PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT7098383

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
SEQUENCE:	2

CONVEYING PARTY DATA

Name	Execution Date
JOHNSON CONTROLS US HOLDINGS LLC	06/17/2021

RECEIVING PARTY DATA

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

PROPERTY NUMBERS Total: 172

Property Type	Number
Application Number:	10144161
Application Number:	10645396
Application Number:	10705146
Application Number:	10720810
Application Number:	10733979
Application Number:	10835930
Application Number:	10872852
Application Number:	10873027
Application Number:	10914666
Application Number:	11282358
Application Number:	11432120
Application Number:	11479641
Application Number:	11500851
Application Number:	11514612
Application Number:	11580654
Application Number:	11587461
Application Number:	11796008
Application Number:	11825213
Application Number:	11881312

PATENT REEL: 058599 FRAME: 0922

507051545

Property Type	Number
Application Number:	11884291
Application Number:	11884507
Application Number:	11886611
Application Number:	11906827
Application Number:	11921111
Application Number:	11921113
Application Number:	12040300
Application Number:	12249580
Application Number:	12256066
Application Number:	12260728
Application Number:	12277790
Application Number:	12360461
Application Number:	12483039
Application Number:	12525928
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Application Number:	12749928
Application Number:	12851958
Application Number:	12884818
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Application Number:	13005704
Application Number:	13042191
Application Number:	13121467
Application Number:	13160185
Application Number:	13173032
Application Number:	13173049
Application Number:	13193304
Application Number:	13193322
Application Number:	13195497
Application Number:	13207140
Application Number:	13249466
Application Number:	13271976
Application Number:	13325724
Application Number:	13369099
Application Number:	13422368
Application Number:	13432327

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Application Number:	13495559
Application Number:	13525427
Application Number:	13540690
Application Number:	13578522
Application Number:	13601585
Application Number:	13610801
Application Number:	13688441
Application Number:	13709180
Application Number:	13780244
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Application Number:	13877045
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Application Number:	13877312
Application Number:	13889448
Application Number:	13890351
Application Number:	13896906
Application Number:	13921743
Application Number:	13929335
Application Number:	14046157
Application Number:	14047938
Application Number:	14070896
Application Number:	14075157
Application Number:	14084721
Application Number:	14095172
Application Number:	14098007
Application Number:	14157847
Application Number:	14173485
Application Number:	14259176
Application Number:	14268862
Application Number:	14315721
Application Number:	14319839
Application Number:	14324816
Application Number:	14341549
Application Number:	14364080

Property Type	Number
Application Number:	14455024
Application Number:	14514071
Application Number:	14514083
Application Number:	14514097
Application Number:	14514113
Application Number:	14514120
Application Number:	14670921
Application Number:	14728373
Application Number:	14814805
Application Number:	14831977
Application Number:	14860286
Application Number:	14863674
Application Number:	14943751
Application Number:	14988949
Application Number:	15004420
Application Number:	15037085
Application Number:	15058623
Application Number:	15088533
Application Number:	15088618
Application Number:	15095614
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Application Number:	15095697
Application Number:	15342427
Application Number:	15378363
Application Number:	15446256
Application Number:	15446289
Application Number:	15600509
Application Number:	15619780
Application Number:	15633111
Application Number:	15696641
Application Number:	15707135
Application Number:	15707142
Application Number:	15707148
Application Number:	15707161
Application Number:	15707167
Application Number:	15805223
Application Number:	15810428

Property Type	Number
Application Number:	15810449
Application Number:	15810460
Application Number:	15838898
Application Number:	15957543
Application Number:	15990125
Application Number:	16004766
Application Number:	16123724
Application Number:	16270432
Application Number:	16379374
Application Number:	16390914
Application Number:	16390927
Application Number:	16390952
Application Number:	16413274
Application Number:	16413307
Application Number:	16420428
Application Number:	16421693
Application Number:	16455004
Application Number:	16598025
Application Number:	16599763
Application Number:	16600069
Application Number:	16600209
Application Number:	16698334
Application Number:	16706395
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Application Number:	16850080
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Application Number:	16968933
Application Number:	16968934
Application Number:	16968936
Application Number:	16968937
Application Number:	16968940
Application Number:	16968944
Application Number:	16968945
Application Number:	17008900
Application Number:	17066202

Property Type	Number
Application Number:	17190605

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: iprecordals@cpaglobal.com

Correspondent Name: CPA GLOBAL

Address Line 1: CASTLE HOUSE, LIBERATION STREET, ST HELIER

Address Line 4: JERSEY, UNITED KINGDOM JE1 1BL

NAME OF SUBMITTER:	HELEN BIRRELL	
SIGNATURE:	/H/BIRRELL/IPR/PS/INFINEON/	
DATE SIGNED:	12/30/2021	

Total Attachments: 27

source=Johnson Controls Fire Protection LP to US Holdings; US Holdings to JCI; JCI to JCTIPH#page1.tif source=Johnson Controls Fire Protection LP to US Holdings; US Holdings to JCI; JCI to JCTIPH#page2.tif source=Johnson Controls Fire Protection LP to US Holdings; US Holdings to JCI; JCI to JCTIPH#page3.tif source=Johnson Controls Fire Protection LP to US Holdings; US Holdings to JCI; JCI to JCTIPH#page4.tif source=Johnson Controls Fire Protection LP to US Holdings; US Holdings to JCI; JCI to JCTIPH#page5.tif source=Johnson Controls Fire Protection LP to US Holdings; US Holdings to JCI; JCI to JCTIPH#page6.tif source=Johnson Controls Fire Protection LP to US Holdings; US Holdings to JCI; JCI to JCTIPH#page7.tif source=Johnson Controls Fire Protection LP to US Holdings; US Holdings to JCI; JCI to JCTIPH#page8.tif source=Johnson Controls Fire Protection LP to US Holdings; US Holdings to JCI; JCI to JCTIPH#page9.tif source=Johnson Controls Fire Protection LP to US Holdings; US Holdings to JCI; JCI to JCTIPH#page10.tif source=Johnson Controls Fire Protection LP to US Holdings; US Holdings to JCI; JCI to JCTIPH#page11.tif source=Johnson Controls Fire Protection LP to US Holdings; US Holdings to JCI; JCI to JCTIPH#page12.tif source=Johnson Controls Fire Protection LP to US Holdings; US Holdings to JCI; JCI to JCTIPH#page13.tif source=Johnson Controls Fire Protection LP to US Holdings; US Holdings to JCI; JCI to JCTIPH#page14.tif source=Johnson Controls Fire Protection LP to US Holdings; US Holdings to JCI; JCI to JCTIPH#page15.tif source=Johnson Controls Fire Protection LP to US Holdings; US Holdings to JCI; JCI to JCTIPH#page16.tif source=Johnson Controls Fire Protection LP to US Holdings; US Holdings to JCI; JCI to JCTIPH#page17.tif source=Johnson Controls Fire Protection LP to US Holdings; US Holdings to JCI; JCI to JCTIPH#page18.tif source=Johnson Controls Fire Protection LP to US Holdings; US Holdings to JCI; JCI to JCTIPH#page19.tif source=Johnson Controls Fire Protection LP to US Holdings; US Holdings to JCI; JCI to JCTIPH#page20.tif source=Johnson Controls Fire Protection LP to US Holdings; US Holdings to JCI; JCI to JCTIPH#page21.tif source=Johnson Controls Fire Protection LP to US Holdings; US Holdings to JCI; JCI to JCTIPH#page22.tif source=Johnson Controls Fire Protection LP to US Holdings; US Holdings to JCI; JCI to JCTIPH#page23.tif source=Johnson Controls Fire Protection LP to US Holdings; US Holdings to JCI; JCI to JCTIPH#page24.tif source=Johnson Controls Fire Protection LP to US Holdings; US Holdings to JCI; JCI to JCTIPH#page25.tif source=Johnson Controls Fire Protection LP to US Holdings; US Holdings to JCI; JCI to JCTIPH#page26.tif source=Johnson Controls Fire Protection LP to US Holdings; US Holdings to JCI; JCI to JCTIPH#page27.tif

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 Central Time P.M. (the "Effective Date"), by and among Johnson Controls Fire Protection LP, a Delaware Limited Partnership, located at 6600 Congress Avenue, Boca Raton, Florida 33487 ("Johnson Controls Fire Protection"), Johnson Controls US Holdings LLC, a Delaware Limited Liability Company, located at 5757 N. Green Bay Avenue, Milwaukee, Wisconsin 53209 ("US Holdings"), Johnson Controls, Inc., a Wisconsin Corporation, located at 5757 N. Green Bay Avenue, 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, US Holdings is the purchaser of certain assets of Johnson Controls Fire Protection (the "Transferred Assets") pursuant to the Asset Purchase Agreement between Johnson Controls Fire Protection, on the one hand, and US Holdings, on the other, dated effective as of June 17, 2021 at 5:00 P.M. Central Time (the "Purchase Agreement");

WHEREAS, JCI is the subsequent acquirer of the Transferred Assets from US Holdings pursuant to the Amended and Restated Contribution Agreement between JCI, on the one hand, and US Holdings, on the other, effective as of June 17, 2021 at 5:01 P.M. Central Time (the "JCI Contribution Agreement");

WHEREAS, JCTIPH is the subsequent acquirer of the Transferred Assets from JCI 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 Purchase Agreement, the JCI Contribution Agreement, and the JCTIPH Contribution Agreement, Johnson Controls Fire Protection, US Holdings, and JCI have conveyed, transferred, and assigned certain intellectual property among the Transferred Assets for ultimate 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:

4851-5656-6515.1

1. Assignment from Johnson Controls Fire Protection to US Holdings.

- For good and valuable consideration, the receipt and sufficiency of which (a) are hereby acknowledged, Johnson Controls Fire Protection hereby irrevocably conveys, transfers, and assigns to US Holdings, and US Holdings hereby accepts, all of Johnson Controls Fire Protection' right, title, and interest in and to the following (the "Assigned **IP**"):
 - 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,

PATENT

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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 Purchase Agreement. Johnson Controls Fire Protection and US Holdings acknowledge and agree that this IP Assignment is entered into pursuant to the Purchase Agreement, to which reference is made for a further statement of the rights and obligations of Johnson Controls Fire Protection and US Holdings with respect to the Assigned IP. The representations, warranties, covenants, agreements, and indemnities contained in the Purchase 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 Purchase Agreement and the terms hereof, the terms of the Purchase Agreement shall govern.

