents

Attached as Schedule B-1

Schedule 2 – Copyright Registrations

U.S. Copyright Registration	Title	Registration Date	Owner
USCOPYRIGHT TX 006907225	JCI PWI Energy tracker tool.	December 10, 2008	Johnson Controls, Inc.
USCOPYRIGHT VAu000616613	Menahga Public Schools, Independent School		Johnson Controls, Inc.
	District No. 821, classroom addition, Menahga,		
	Minnesota: project no. 04016.	May 18, 2004	
USCOPYRIGHT VAu000616612	Menahga Public Schools, Independent School		Johnson Controls, Inc.
	District No. 821, classroom addition, Menahga,		
	Minnesota : project no. 04016.	May 18, 2004	
USCOPYRIGHT TX 005872616	LBS source code.	November 19, 2003	Johnson Controls, Inc.
USCOPYRIGHT TX 005785798	[Metasys system extended architecture]	August 05, 2003	Johnson Controls, Inc.
USCOPYRIGHT TXu001080967	Johnson Controls, Inc., legal homepage.	April 24, 2002	Johnson Controls, Inc.
USCOPYRIGHT VAu000464956	Building for a great future Willow River		Johnson Controls, Inc.
	Elementary rejuvenation project.	December 20, 2001	
USCOPYRIGHT VAu000464955	Willow River phasing plan.	December 20, 2001	Johnson Controls, Inc.
USCOPYRIGHT TXu001008399	Willow River Elementary School building		Johnson Controls, Inc.
	assessment & improvement recommendations.	December 20, 2001	
USCOPYRIGHT TX 004822793	Building environments : HVAC systems / Alan J.		Johnson Controls, Inc.
	Zajac.	July 02, 1998	
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Johnson Controls, Inc.	November 16, 2011	4100ES Master Code.	USCOPYRIGHT TX 007469559
Johnson Controls, Inc.	March 21, 2012	TrueSite Workstation 2.04.	USCOPYRIGHT TX 007519736
Johnson Controls, Inc.	May 02, 2012	Modem Bridge.	USCOPYRIGHT TXu001832767
Johnson Controls, Inc.	May 02, 2012	TCP/IP Physical Bridge.	USCOPYRIGHT TXu001832773
Johnson Controls, Inc.	May 02, 2012	Network System Integrator.	USCOPYRIGHT TXu001832780
Johnson Controls, Inc.	June 11, 2012	IDNET1+ Slave.	USCOPYRIGHT TXu001815928
Johnson Controls, Inc.	June 11, 2012	4100/4014 ES 1.03 Master.	USCOPYRIGHT TXu001817125
Johnson Controls, Inc.	June 11, 2012	EPS Slave.	USCOPYRIGHT TXu001817128
Johnson Controls, Inc.	June 11, 2012	NXNA Hornstrobe notification device.	USCOPYRIGHT TXu001832769
Johnson Controls, Inc.	June 11, 2012	Programmer NetSync 1.03.	USCOPYRIGHT TXu001832784
Johnson Controls, Inc.	September 04, 2012	Network Programmer 1.5.	USCOPYRIGHT TXu001827497
2 Johnson Controls, Inc.	September 04, 2012	TrueSITE Workstation 3.01.	USCOPYRIGHT TXu001827498
Johnson Controls, Inc.	February 25, 2013	NXNA Hornstrobe Bootloader 1.01.	USCOPYRIGHT TXu001854104
Johnson Controls, Inc.	February 25, 2013	NXNA Hornstrobe 1.02.	USCOPYRIGHT TXu001854105
Johnson Controls, Inc.	February 25, 2013	NXNA Repeater 1.01.	USCOPYRIGHT TXu001854106
Johnson Controls, Inc.	February 25, 2013	DCAI MAIN CPU 1.01.	USCOPYRIGHT TXu001854107
Johnson Controls, Inc.	February 25, 2013	DCAI Short Circuit CPU 1.01.	USCOPYRIGHT TXu001854114
Owner	Registration Date	Title	U.S. Copyright Registration