2. <u>Assignment from US Holdings to JCI</u>.

- (a) Subsequent to the assignment set forth in Section 1 and for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, US Holdings hereby irrevocably conveys, transfers, and assigns to JCI, and JCI hereby accepts, all of US Holdings' right, title, and interest in and to the Assigned IP.
- (b) Terms of the JCI Contribution Agreement. US Holdings and JCI acknowledge and agree that this IP Assignment is entered into pursuant to the JCI Contribution Agreement, to which reference is made for a further statement of the rights and obligations of US Holdings and JCI with respect to the Assigned IP. The representations, warranties, covenants, agreements, and indemnities contained in the JCI 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 JCI Contribution Agreement and the terms hereof, the terms of the JCI Contribution Agreement shall govern.

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

- (a) Subsequent to the assignment set forth in Section 2 and 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 Assigned IP.
- (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.
- 4. <u>Recordation and Further Actions</u>. 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.
- 5. <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.
- 6. <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.
- 7. Governing Law. This IP Assignment shall be construed and interpreted according to the laws of the State of Wisconsin, 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 Fire Protection LP	Johnson Controls US Holdings LLC
By Transfer	By
Name: Tracy Long	Name: Marc Vandiepenbeeck
Title: President	Title: Manager
Johnson Controls, Inc.	Johnson Controls Tyco IP Holdings LLP
By	By
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 Fire Protection LP	Johnson Controls US Holdings LLC
Ву	By Z MM
Name: Tracy Long	Name: Marc Vandiepenbeeck
Title: President	Title: Manager
	(
Johnson Controls, Inc.	Johnson Controls Tyco IP Holdings LLP
	$A \setminus A AA$
Ву	By C
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 Fire Protection LP	Johnson Controls US Holdings LLC
Ву	By
Name: Tracy Long	Name: Marc Vandiepenbeeck
Title: President	Title: Manager
Johnson Controls, Inc.	Johnson Controls Tyco IP Holdings LLP
By	By
Name: Richard Dancy	Name: Marc Vandiepenbeeck
Title: Vice President	Title: President

SCHEDULE 1

ASSIGNED PATENTS

Patents

[See Exhibit B]

4851-5656-6515.1

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US1116;	Johnson Controls Fire Protection LP	Fire Detection System With Distributed File System		201802832	Published	C
US1116;	Johnson Controls Fire Protection LP	Fire Detection System With Automatic Firmware Updating		201802817	Published	5
US1116;	Johnson Controls Fire Protection LP	Gunshot Detection System with Encrypted, Wireless Transmission		3091894	Pending	CA
US1116;	Johnson Controls Fire Protection LP	Gunshot Detection System with Building Management System Integration		3091552	Published	CA
US1116;	Johnson Controls Fire Protection LP	Gunshot Detection System with Location Tracking		3091332	Published	CA
US1116;	Johnson Controls Fire Protection LP	Gunshot Detection Sensors Incorporated into Building Johnson Controls Fire Protection LP Management Devices		3091330	Published	Ş
US1116;	Johnson Controls Fire Protection LP	Gunshot Detection System with Fire Alarm System Integration		3091328	Published	CA
US1116;	Johnson Controls Fire Protection LP	Gunshot Detection System with Ambient Noise Modeling and Monitoring		3091327	Published	ξ
US1116;	Johnson Controls Fire Protection LP	Gunshot Detection System Anti-Tampering Protection		3091318	Published	CA
US1116;	Johnson Controls Fire Protection LP	Fire Detection System With Distributed File System		301830	Published	CA
US1116;	Johnson Controls Fire Protection LP	Fire Detection System With Automatic Firmware Updating		3018298	Published	ÇA
US1116;	Johnson Controls Fire Protection LP	Fire Detection System With Distributed File System		BR112018070930-1	Published	BR
US1116;	Johnson Controls Fire Protection LP	Fire detection system with automatic firmware update		BR112018070911-5	Published	BR
US1116;	Johnson Controls Fire Protection LP	Power Supply Ripple Detector		2018271365	Published	ΑU
US1116;	Johnson Controls Fire Protection LP	Chamberless Smoke Detector		2018226504	Published	ΑU
US1116;	Johnson Controls Fire Protection LP	Smoke Detector Remote Test Apparatus	2017342054	2017342054	Published	٥
US1116;	Johnson Controls Fire Protection LP	System And Method For Providing Temporary Power To Intermittent Units		2017264912	Published	ΑU
US1116;	Johnson Controls Fire Protection LP	Fire Detection System With Distributed File System		2017250617	Published	ΑU
US1116;	Johnson Controls Fire Protection LP	Fire Detection System With Automatic Firmware Updating		2017250616	Published	ΑU
US1116;	Johnson Controls Fire Protection LP	Smoke Detector Tester		2016335360	Published	ΑU
US1116;	Johnson Controls Fire Protection LP	Unknown Title		201713029	Pending	٥
US1116;	Johnson Controls Fire Protection LP	Unknown Title		201713028	Pending	ΑU
US1116;	Johnson Controls Fire Protection LP	Unknown Title		201713026	Pending	Ċ
US1116;	Johnson Controls Fire Protection LP	Design of a Detector Base with Sounder/Visual Indicator/Visual Alarm	4912	D6000316/2017	Issued	AE
US1116;	Johnson Controls Fire Protection LP	Design of a Detector Base with Sounder/Visual Indicator/Visual Alarm	4917	D6000315/2017	Issued	AE
US1116;	Johnson Controls Fire Protection LP	Base Sounder	4916	D6000314/2017	Issued	AE
DE1026;US1116	ADT Deutschland GmbH, Johnson Controls Fire Protection LP	System And Method For Monitoring Usage And Predicting Failure Of Visual Notification Appliances	8797157	13/173032	Issued	SN

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US1116;	Johnson Controls Fire Protection LP	CHAMBERLESS SMOKE DETECTOR	EP3454311	17190223.2	Issued	R
US1116;	Johnson Controls Fire Protection LP	Smoke Detector Tester	EP3359303	16781178.5	Issued	R
US1116;	Johnson Controls Fire Protection LP	SYSTEM AND METHOD FOR PROVIDING SUPPLEMENTAL POWER TO UNITS	EP3151208 B1	16183884.2	Issued	FR
US1116;	Johnson Controls Fire Protection LP	Fire Detection System With Distributed File System	3443455	17719345.5	Issued	Ξ
US1116;	Johnson Controls Fire Protection LP	Unsupervised Enrollment for Anti-Theft Facial Recognition System		20747501.3	Pending	F
US1116;	Johnson Controls Fire Protection LP	Gunshot Detection System with Fire Alarm System Integration		19711420.0	Published	Ð
US1116;	Johnson Controls Fire Protection LP	Gunshot Detection System with Ambient Noise Modeling and Monitoring		19711419.2	Published	EP
US1116;	Johnson Controls Fire Protection LP	Gunshot Detection System Anti-Tampering Protection Johnson Controls Fire Protection LP		19711418.4	Published	Ŧ
US1116;	Johnson Controls Fire Protection LP	Gunshot Detection Sensors Incorporated into Building Johnson Controls Fire Protection LP Management Devices		19711168.5	Published	F
US1116;	Johnson Controls Fire Protection LP	Gunshot Detection System with Encrypted, Wireless Transmission		19711167.7	Published	F
US1116;	Johnson Controls Fire Protection LP	Gunshot Detection System with Location Tracking		19710786.5	Published	ΕP
US1116;	Johnson Controls Fire Protection LP	Gunshot Detection System with Building Management System Integration		19710785.7	Published	Ŧ
US1116;	Johnson Controls Fire Protection LP	Systems And Methods Of Alarm Controls And Directed Audio Evacuation		19176903.3	Published	FP
US1116;	Johnson Controls Fire Protection LP	Power Supply Ripple Detector		18209988.7	Published	Ŧ
US1116;	Johnson Controls Fire Protection LP	Smoke Detector Remote Test Apparatus		17791312.6	Published	Ŧ
US1116;	Johnson Controls Fire Protection LP	Fire Detection System With Distributed File System	3443455	17719345.5	Issued	Ŧ
US1116;	Johnson Controls Fire Protection LP	Fire Detection System With Automatic Firmware Updating		17717877.9	Published	FP
US1116;	Johnson Controls Fire Protection LP	CHAMBERLESS SMOKE DETECTOR	EP3454311	17190223.2	Issued	₽
US1116;	Johnson Controls Fire Protection LP	SYSTEM AND METHOD FOR PROVIDING SUPPLEMENTAL POWER TO UNITS	EP3151208 B1	16183884.2	Issued	F
US1116;	Johnson Controls Fire Protection LP	Testing System And Method For Fire Alarm System		15701255.0	Published	₽
US1116;	Johnson Controls Fire Protection LP	Unknown Title	003493139-0003	003493139-0003	Issued	Z
US1116;	Johnson Controls Fire Protection LP	Unknown Title	003493139-0002	003493139-0002	Issued	Z
US1116;	Johnson Controls Fire Protection LP	Unknown Title	003493139-0001	003493139-0001	Issued	Z
US1116;	Johnson Controls Fire Protection LP	Fire Detection System With Distributed File System	3443455	17719345.5	Issued	DE
US1116;	Johnson Controls Fire Protection LP	CHAMBERLESS SMOKE DETECTOR	60 2017 017 903.5	17190223.2	Issued	DE
US1116;	Johnson Controls Fire Protection LP	Smoke Detector Tester	60 2016 037 575.3	16781178.5	Issued	유
US1116;	Johnson Controls Fire Protection LP	SYSTEM AND METHOD FOR PROVIDING SUPPLEMENTAL POWER TO UNITS	EP3151208 B1	16183884.2	Issued	DE
US1116;	Johnson Controls Fire Protection LP	The fire detection system updated with automated firmware		201780022948.9	Published	CN

	Mothod And Crotom				
Johnson Controls Fire Protection LP	Contextual Fire Detection And Alarm Verification	10388146	15/805223	Issued	SU
Johnson Controls Fire Protection LP	Software Defined Battery Charger System And Method	10663501	15/696641	Issued	S
Johnson Controls Fire Protection LP	: Hardwire Fire Alarm Panel Walktest Decoder	10607477	15/633111	Issued	SU
Johnson Controls Fire Protection LP	System And Method For Testing Emergency Address Systems Using Voice Recognition	10390160	15/619780	Issued	S
Johnson Controls Fire Protection LP	Security Panel Gateway System And Method	10616181	15/617678	Issued	S
Johnson Controls Fire Protection LP	Fire Alarm Inspection Application And User Interface	10216164	15/600509	Issued	SN
Johnson Controls Fire Protection LP	Building Management System Method and Interface		15/446289	Published	S
Johnson Controls Fire Protection LP	Building Asset Management System		15/446256	Published	S
Johnson Controls Fire Protection LP	Testing System And Method For Fire Alarm System	9990841	15/378363	Issued	SO
Johnson Controls Fire Protection LP	Addressing Method For Slave Units In Fire Detection System	10453320	15/095697	Issued	SN
Johnson Controls Fire Protection LP	Fire Detection System With Distributed File System	10860541	15/095691	Issued	S
Johnson Controls Fire Protection LP	Fire Detection System With Automatic Firmware Updating		15/095680	Published	Sn
Johnson Cont	Mesh Network Testing System And Method For Fire Alarm System	10074265	15/088533	Issued	S
Johnson Controls Fire Protection LP	Strobe Notification Appliance With Directional Information	9922509	15/004420	Issued	SU
Johnson Controls Fire Protection LP	Interface Actuator Device And Method Of Use		14/988949	Published	SN
y Johnson Controls Fire Protection LP	Fire/Security Service System With Augmented Reality	10297129	14/863674	Issued	S
Johnson Controls Fire Protection LP	System And Method For Smoke Detector Performance Analysis	10339793	14/814805	Issued	SN
Johnson Cont	Adapter Bracket For Notification Appliance	10121343	14/514120	Issued	S
Johnson Cont	Combustion Product Detection		14/364080	Published	SN
Johnson Cont	System And Method For Testing Battery Backup Capacities In Alarm Systems	9361785	14/173485	Issued	SN
Johnson Controls Fire Protection LP	Testing System And Method For Fire Alarm System	9552720	14/157847	Issued	Sn
Johnson Controls Fire Protection LP	Smoke Detector with Airflow Barrier	9058731	14/047938	Issued	SU
Johnson Controls Fire Protection LP	Safety System	9391714	13/877312	Issued	SU
Johnson Controls Fire Protection LP	:Mounting Unit	9343884	13/877038	Issued	SU
Johnson Controls Fire Protection LP	SPRINKLER DROP RULER	8601700	13/325724	Issued	SU
w Johnson Cont	System And Method For Emergency Message Preview And Transmission		13/207140	Published	S
Johnson Cont	AUTOMATIC CONFIGURATION OF INITIATING DEVICES	8773254	13/193322	Issued	SN
Johnson Controls Fire Protection LP	FIRE GAS DETECTOR-CODING	8198997	12/568423	Issued	SN
	REDUCED OPERATING VOLTAGE	8063763	1		
Johnson Controls Fire Protection LP	SYSTEM FOR TESTING NAC OPERABILITY USING		12/277790	Issued	SUS
Johnson Controls Fire Protection LP	:SMOKE DETECTOR	:7940190	11/884291	Issued	SU

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Systems and Methods for Controlling Addressable Combined Initiating Device and Notification Applianc	Software Defined Battery Charger System And Method	Emergency Notification System and Method	Erratic Short-Circuit Detection	Method And System For Configuring An Alarm Syster	Lithium Battery Passivation Detection	Lithium Battery Activation and Long-Term Maintenance	Thermistor Housing	Adapter Bracket For Notification Appliance	System And Method For Identifying And Locating Sensed Events	Location-Aware Provisioning System For Fire Alarm System And Method Therefor	Heads Up Mass Notification	Apparatus And Method For Addressing A Device	Systems And Methods Of Alarm Controls And Directed Audio Evacuation	Fault Isolation Locality	Abnormal Impedance Fault Isolation	Systems and Methods for Echo Management in Conferencing Over a Network Using Multiplexed Mixed Multicast.	Systems And Methods For Echo Management In Conferencing Over A Network Using Multiplexed Multicast.	Systems And Methods For Echo Management In Conferencing Over A Network Using Mixed Multicast	Cloud-Based Fire Protection System and Method	Smoke Detector Remote Test Apparatus	System And Method For Extracting Information From A Non-Planar Surface	Fire Alarm Inspection Application And User Interface	Chamberless Smoke Detector	System and Method for Charging Supplemental Power Units for Alarm Notification Devices	Method And System For Monitoring Fire Alarm Systems	STROBE NOTIFICATION APPLIANCE AND EMERGENCY LIGHTING APPLIANCE WITH DIRECTIONAL INFORMATION	Power Supply Ripple Detector	ппе
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US1116;	Johnson Controls Fire Protection LP	A FIRE DETECTION SYSTEM USING A DRONE)52638	PCT/EP2017/052638	Published	Wo
US1116;	Johnson Controls Fire Protection LP	stem with Location Tracking	0	IB2019/051210	Published	VO
US1116;	Johnson Controls Fire Protection LP	Gunshot Detection Sensors Incorporated into Building. Management Devices	ō	IB2019/051209	Published	Wo
US1116;	Johnson Controls Fire Protection LP	Gunshot Detection System with Fire Alarm System Integration		IB2019/051208	Published	Wo
US1116;	Johnson Controls Fire Protection LP	ļ	7	IB2019/051207	Published	Wo
US1116;	Johnson Controls Fire Protection LP	Gunshot Detection System Anti-Tampering Protection	Ō	IB2019/051206	Published	WO
US1116;	Johnson Controls Fire Protection LP	Gunshot Detection System with Building Management System Integration	Ū	IB2019/051205	Published	W _O
US1116;	Johnson Controls Fire Protection LP	m with Encrypted, Wireless	4	IB2019/051204	Published	Wo
US1116;	Johnson Controls Fire Protection LP	Smoke Detector Addressing Using Optical Interfacing And An Address Pennant		63/138137	Pending	S
US1116;	Johnson Controls Fire Protection LP	Spring Bracket		63/088780	Pending	SN
US1116;	Johnson Controls Fire Protection LP	Motion Sensor		29/704574	Pending	S
US1116;	Johnson Controls Fire Protection LP	Visual Alarm For Alarm Unit	:D830213	29/626314	Issued	SO
US1116;	Johnson Controls Fire Protection LP	Alarm Unit	D827472	29/626311	Issued	SU
US1116;	Johnson Controls Fire Protection LP	Unsupervised Enrollment for Anti-Theft Facial Recognition System		17/287421	Pending	SU
US1116;	Johnson Controls Fire Protection LP			17/190605	Pending	US
US1116;	Johnson Controls Fire Protection LP	Characterization of Reverberation of Audible Spaces		17/129405	Pending	S
US1116;	Johnson Controls Fire Protection LP	QR Code Proximity Testing		17/066202	Published	S
US1116;	Johnson Controls Fire Protection LP	Motion Detector With Adjustable Pattern Direction		17/008900	Published	SO
US1116;	Johnson Controls Fire Protection LP	/stem with Location Tracking		16/968945	Published	SN
US1116;	Johnson Controls Fire Protection LP	Gunshot Detection Sensors Incorporated into Building Johnson Controls Fire Protection LP Management Devices		16/968944	Published	S
US1116;	Johnson Controls Fire Protection LP	Gunshot Detection System with Fire Alarm System Integration		16/968940	Published	S
US1116;	Johnson Controls Fire Protection LP	Gunshot Detection System with Ambient Noise Modeling and Monitoring		16/968937	Published	SN
US1116;	Johnson Controls Fire Protection LP	Gunshot Detection System Anti-Tampering Protection		16/968936	Published	SU
US1116;	Johnson Controls Fire Protection LP	Gunshot Detection System with Building Management System Integration		16/968934	Pending	S
US1116;	Johnson Controls Fire Protection LP	Gunshot Detection System with Encrypted, Wireless Transmission		16/968933	Published	US
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Y STATUS APLN # PATENT # TITLE ASSIGNEE (Johnson Controls Fire Protection LP) Published PCT/IB2016/050026 FIRE SENSOR HAVING A SENSOR GUARD FOR HEAT AND SMOKE DETECTION APPLICATIONS Johnson Controls Fire Protection LP Published PCT/IB2017/050249 Location-Aware Provisioning System For Fire Alarm And Method Therefor Johnson Controls Fire Protection LP Published PCT/IB2018/052404 System And Method For Identifying And Locating Sensed Events Johnson Controls Fire Protection LP Published PCT/US2019/020970 Lithium Battery Passivation Detection Johnson Controls Fire Protection LP Published PCT/US2019/020978 Lithium Battery Passivation and Long-Term Johnson Controls Fire Protection LP Published PCT/US2019/020978 Lithium Battery Passivation Detection, Activation and Johnson Controls Fire Protection LP Published PCT/US2019/020978 Lithium Battery Passivation Detection, Activation and Johnson Controls Fire Protection LP Published PCT/US2019/020978 Lithium Battery Passivation Detection, Activation and Johnson Controls Fire Protection LP	US1116;	Johnson Controls Fire Protection LP	Capacitive Switch Detector Addressing		PCT/US2019/029174	Published	Wo
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Y STATUS APLN # PATENT # TITLE ASSIGNEE (Johnson Controls Fire Protection LP) Published PCT/IB2016/050026 FIRE SENSOR HAVING A SENSOR GUARD FOR HEAT AND SMOKE DETECTION APPLICATIONS Johnson Controls Fire Protection LP Published PCT/IB2017/050249 Location-Aware Provisioning System For Fire Alarm And Method Therefor Johnson Controls Fire Protection LP Published PCT/IB2018/052404 System And Method For Identifying And Locating Sensed Eyents Johnson Controls Fire Protection LP Published PCT/US2019/020970 Lithium Battery Passivation and Long-Term Johnson Controls Fire Protection LP Maintenance Maintenance Johnson Controls Fire Protection LP	US1116;				PCT/US2019/020978	Published	WO
Y STATUS APIN# PATENT# TITLE ASSIGNEE (Johnson Controls Fire Protection LP) Published PCT/IB2016/050026 FIRE SENSOR HAVING A SENSOR GUARD FOR HEAT AND SMOKE DETECTION APPLICATIONS Johnson Controls Fire Protection LP Published PCT/IB2017/050249 Location-Aware Provisioning System For Fire Alarm System And Method Therefor. Johnson Controls Fire Protection LP Published PCT/IB2018/052404 System And Method For Identifying And Locating Sensed Events Johnson Controls Fire Protection LP Published PCT/US2019/020961 Lithium Battery Passivation Detection Johnson Controls Fire Protection LP	US1116;				PCT/US2019/020970	Published	Wo
Y STATUS APLN# PATENT# TITLE ASSIGNEE (Johnson Controls Fire Protection LP) Published PCT/IB2016/050026 FIRE SENSOR HAVING A SENSOR GUARD FOR HEAT Johnson Controls Fire Protection LP Published PCT/IB2017/050249 Location-Aware Provisioning System For Fire Alarm Johnson Controls Fire Protection LP Published PCT/IB2018/052404 System And Method For Identifying And Locating Johnson Controls Fire Protection LP Sensed Events Sensed Events	US1116;		Lithium Battery Passivation Detection		PCT/US2019/020961	Published	Wo
Y STATUS APLN# PATENT# HITLE ASSIGNEE (Johnson Controls Fire Protection LP) Published PCT/IB2016/050026 FIRE SENSOR HAVING A SENSOR GUARD FOR HEAT Johnson Controls Fire Protection LP AND SMOKE DETECTION APPLICATIONS Published PCT/IB2017/050249 Location-Aware Provisioning System For Fire Alarm Johnson Controls Fire Protection LP System And Method Therefor	US1116;		Locating		PCT/IB2018/052404	Published	Wo
Y STATUS APLN# PATENT# HITLE ASSIGNEE (Johnson Controls Fire Protection LP) Published PCT/IB2016/050026 FIRE SENSOR HAVING A SENSOR GUARD FOR HEAT Johnson Controls Fire Protection LP AND SMOKE DETECTION APPLICATIONS	US1116;		r Fire Alarm		PCT/IB2017/050249	Published	Ψo
STATUS APLN# PATENT# TITLE ASSIGNEE (Johnson Controls Fire Protection LP)	US1116;	Johnson Controls Fire Protection LP) FOR HEAT		PCT/IB2016/050026	Published	Wo
	ENTITY ID	nson Controls Fire Protection LP)		PATENT#	APLN#	STATUS	CTRY