U.S. Copyright Registration	Title	Registration Date	Owner
USCOPYRIGHT TX 007631718	CCURE 800/8000 Security System Version		Johnson Controls, Inc.
	10.3.0.	December 05, 2012	
USCOPYRIGHT TX 007631707	CCURE 800/8000 Security System Version		Johnson Controls, Inc.
	10.2.0.	December 05, 2012	
USCOPYRIGHT TX 007473413	CCURE 9000 Security System Version 2.02.	November 10, 2011	Johnson Controls, Inc.
USCOPYRIGHT TX 007466928	CCURE 9000 Security System Version 2.01.	November 09, 2011	Johnson Controls, Inc.
USCOPYRIGHT TX 007400529	CCURE 800/8000 Security System Version		Johnson Controls, Inc.
	10.1.0.	May 24, 2011	
USCOPYRIGHT TX 007451724	CCURE 9000 Security System Version 1.93.	September 20, 2011	Johnson Controls, Inc.
USCOPYRIGHT TX 007390047	CCURE 800/8000 Security System Version		Johnson Controls, Inc.
	10.0.0.	April 21, 2011	
USCOPYRIGHT VA 001698889	Circle Device with Curves.	January 07, 2010	Johnson Controls, Inc.
USCOPYRIGHT TX 007451766	CCURE 9000 Security System Version 1.92.	September 20, 2011	Johnson Controls, Inc.
USCOPYRIGHT TX 006605242	Ultra post configurator 6.41.	June 21, 2007	Johnson Controls, Inc.
USCOPYRIGHT TX 001748456	Sensormatic : profits through merchandise		Johnson Controls, Inc.
	preservation.	February 03, 1986	
USCOPYRIGHT TX 001678515	From the leader in loss prevention : Calculating		Johnson Controls, Inc.
	your return on an investment with Sensormatic.	October 17, 1985	

Schedule 3 – Software

Metasys

a. Metasys (including but not limited to Launcher)

. OpenBlue

- OpenBlue Active Responder
- OpenBlue Companion (hosted/public cloud based)
- OpenBlue Companion (on prem/private cloud)
- OpenBlue Enterprise Manager
- i. PPT Installer
- OpenBlue Enterprise Manager- Gateway Hardware
- OpenBlue Location Manager Social Distance Monitoring and Contact Tracing
- OpenBlue Location Manager Space and Workflow Advisor
- OpenBlue Location Manager Intelligent Laboratories
- OpenBlue Plant Optimizer (on prem/private cloud)
- OpenBlue Plant Optimizer (hosted/public cloud based)
- . OpenBlue Plant Simulator
- OpenBlue Plant Monitor
- . OpenBlue Twin

- . OpenBlue Cloud
- OpenBlue Bridge
- OpenBlue Risk Insight
- Programmable Advanced Terminal Unit Controller
- Configurable Advanced Terminal Unit Controller
- . BCPro
- . Cloudvue
- ES Touch Screen Display (ESTSD)
- False Alarm Reduction Services
-). Mobile Access Portal Gateway (including but not limited to TL, YK, WNC)
- 11. Fume Hood Controllers
- . Lighting Controls
- Room Pressure Monitors
- Room Pressure ControllersVenturi Air Valves
- 16. Connected Equipment and Connected Chiller
- Johnson Controls Field and Equipment Controllers
- MAP Update Tool (MUT)
- 19. NS Series Network Sensors
- 20. PENN® Refrigeration Controls21. System Configuration Editions
- PENN Connected Refrigeration
- . PENN Connected Food Safety
- 24. Room Module (SC120 Models) / SC120 遍控器
- 5. SafeLINC
- Software Activation Manger (SAM)
- 27. Suppression Design Center (SDC)28. TEC Thermostat Controllers
- 29. True Insight
- 30. TrueSite Workstation Software Maintenance Agreement
- 31. Verasys Smart Building Hub
- Verasys Enterprise
- 33. XaaP Inspection Software Service

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