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GB1048;US1116	Thorn Security Limited, Johnson Controls Fire Protection P	Fire detector drift compensation	GB2537940	1507574.0	Issued	GB
GB1048;US1116	Thorn Security Limited, Johnson Controls Fire Protection LP	Alarm Panel	2520335	1320344.3	Issued	GB
	Protection LP	controls data routing between sub-systems				
GB1048;US1116	Thorn Security Limited, Johnson Controls Fire	Distributed fire detection system interface that		1217970.1	Published	GB
GB1048;US1116	Thorn Security Limited, Johnson Controls Fire	Fire Detector Unit	2487560	1101360.4	Issued	GB
GB1048;US1116	Thorn Security Limited, Johnson Controls Fire Protection LP	FIRE DETECTOR DRIFT COMPENSATION	EP3289574	16721881.7	Issued	R
GB1048;US1116	Thorn Security Limited, Johnson Controls Fire Protection LP	AN ELECTRICAL CIRCUIT, A DETECTION SYSTEM AND AN OPERATING METHOD THEREOF	1867039	06702888.6	Issued	R
GB1048;US1116	Thorn Security Limited, Johnson Controls Fire Protection LP	Detection Arrangements	1851857	05818457.3	Issued	Ŧ
GB1048;US1116	Thorn Security Limited, Johnson Controls Fire Protection LP	Testing A Fire Detector Sensor	1743308	05737836.6	Issued	æ
GB1048;US1116	Thorn Security Limited, Johnson Controls Fire Protection LP	FIRE DETECTOR DRIFT COMPENSATION	EP3289574	16721881.7	Issued	₽
GB1048;US1116	Thorn Security Limited, Johnson Controls Fire Protection LP	AN ELECTRICAL CIRCUIT, A DETECTION SYSTEM AND AN OPERATING METHOD THEREOF	1867039	06702888.6	Issued	Ŧ
GB1048;US1116	Thorn Security Limited, Johnson Controls Fire Protection LP	DETECTION ARRANGEMENTS	1851857	05818457.3	Issued	Ŧ
GB1048;US1116	Thorn Security Limited, Johnson Controls Fire Protection LP	TESTING A FIRE DETECTOR SENSOR	1743308	05737836.6	Issued	₽
GB1048;US1116	Thorn Security Limited, Johnson Controls Fire Protection LP	A FIRE DETECTOR	1350235	02726997.6	Issued	Ŧ
GB1048;US1116	Thorn Security Limited, Johnson Controls Fire Protection LP	PARTICULATE DETECTOR	60 2009 050 008.2	DE200960050008T	Issued	Œ
GB1048;US1116	Thorn Security Limited, Johnson Controls Fire Protection LP	FIRE DETECTOR DRIFT COMPENSATION	EP3289574	16721881.7	Issued	Æ
GB1048;US1116	Thorn Security Limited, Johnson Controls Fire Protection LP	AN ELECTRICAL CIRCUIT, A DETECTION SYSTEM AND AN OPERATING METHOD THEREOF	1867039	06702888.6	Issued	DE
GB1048;US1116	Thorn Security Limited, Johnson Controls Fire Protection LP	Detection Arrangements	1851857	05818457.3	Issued	DE
GB1048;US1116	Thorn Security Limited, Johnson Controls Fire Protection LP	Testing A Fire Detector Sensor	602005015098.6-08	05737836.6	Issued	R
GB1048;US1116	Thorn Security Limited, Johnson Controls Fire Protection LP	A FIRE DETECTOR	60202258	02726997.6	Issued	DE
GB1048;US1116	Thorn Security Limited, Johnson Controls Fire Protection LP	Detection Arrangements	1851857	05818457.3	Issued	오
GB1048;US1116	Thorn Security Limited, Johnson Controls Fire Protection LP	Testing A Fire Detector Sensor	1743308	05737836.6	Issued	9
GB1048;US1116	Thorn Security Limited, Johnson Controls Fire Protection LP	A FIRE DETECTOR	1350235	02726997.6	Issued	요
GB1048;US1116	Thorn Security Limited, Johnson Controls Fire Protection LP	Fire Detector Drift Compensation	2016259176	2016259176	Issued	AU
GB1048;US1116	Thorn Security Limited, Johnson Controls Fire Protection LP	Unknown Title	2015101024	2015101024	Issued	AU
GB1048;US1116	Thorn Security Limited, Johnson Controls Fire Protection LP	A Particulate Detector	2009299563	2009299563	Issued	AU
ENTITY ID	ASSIGNEE (Jannson Contrais Fire Protection LP)		741021#	27574	;	2

CH1014;US1116	Tyco Fire & Security GmbH. Johnson Controls Fire	Commont Dogulated and Stroke Drive Circuit	3013377716	3013377716	-	
CH1014;US1116	eurity GmbH, Johnson Controls Fire	Led Strobes With Fixed Pulse Width	2013274534	2013274534	Published	ΑU
CH1014;US1116	eurity GmbH, Johnson Controls Fire	Combustion product detection	2013220147	2013220147	Issued	ΑU
CH1014;US1116	eurity GmbH, Johnson Controls Fire	Detector System	2011311361	2011311361	Issued	ΑU
CH1014;US1116	curity GmbH, Johnson Controls Fire	Isolator Circuit	2011311360	2011311360	Issued	ΑU
CH1014;US1116	eurity GmbH, Johnson Controls Fire	Safety System	201131	2011311359	Issued	ΑU
CH1014;US1116	curity GmbH, Johnson Controls Fire	A flame detector and a method	2006251047	2006251047	Issued	ΑU
CH1014;US1116	curity GmbH, Johnson Controls Fire	Detector	2006251046	2006251046	Issued	ΑU
CH1014;US1116	curity GmbH, Johnson Controls Fire	Detection arrangements	2005328223	2005328223	Issued	ΑU
CH1014;US1116	curity GmbH, Johnson Controls Fire		2005239104	2005239104	Issued	ΑU
CH1014;US1116	curity GmbH, Johnson Controls Fire	System And Method For Synchronization Of Networked Fire Alarm Panels		P344/14	Pending	ΑE
CH1014;US1116	eurity GmbH, Johnson Controls Fire	Unknown Title		D243/15	Pending	AE
GB1048;US1116	y Limited, Johnson Controls Fire	FIRE DETECTOR DRIFT COMPENSATION		PCT/GB2016/051249	Published	Wo
GB1048;US1116	y Limited, Johnson Controls Fire	ALARM PANEL		PCT/GB2014/053396	Published	Ψo
GB1048;US1116	Thorn Security Limited, Johnson Controls Fire Protection LP	im	10614705	15/810460	Issued	S
GB1048;US1116	Thorn Security Limited, Johnson Controls Fire Protection LP	Detector System	10713938	15/810449	Issued	S
GB1048;US1116	Thorn Security Limited, Johnson Controls Fire Protection LP	Smoke Detector Tester	10783771	15/765324	Issued	S
GB1048;US1116	Thorn Security Limited, Johnson Controls Fire Protection LP	Fire Detector Drift Compensation	10204508	15/570804	Issued	S
GB1048;US1116	Thorn Security Limited, Johnson Controls Fire Protection LP		10163310	15/037085	Issued	S
GB1048;US1116	Thorn Security Limited, Johnson Controls Fire Protection LP	Interface Circuit For Distributed Fire Alarm In Loop Configuration F	9514635	14/432703	Issued	SN
GB1048;US1116	Thorn Security Limited, Johnson Controls Fire Protection LP	vironmental sensor	7633386	11/886611	Issued	S
GB1048;US1116	Thorn Security Limited, Johnson Controls Fire Protection LP	AN OPERATING METHOD THEREOF	1867039	06702888.6	Issued	GB
GB1048;US1116	Thorn Security Limited, Johnson Controls Fire Protection LP	<u> </u>	1851857	05818457.3	Issued	GB
GB1048;US1116	Thorn Security Limited, Johnson Controls Fire Protection LP	Testing A Fire Detector Sensor	1743308	05737836.6	Issued	GB
GB1048;US1116	Thorn Security Limited, Johnson Controls Fire Protection LP	A FIRE DETECTOR	1350235	02726997.6	Issued	GB

		Protection LP	Systems				
ADJUSTICATION PATENTIAL Control Free Count for Distributed Fire Alarm in Loop Voca Free & Security Control Free Voca Free & Security Control Control Free Voca Fre	CH1014;US1116	curity GmbH, Johnson Controls Fire	Appliances In Alarm	2973480	14729097.7	Issued	Œ
ADJUSTAGE TO DISTAGE THE CITCUIT FOR Distributed Fire Alarm in LOD TOP	CH1014;US1116	curity GmbH, Johnson Controls Fire	5	2014 074 812.	14714907.4	Issued	DE
APILLAR ANSIGNEE Deliment Controls Fire Protection LP 2013228023 2013228023 2013228023 2013228023 2013220391 2013220391 2013200391 2013200391 2013200392 2013220392 201320392 2013220392 2013220392 2013220392 2013220392 2013220392 2013220392 2013220392 2013220392 2013220392 2013220392 2013220392 2013220392 2013220392 2013220392 2013220392 2013220393 2013220392	CH1014;US1116	curity GmbH, Johnson Controls Fire		EP2879105 B1	14195284.6	Issued	DE.
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APAN SIGNEE (Johnson Controls Fire Potential Propertion Leg 2013338423 201328423 Interface Circuit For Distributed Fire Alarm in Loop Tryto Fire & Security GmbH, Johnson Controls Fire Potential Leg 2013200391 2013200391 Detector system Propertion Leg 2013200392 2013200391 Detector system Propertion Leg 2013200392 2013221823 Detector system Propertion Leg 2013200392 2013221823 Method and apparatus for testing fire alarm initiating Tryto Fire & Security GmbH, Johnson Controls Fire Propertion Leg 2013200392 2013221823 Method and apparatus for testing fire alarm initiating Tryto Fire & Security GmbH, Johnson Controls Fire Propertion Leg 201320385 System And Weathod For Providing Supplemental Propertion Leg 20132385 System And Weathod For Providing Supplemental Propertion Leg 20132385 Power control circuit Propertion Leg 20132385 Power Control Detector System with Forensic Data Propertion Leg 20132385 Power Control Detector System with Forensic Data Propertion Leg 20132385 State Propertion Leg 20132385 P	CHIU14;USILIB	eurity GmbH, Jonnson Controls Fire		938.	13706679.1	Issued	יו ה
ARIAN PATENTS 2013328423 201328423 201328423 201328423 201328423 201328423 201328423 201328423 201328423 201322856 2013202156 2013202156 2013202156 2013202156 2013202156 2013202156 2013202151 2013202151 2013202151 2013202151 2013202151 2013202152 2013202152 2013202152 2013202152 201320212 2013202122 2013202122 2013202122 2013202122 201320212 2013202122 201320212	CH1014;US1116	curity GmbH, Johnson Controls Fire	System And Method For Backup Communication Using Power Over Ethernet		12813151.3	Issued	7 -
APLIN # PATENT # IIILE 2013328423 Interface Circuit For Distributed Fire Alarm in Loop 201402156 2014202156 2014202156 System And whethod for Using Customer Data 201402156 System And whethod for Using Customer Data 2015200391 2015200391 Detector System 2015200392 Data Detector System 2015200392 Data Detector System 2015200393 Data Detector System And Niethod For Providing Supplemental Data Data Data Data Data Data Data D	CH1014;US1116	curity GmbH, Johnson Controls Fire		2721590	12730075.4	Issued	Ž E
APIN# PATEM # 2013328423 D013328423 Control for Distributed Fire Alarm in Loap 201402166 2014202166 System And Method for Using Customer Data Protection IP 201402166 2014202166 System And Method for Using Customer Data Protection IP 201500391 2015200391 Detector System 2015200392 Detector System With Foreign Supplemental 2015200392 Detector System With Foreign Supplemental 2015200392 Detector System With Foreign Detector Detector Detector System With Foreign Detector Detector Detector Detector System With Master Slave Timing 2015200392 Detector Detector System With Master Slave Timing 2015200392 Detector Detector Detector System With Master Slave Timing 2015200392 Detector Detector Detector System With Master Slave Timing 2015200392 Detector D	CH1014;US1116	curity GmbH, Johnson Controls Fire		34512.	11788548.3	Issued	DE
APIN# PATENT# TITLE ASSIGNEE (Johnson Controls Fire Protection LP) 2013328423 2013328423 Interface Curcuit For Distributed Fire Alarm in Loop Protection LP Protection LP 2014202166 2014202166 System And Webb of For Using Customer Data Protection LP Protection LP 2014202166 2014202165 Protection LP Protection	CH1014;US1116	curity GmbH, Johnson Controls Fire		60 2011 059 876.7	11785048.7	Issued	DE
ARINH# PATENT # 2013328423 201328423 interface Circuit For Distributed Fire Alarm in Loop PO1328423 201328423 201328423 interface Circuit For Distributed Fire Alarm in Loop Protection LP Protection	CH1014;US1116	curity GmbH, Johnson Controls Fire		25677	11784733.5	Issued	DE
ARIN# PATENT* ITTLE 2013328423 2013328423 2013328423 2013228423 2013228423 2014202166 2014202166 2014202166 2014202166 2014202166 2014202166 2014202166 2014202166 2015200391 2015200391 2015200391 2015200392 2015200392 2015201823 2015221823 2015213785 201521378	CH1014;US1116	curity GmbH, Johnson Controls Fire	2-WIRE	2008 029	08850142.4	Issued	DE
APIN# PATENT# TITLE ASSIGNEE (Johnson Controls Fire Protection, LP) 2013238423 2013238423 Interface Circuit For Distributed Fire Alarm in Loop Cyclo Fire & Security GmbH, Johnson Controls Fire Protection, LP Cyclo Fire & Security GmbH, Johnson Controls Fire 2015200391 2015200391 Detector System System System System System Fire alarm initiating Tyco Fire & Security GmbH, Johnson Controls Fire 2015200392 AU 2015200392 Detector System Fire alarm initiating Tyco Fire & Security GmbH, Johnson Controls Fire 201521823 Strobe Notification Appliance Protection, LP Tyco Fire & Security GmbH, Johnson Controls Fire 201521823 System And Method For Providing Supplemental Protection, LP Tyco Fire & Security GmbH, Johnson Controls Fire 201521878 System And Method For Providing Supplemental Protection, LP Tyco Fire & Security GmbH, Johnson Controls Fire 201521878 System And Method For Providing Supplemental Protection, LP Tyco Fire & Security GmbH, Johnson Controls Fire 201520011843F AU 361708 Notification Appliance Protection, LP Tyco Fire & Security GmbH, Johnson Controls Fire 201520011843F Au 361708 Notification Appliance Protection, LP Tyco Fire & Security GmbH, Johnson Controls Fire 201520011843F Au 361708 Notification Appliance Protection, LP Tyco Fire & Security GmbH, Johnson Controls Fire 201520011843F Au 361708 Notification Appliance Protection, LP Tyco Fire & Security GmbH, Johnson Controls Fire 201520011843F Au 361708 Notification Appliance Protection, LP Tyco Fire & Security GmbH, Johnson Controls Fire 201520011843F Au 361708 Notification System with Master Slave Timing Protection, LP Pro	CH1014;US1116	curity GmbH, Johnson Controls Fire		2109759	07824656.8	Issued	DE
APIN# PATENT # ITTLE ASSIGNEE (Johnson Controls Fire Alarm In Loop) ASSIGNEE (Johnson Controls Fire Alarm In Loop) ASSIGNEE (Johnson Controls Fire Alarm In Loop) Tyco Fire & Security GmbH, Johnson Controls Fire Alarm In Loop Tyco Fire & Security GmbH, Johnson Controls Fire Alarm In Loop Tyco Fire & Security GmbH, Johnson Controls Fire Alarm Systems Tyco Fire & Security GmbH, Johnson Controls Fire Alarm Systems Tyco Fire & Security GmbH, Johnson Controls Fire Alarm Systems Tyco Fire & Security GmbH, Johnson Controls Fire Alarm Systems Tyco Fire & Security GmbH, Johnson Controls Fire Alarm Systems Tyco Fire & Security GmbH, Johnson Controls Fire Alarm Systems Tyco Fire & Security GmbH, Johnson Controls Fire Alarm Systems Tyco Fire & Security GmbH, Johnson Controls Fire Alarm Systems Tyco Fire & Security GmbH, Johnson Controls Fire Alarm Systems Tyco Fire & Security GmbH, Johnson Controls Fire Alarm Systems Tyco Fire & Security GmbH, Johnson Controls Fire Alarm Systems Tyco Fire & Security GmbH, Johnson Controls Fire Alarm Systems Tyco Fire & Security GmbH, Johnson Controls Fire Alarm Systems Tyco Fire & Security GmbH, Johnson Controls Fire Alarm Systems Tyco Fire & Security GmbH, Johnson Controls Fire Alarm Systems Tyco Fire & Security GmbH, Johnson Controls Fire Alarm Systems Tyco Fire & Security GmbH, Johnson Controls Fire Alarm Systems Tyco Fire & Security GmbH, Johnson Controls Fire Alarm Systems Tyco Fire & Security GmbH, Johnson Controls Fire Alarm Systems Tyco Fire & Security GmbH, Johnson Controls Fire Alarm Systems <th< td=""><td>CH1014;US1116</td><td>curity GmbH, Johnson Controls Fire</td><td>ON SYSTEM AND</td><td>1867039</td><td>06702888.6</td><td>Issued</td><td>오</td></th<>	CH1014;US1116	curity GmbH, Johnson Controls Fire	ON SYSTEM AND	1867039	06702888.6	Issued	오
APLN# DATENT# DATEN	CH1014;US1116	curity GmbH, Johnson Controls Fire		182472	20180182472F	Issued	CA
APIN# PATENT# TITLE ASSIGNEE (Johnson Controls Fire Protection, LP) 2013328423 2013328423 Interface Circuit For Distributed Fire Alarm In Loop 2014202166 Configuration Protection LP Protection, LP Pro	CH1014;US1116	curity GmbH, Johnson Controls Fire	Gunshot Detection System with Master Slave Timing Architecture		3091550	Published	CA
APLN# PATENT# ITILE ASSIGNEE Johnson Controls Fire Protection LP 2013328423 2013328423 Interface Circuit For Distributed Fire Alarm In Loop Tyco Fire & Security GmbH, Johnson Controls Fire Protection LP 2014202166 2014202166 System And Method For Using Customer Data Tyco Fire & Security GmbH, Johnson Controls Fire Protection LP 2015200391 2015200392 Detector System Tyco Fire & Security GmbH, Johnson Controls Fire Protection LP 2015200392 AU 2015200392 B2 Detector System Tyco Fire & Security GmbH, Johnson Controls Fire Protection LP 2015221823 2015221823 Method and apparatus for testing fire alarm initiating Tyco Fire & Security GmbH, Johnson Controls Fire Protection LP 2015298173 AU 2015298173 Strobe Notification Appliance Protection LP Prot	CH1014;US1116	ecurity GmbH, Johnson Controls Fire	on System with Forensic Data Audio Monitoring, and Two-Way		3091482	Pending	CA
APLN# ASSIGNEE (Johnson Controls Fire Protection LP) 2013328423 2013328423 2014202166 2014202166 2014202166 2014202166 2015200391 2015200391 2015200392 2015200391	CH1014;US1116	curity GmbH, Johnson Controls Fire		AU 361708	20150011843F	Issued	ΑU
APLIN# ASSIGNEE (Johnson Controls Fire Protection LP) 2013328423 20133284223 Interface Circuit For Distributed Fire Alarm In Loop Tyco Fire & Security GmbH, Johnson Controls Fire Protection LP P	CH1014;US1116	curity GmbH, Johnson Controls Fire		2019238961	2019238961	Published	ΑU
APLIN# ASSIGNATE (Johnson Controls Fire Protection LP) 2013328423 2013328423 2014202166 2014202166 2015200391 2015200391 2015200392 AU 2015200392 B2 Detector System 2015201823 2015221823 2015221823 2015221823 2015221823 2015221823 AU 20152298173 AU 2015298173 AU 2015298173 AU 2015298173 AU 2015298173 AU 2015208173 AU 20152008174 AU 20152008174 AU 20152008174 AU 20152008174 AU 20152008174 AU 20152008174 AU 2015	CH1014;US1116	curity GmbH, Johnson Controls Fire	thod For Providing Supplemental	2016213785	2016213785	Published	ΑU
APLIN# ASSIGNEE (Johnson Controls Fire Protection LP) 2013328423 Detector System Peter Alarm In Loop Tyco Fire & Security GmbH, Johnson Controls Fire Protection LP Protection LP	CH1014;US1116	curity GmbH, Johnson Controls Fire		AU2015298173	2015298173	Published	ΑU
APLN# PATENT# TITLE ASSIGNEE (Johnson Controls Fire Protection LP) 2013328423 2013328423 Interface Circuit For Distributed Fire Alarm In Loop Protection LP 2014202166 2014202166 System And Method For Using Customer Data Protection LP 2015200391 2015200391 Detector System Protection LP 2015200392 AU 2015200392 B2 Detector System Protection LP 2015200392 AU 2015200392 B2 Detector System Protection LP 2015200392 Protection LP 2015200392 Protection LP 2015200392 Protection LP 2015200392 Protection LP 2015200393 Protection LP 2015200392 Protection LP 2015200393 Protection LP 2015200393 Protection LP 2015200392	CH1014;US1116	curity GmbH, Johnson Controls Fire	d and apparatus for testing fire alarm initiating	2015221823	2015221823	Issued	ΑU
APLN# PATENT# TITLE ASSIGNEE (Johnson Controls Fire Protection LP) 2013328423 Interface Circuit For Distributed Fire Alarm In Loop Tyco Fire & Security GmbH, Johnson Controls Fire 2014202166 Z014202166 System And Method For Using Customer Data Tyco Fire & Security GmbH, Johnson Controls Fire 2015200391 Detector System Protection LP 2015200391 Detector System Protection LP 201620180 Protection LP 201620180 Protection LP 201620180 Protection LP 201720180 Prot	CH1014;US1116	curity GmbH, Johnson Controls Fire		AU 2015200392 B2	2015200392	Published	ΑU
APLIN# TITLE ASSIGNEE (Johnson Controls Fire Protection LP) 2013328423 2013328423 Interface Circuit For Distributed Fire Alarm In Loop Tyco Fire & Security GmbH, Johnson Controls Fire	CH1014;US1116	curity GmbH, Johnson Controls Fire		2015200391	2015200391	Issued	ΑU
APLN# PATENT# TITLE ASSIGNEE (Johnson Controls Fire Protection LP) 2013328423 2013328423 Interface Circuit For Distributed Fire Alarm In Loop Tyco Fire & Security GmbH, Johnson Controls Fire Configuration Protection LP	CH1014;US1116	curity GmbH, Johnson Controls Fire	For Using Customer Data Systems	2014202166	2014202166	Issued	Aυ
APLN# PATENT# TITLE ASSIGNEE (Johnson Controls Fire Protection LP)	CH1014;US1116	curity GmbH, Johnson Controls Fire	uit For Distributed Fire	2013328423	2013328423	Issued	ΑU
	ENTITYID	nnson Controls Fire Protection LP)	TITLE	PATENT#	APLN#	STATUS	CTRY

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13726335.6	13706679.1	12820989.7	12813151.3	12730075.4	11788548.3	11785048.7	11784733.5	11749587.9	09785183.6	08850142.4	08775960.1	07824656.8	005647724-0003	005647724-0002	005647724-0001	002680074-0001	002938480	20140799875	18194953.8	17150899.7	17150897.1	16183712.5	15718105.8	APLN# 15707428.7
	EP2815388 B2		2783478	2721590	EP2625680 B1	EP2625679	2625677		EP2350616	2208289		2109759	005647724-0003	005647724-0002	005647724-0001	002680074-0001	002938480-0001	202014011360.2	602018010325.2	EP3171531- 602011059404.4	60 2011 062 538.1	602016047013.6	EP3134886	PATENT # EP3111435
Current Regulated Led Strobe Drive Circuit	Combustion Product Detection	System And Method For Backup Communication Over Ethernet	System And Method For Backup Communication Using Power Over Ethernet	Dual Mode Led Strobe	Detector System	Safety System	Isolator Circuit	Supervision For A Light Display Device	A Particulate Detector	VOX CIRCUIT INTERFACE WITH 2-WIRE COMMUNICATION PATHS	Identifying A Plurality Of Devices	A Detector	Motion Detector	Motion Detector	Motion Detector	Unknown Title	Alarm devices - Detector with offset sounder	Alarm Panel	Method And Apparatus For Evaluation Of Temperature Sensors	Detector System	Detector System	CONTEXTUAL FIRE DETECTION AND ALARM VERIFICATION	Self-Testing Smoke Detector With Integrated Smoke Source	TITLE Method And Apparatus For Testing Fire Alarm Initiating Devices
ecurity GmbH, Johnson Controls Fire	ecurity GmbH, Johnson Controls Fire	ecurity GmbH, Johnson Controls Fire	:	Tyco Fire & Security GmbH, Johnson Controls Fire Protection LP	Tyco Fire & Security GmbH, Johnson Controls Fire Protection LP	ecurity GmbH, Johnson Controls Fire	ecurity GmbH, Johnson Controls Fire	ecurity GmbH, Johnson Controls Fire	ecurity GmbH, Johnson Controls Fire	ecurity GmbH, Johnson Controls Fire	ecurity GmbH, Johnson Controls Fire	ecurity GmbH, Johnson Controls Fire	ecurity GmbH, Johnson Controls Fire	ecurity GmbH, Johnson Controls Fire	ecurity GmbH, Johnson Controls Fire	Tyco Fire & Security GmbH, Johnson Controls Fire Protection LP	Tyco Fire & Security GmbH, Johnson Controls Fire Protection LP	ecurity GmbH, Johnson Controls Fire	ecurity GmbH, Johnson Controls Fire	ecurity GmbH, Johnson Controls Fire	ecurity GmbH, Johnson Controls Fire	Tyco Fire & Security GmbH, Johnson Controls Fire Protection LP	Tyco Fire & Security GmbH, Johnson Controls Fire Protection LP) 100000
CH1014;US1116		2	:	ì	:			3	:	3		5		3	:	(:	4		3	:	3		ENTITY ID CH1014;US1116

CH1014;US1116	Tyco Fire & Security GmbH, Johnson Controls Fire	Gunshot Detection System with Master Slave Timing		19711166.9	Published	₽
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CH1014:US1116	Tyco Fire & Security GmbH, Johnson Controls Fire OProtection LP	Gunshot Detection System with Forensic Data Retention, Live Audio Monitoring, and Two-Way Communication		19707130.1	Published	Ð
CH1014;US1116	curity GmbH, Johnson Controls Fire	Isolator Circuit		18203884.4	Published	EP
CH1014;US1116	ecurity GmbH, Johnson Controls Fire	Isolator Circuit		18203881.0	Published	FP
CH1014;US1116	curity GmbH, Johnson Controls Fire	Method And System For Service Verification Using Access Control System		18195315.9	Allowed	FP
CH1014;US1116	:	Method And Apparatus For Verifying Service Of Installed Devices Using Rfid		18194957.9	Published	ĘP
CH1014;US1116	1	Method And System For Service Verification Using Wifi Signal Strength Mapping		18194955.3	Published	F
CП1014, 031110	במווגץ מוווסה, זמווווצמוו כמוונוסוג רוופ	Service Scheduling And Evaluation		10194934.0	rublished	9
CHIOI4, USILIB	curity GribH, Johnson Controls Fire	weinou And Apparatus For Evaluation Of Temperature Sensors	Er343/3/1	10194903.6	Issued	3 7
C11014, 031110	curity dilibrity Johnson Controls Fire	Systems System		1010/1013 0	- dollaried	3 5
C111011.115111	onity Combit Tokasan Control Time	IDENTIFYING GUNSHOTS FIRED INDOORS		1 10000] !
CH1014:US1116	Protection LP Type Fire & Security GmbH Johnson Controls Fire	Indoors SYSTEM AND METHOD FOR ACCUISTICALLY	FP3504691	17764473 9	helissi	FP
CH1014;US1116	curity GmbH, Johnson Controls Fire	Method For Acoustically Counting Gunshots Fired		17758001.6	Published	EP
CH1014;US1116	curity GmbH, Johnson Controls Fire	Detector System	EP3171531	17150899.7	Issued	Ŧ
CH1014;US1116	eurity GmbH, Johnson Controls Fire	Detector System	EP3174224	17150897.1	Issued	Ŧ
CH1014;US1116	eurity GmbH, Johnson Controls Fire	CONTEXTUAL FIRE DETECTION AND ALARM VERIFICATION	EP3147879	16183712.5	Issued	Ŧ
CH1014;US1116	curity GmbH, Johnson Controls Fire	Strobe Notification Appliance	EP3175171	15750185.9	Issued	Ą
CH1014;US1116	3	Self-Testing Smoke Detector With Integrated Smoke Source	EP3134886	15718105.8	Issued	Ę
CH1014;US1116	eurity GmbH, Johnson Controls Fire	Method For Testing Notification Appliances In Alarm Systems	2973480	14729097.7	Issued	F
CH1014;US1116	ecurity GmbH, Johnson Controls Fire	Method For Self-Testing Notification Appliances In Alarm Systems		14728788.2	Allowed	Ð
CH1014;US1116	curity GmbH, Johnson Controls Fire	Method For Self-Testing Notification Appliances In Alarm Systems	2973479	14714907.4	Issued	₽
CH1014;US1116	curity GmbH, Johnson Controls Fire	Methods For Inspecting And Testing Notification Appliances In Alarm Systems		14709505.3	Published	Ŧ
CH1014;US1116	Tyco Fire & Security GmbH, Johnson Controls Fire Protection LP	Control Panel For A Fire Detection System	EP2879105 B1	14195284.6	Issued	Ŧ
CH1014;US1116	curity GmbH, Johnson Controls Fire	System And Method For Using Customer Data Networks For Alarm Systems		14167268.3	Published	Ŧ
CH1014;US1116		Interface Circuit For Distributed Fire Alarm In Loop Configuration		13774772.1	Published	Ð
CH1014;US1116	Tyco Fire & Security GmbH, Johnson Controls Fire of Protection LP	LED STROBES WITH VARIABLE CANDELA SETTINGS AND FIXED PULSE WIDTH	EP2862150	13731011.6	Issued	Ŧ
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11785048.7	11784733.5	08850142.4	07824656.8	1804718.3	20110784733	18194953.8	17150899.7	17150897.1	16183712.5	15718105.8	15707428.7	14729097.7	14714907.4	14195284.6	13731011.6	13706679.1	12813151.3	12730075.4	11788548.3	11785048.7	09785183.6	08850142.4	07824656.8	APLN # 19711897.9
EP2625679	2625677	2208289	2109759	2572223	2625677	EP3457371	EP3171531	3174224	EP3147879	EP3134886	EP3111435	2973480	2973479	EP2879105 B1	EP2862150	EP2815388 B2	2783478	2721590	EP2625680 B1	EP2625679	2350616	2208289	2109759	PATENT#
Safety System	Isolator Circuit	VOX CIRCUIT INTERFACE WITH 2-WIRE COMMUNICATION PATHS	A Detector	Power control circuit	Isolator Circuit	Method And Apparatus For Evaluation Of Temperature Sensors	Detector System	Detector System	CONTEXTUAL FIRE DETECTION AND ALARM VERIFICATION	Self-Testing Smoke Detector With Integrated Smoke Source	Method And Apparatus For Testing Fire Alarm Initiating Devices	Method For Testing Notification Appliances In Alarm Systems	Method For Self-Testing Notification Appliances In Alarm Systems	Control Panel For A Fire Detection System	LED STROBES WITH VARIABLE CANDELA SETTINGS AND FIXED PULSE WIDTH	Combustion Product Detection	System And Method For Backup Communication Using Power Over Ethernet	Dual Mode Led Strobe	Detector System	Safety System	A Particulate Detector	VOX CIRCUIT INTERFACE WITH 2-WIRE COMMUNICATION PATHS	A Detector	TITLE POWER CONTROL CIRCUIT
ecurity GmbH, Johnson Controls Fire	ecurity GmbH, Johnson Controls Fire	Tyco Fire & Security GmbH, Johnson Controls Fire Protection LP	Tyco Fire & Security GmbH, Johnson Controls Fire Protection LP	Tyco Fire & Security GmbH, Johnson Controls Fire Protection LP	Tyco Fire & Security GmbH, Johnson Controls Fire Protection LP	Tyco Fire & Security GmbH, Johnson Controls Fire Protection LP	Tyco Fire & Security GmbH, Johnson Controls Fire Protection LP	Tyco Fire & Security GmbH, Johnson Controls Fire Protection LP	Tyco Fire & Security GmbH, Johnson Controls Fire Protection LP	Tyco Fire & Security GmbH, Johnson Controls Fire Protection LP	Tyco Fire & Security GmbH, Johnson Controls Fire Protection LP	Tyco Fire & Security GmbH, Johnson Controls Fire Protection LP	Tyco Fire & Security GmbH, Johnson Controls Fire Protection LP	Tyco Fire & Security GmbH, Johnson Controls Fire Protection LP	Tyco Fire & Security GmbH, Johnson Controls Fire Protection LP	Tyco Fire & Security GmbH, Johnson Controls Fire Protection LP	Tyco Fire & Security GmbH, Johnson Controls Fire Protection LP	Tyco Fire & Security GmbH, Johnson Controls Fire Protection LP	Tyco Fire & Security GmbH, Johnson Controls Fire Protection LP	Tyco Fire & Security GmbH, Johnson Controls Fire Protection LP	Tyco Fire & Security GmbH, Johnson Controls Fire Protection LP	Tyco Fire & Security GmbH, Johnson Controls Fire Protection LP	Tyco Fire & Security GmbH, Johnson Controls Fire Protection LP	ASSIGNEE (Jahnson Controls Fire Protection LP) Tyco Fire & Security GmbH, Johnson Controls Fire Protection LP
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CHIUI4;USIII	Protection P	Detection arrangements	:/845524	11/88450/	issued	 S
CU1011.1151116		information in a fire alarm system	10000	11/00/1507		5
CH1014;US1116	curity GmbH, Johnson Controls Fire	Method and apparatus for providing occupancy	7688212	11/881312	Issued	SU
CH1014;US1116	Tyco Fire & Security GmbH, Johnson Controls Fire Protection LP	System for testing NAC operability using backup power	8558711	11/825213	Issued	S
CH1014;US1116	curity GmbH, Johnson Controls Fire	Testing a fire detector sensor	7609154	11/587461	Issued	S
CH1014;US1116	3	Fire alarm textual notification related application	8319625	11/514612	Issued	SO
CH1014;US1116	curity GmbH, Johnson Controls Fire	Optical element driving circuit	7471049	11/479641	Issued	S
CH1014;US1116	Tyco Fire & Security GmbH, Johnson Controls Fire Protection LP	Optical element driving circuit	7456585	11/432120	Issued	S
CH1014;US1116	curity GmbH, Johnson Controls Fire	Method and apparatus for verifying operation of notification appliances during low input voltage condition.	7333010	11/282358	Issued	S
CH1014;US1116	7	Addressable Smart Speaker	7170396	10/873027	Issued	SO
CH1014;US1116	curity GmbH, Johnson Controls Fire	Programmable Multicandela Notification Device	7369037	10/872852	Issued	S
CH1014;US1116	curity GmbH, Johnson Controls Fire	Unknown Title	4397	415360324	Issued	SA
CH1014;US1116	curity GmbH, Johnson Controls Fire	Notification Appliance	420140	420140	Issued	NZ
CH1014;US1116	Tyco Fire & Security GmbH, Johnson Controls Fire Protection LP	Method And Apparatus For Evaluation Of Temperature Sensors	EP3457371	18194953.8	Issued	GB
CH1014;US1116	eurity GmbH, Johnson Controls Fire	Detector System	EP3171531	17150899.7	Issued	GB
CH1014;US1116	curity GmbH, Johnson Controls Fire	я	EP3174224	17150897.1	Issued	GB
CH1014;US1116	curity GmbH, Johnson Controls Fire	CONTEXTUAL FIRE DETECTION AND ALARM VERIFICATION	EP3147879	16183712.5	Issued	GB
CH1014;US1116	curity GmbH, Johnson Controls Fire	d Smoke	EP3134886	15718105.8	Issued	GB
CH1014;US1116		Method And Apparatus For Testing Fire Alarm Initiating Devices	EP3111435	15707428.7	Issued	GB
CH1014;US1116	curity GmbH, Johnson Controls Fire	Method For Testing Notification Appliances in Alarm Systems	2973480	14729097.7	Issued	GB
CH1014;US1116	Tyco Fire & Security GmbH, Johnson Controls Fire Protection LP	Method For Self-Testing Notification Appliances In Alarm Systems	2973479	14714907.4	Issued	GB
CH1014;US1116	curity GmbH, Johnson Controls Fire	Control Panel For A Fire Detection System	EP2879105 B1	14195284.6	Issued	GB
CH1014;US1116	:	LED STROBES WITH VARIABLE CANDELA SETTINGS AND FIXED PULSE WIDTH	EP2862150	13731011.6	Issued	GB
CH1014;US1116	curity GmbH, Johnson Controls Fire	COMBUSTION PRODUCT DETECTION	EP2815388 B2	13706679.1	Issued	GB
CH1014;US1116	curity GmbH, Johnson Controls Fire	System And Method For Backup Communication Using Power Over Ethernet	2783478	12813151.3	Issued	GB
CH1014;US1116	()	Dual Mode Led Strobe	2721590	12730075.4	Issued	GB
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CH1014;US1116	curity GmbH. Johnson Controls Fire	: Dual Mode Led Stroke	:8772776	12/160105	-	5
CH1014;US1116	curity GmbH, Johnson Controls Fire		8559006	13/121467	Issued	US
CH1014;US1116	curity GmbH, Johnson Controls Fire	r Monitoring Of Fire And (S	8698613	13/042191	Issued	SN
CH1014;US1116	Tyco Fire & Security GmbH, Johnson Controls Fire Protection LP	າ Circuit For Current Peaking Reduction ເAppliances	8354798	13/005704	Issued	S
CH1014;US1116	curity GmbH, Johnson Controls Fire	Method And System For Wireless Configuration, Control, And Status Reporting Of Devices In A Fire Alarm System	8508359	12/972151	Issued	S
CH1014;US1116	eurity GmbH, Johnson Controls Fire		8705038	12/946708	Issued	S
CH1014;US1116	curity GmbH, Johnson Controls Fire	Apparatus And Methods For Providing Emergency Override Of Informational Displays	8723681	12/944801	Issued	SS
CH1014;US1116	:	Pseudo non-addressable alarm system	8378806	12/884818	Issued	S
CH1014;US1116	curity GmbH, Johnson Controls Fire	System And Method For Detecting A Property Of A Strobe Cover	8624754	12/851958	Issued	SS
CH1014;US1116	curity GmbH, Johnson Controls Fire	Adjustable Strobe Reflector Assembly	8845136	12/749928	Issued	SN
CH1014;US1116	curity GmbH, Johnson Controls Fire	Identifying A Plurality Of Devices	8232869	12/688531	Issued	SN
CH1014;US1116	curity GmbH, Johnson Controls Fire	Configurable Notification Device	8368528	12/572014	Issued	SN
CH1014;US1116	ecurity GmbH, Johnson Controls Fire	Ground Fault Detection	8373420	12/533828	Issued	SN
CH1014;US1116	curity GmbH, Johnson Controls Fire	Detector	8154415	12/530241	Issued	SN
CH1014;US1116	curity GmbH, Johnson Controls Fire	Detector	9134180	12/525928	Issued	SN
CH1014;US1116	curity GmbH, Johnson Controls Fire	Self-Testing Notification Appliance	8228182	12/483039	Issued	SN
CH1014;US1116	curity GmbH, Johnson Controls Fire	Multiple Event Notification Appliance	8138928	12/360461	Issued	S
CH1014;US1116	curity GmbH, Johnson Controls Fire	Switchable Strobe Lens	8049632	12/260728	Issued	SN
CH1014;US1116	curity GmbH, Johnson Controls Fire	Optical Element Driving Circuit	7994729	12/256066	Issued	SS
CH1014;US1116	curity GmbH, Johnson Controls Fire	Emergency notification appliance mounting bracket	8511630	12/249580	Issued	SS
CH1014;US1116	curity GmbH, Johnson Controls Fire	Self-adjusting and self-modifying addressable speaker	:8023661	12/040300	Issued	SS
CH1014;US1116	curity GmbH, Johnson Controls Fire	VOX circuit with 2-wire interfaces	8081778	11/940903	Issued	SN
CH1014;US1116	curity GmbH, Johnson Controls Fire	Window cleanliness detection system	7948628	11/921113	Issued	SN
CH1014;US1116	curity GmbH, Johnson Controls Fire	Flame detector and a method	7956329	11/921111	Issued	CS
CH1014;US1116		Non-addressable dual notification appliance	7999692	11/906827	Issued	SN
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	13/890351	13/889448	13/877056	13/877045	13/836942	13/836831	10,00000	13/835525	13/780244	13/709180	13/688441	13/610801	13/601585	13/578522	13/540690	13/525427	13/495559	13/43232/	13/422368	13/369099	13/271976	13/249466	13/195497	13/133304	:12/10220/
	10044178	9293031	9153968	9847019	8994525	90/6313	0000011	9076321	9814157	8558472	9076319	8797724	8693641	9286779	8890/04	8/96931	8760301	9026439	8939013	8503491	9245427	8736444	8269637	8/60280	
	Notification Appliance Enclosure	System And Method For Using Customer Data Networks For Alarm Systems	solator Circuit	Detector System	Method For Testing Notification Appliances in Alarm Systems	Alarm Systems	Appliances In Alarm Systems	Real Time Control Chart Generation And Monitoring Of Safety Systems	Wire Management And Wire Entry Cover Bracket	Compensation Circuit For Current Peaking Reduction In Notification Appliances	User Interface Broker For Fire Alarm Systems	Notification Appliance Enclosure	Fire Alarm With Integrated Firefighter Communications System	Detector Devices	Method And Apparatus For Monitoring Transient Electrical Strikes	Current Regulated Led Strobe Drive Circuit	Led Strobes With Fixed Pulse Width	Verbal Intelligibility Analyzer For Audio Announcement Systems	Duct Detector With Improved Functional Test Capability	Fiber Optic Multiplex Modem	System And Method For Synchronization Of Networked Fire Alarm Panels	System And Method For Wireless Heat Detection	Switchable Strobe Lens	Method And Apparatus For Communicating With Non Addressable Notification Appliances	
ירוטופכנוטוו בר	Tyco Fire & Security GmbH, Johnson Controls Fire	Tyco Fire & Security GmbH, Johnson Controls Fire Protection LP	2	Tyco Fire & Security GmbH, Johnson Controls Fire Protection LP	2	Protection LP	Protection LP	Tyco Fire & Security GmbH, Johnson Controls Fire Protection LP	Tyco Fire & Security GmbH, Johnson Controls Fire Protection LP	: 👸	Tyco Fire & Security GmbH, Johnson Controls Fire Protection LP	Tyco Fire & Security GmbH, Johnson Controls Fire Protection LP			Tyco Hre & Security GmbH, Johnson Controls Hre Protection LP	Protection LP GmbH, Johnson Controls Fire	Tyco Fire & Security GmbH, Johnson Controls Fire Protection LP	Tyco Hre & Security GmbH, Johnson Controls Hre		Tyco Fire & Security GmbH, Johnson Controls Fire Protection LP	Tyco Fire & Security GmbH, Johnson Controls Fire Protection LP	Tyco Fire & Security GmbH, Johnson Controls Fire Protection LP	Tyco Fire & Security GmbH, Johnson Controls Fire Protection LP	Protection LP	!
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CT /: ICAA1 C /CA003		onization Of Notification Patterns In	lerting
PCT/IB2017/056828		Method And System For Monitoring Fire Alarm Systems	
PCT/EP2019/056625		POWER CONTROL CIRCUIT	
B2019/051203		ection System with Master Slave	ning
B2019/051202		Gunshot Detection System with Forensic Data Retention, Live Audio Monitoring, and Two-Way Communication	
29/590034	D805940	Sounder for alarm unit	
19/512235	D769757	Notification Appliance	
17/060390		: ¬	
.6/979622		Power Control Circuit	
16/968932		Gunshot Detection System with Master Slave Timi Architecture	
16/968931		Gunshot Detection System with Forensic Data Retention, Live Audio Monitoring, and Two-Way Communication	
.6/328093		Method For Acoustically Counting Gunshots Fired Indoors	_
.6/328070	10832565	System And Method For Acoustically Identifying Gunshots Fired Indoors	
5/707167		Method And Apparatus For Evaluation Of Temperature Sensors	
.5/707161	10755555	Method And Apparatus For Verifying Service Of Installed Devices Using Rfid	
5/707148	10681667	Method And System For Service Verification Using Wiff Signal Strength Mapping	
15/707142	10735418	Method And System For Service Verification Using Access Control System	
.5/707135		Method And Apparatus For Cloud Based Predictive Service Scheduling And Evaluation	
15/342427	9978256	Wethod And System For Monitoring Fire Alarm Systems	
15/095614	10008105	System And Method For Charging Supplemental Power Units For Alarm Notification Devices	
.5/088618	9959748	Fire Detection System With Self-Testing Fire Sensor	, S
.5/058623	10069293	Isolator Circuit	
14/943751	10077575	Door Lock Extender And Method Of Use	8
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CA1006:1151116	ducts Canada ITD Ighnson	Indoor Positioning System For Fire Alarm System	•	16/733821	Published	SII
CA1006;US1116	ducts Canada LTD, Johnson ofection P	Indoor Positioning System For Fire Alarm System	10565859	15/953627	Issued	S
CA1006;US1116	oducts Canada LTD, Johnson Protection LP	Indoor Positioning System For Fire Alarm System	EP3557551	19163213.2	Issued	Ŧ
US1120;US1116	ducts LP, Johnson Controls Fire	System And Method For Detecting And Suppressing Fire Using Wind Information	10573145	15/973001	Issued	S
US1120;US1116	ducts LP	System And Method For Detecting Fire Location	10497243	15/966562	Issued	S
US1120;US1116	ducts LP, Johnson Controls Fire	System And Method For Detecting And Suppressing Fire Using Wind Information	9990825	15/105311	Issued	S
US1120;US1116		System And Method For Monitoring And Suppressing Fire		15/105308	Published	S
US1120;US1116	Tyco Fire Products LP, Johnson Controls Fire Protection LP	System And Method For Detecting Fire Location	9990824	15/105304	Issued	S
US1120;US1116	Tyco Fire Products LP, Johnson Controls Fire Protection LP	System And Method For Detecting And Suppressing Fire Using Wind Information	3084736	14825188.7	Issued	SE
US1120;US1116	: =:	System And Method For Detecting And Suppressing Fire Using Wind Information	3084736	14825188.7	Issued	Z
US1120;US1116	ducts LP, Johnson Controls Fire	System And Method For Detecting And Suppressing Fire Using Wind Information	3084736	14825188.7	Issued	GB
US1120;US1116	ducts LP, Johnson Controls Fire	System And Method For Monitoring And Suppressing Fire	EP3084737	14824929.5	Issued	GB
US1120;US1116	Tyco Fire Products LP, Johnson Controls Fire Protection LP	System And Method For Detecting And Suppressing Fire Using Wind Information	3084736	14825188.7	Issued	R
US1120;US1116	Tyco Fire Products LP, Johnson Controls Fire Protection LP	System And Method For Monitoring And Suppressing Fire	EP3084737	14824929.5	Issued	æ
US1120;US1116	Tyco Fire Products LP, Johnson Controls Fire Protection LP	System And Method For Detecting And Suppressing Fire Using Wind Information	3084736	14825188.7	Issued	ES
US1120;US1116	lucts LP, Johnson Controls Fire	System And Method For Detecting And Suppressing Fire Using Wind Information	3084736	14825188.7	Issued	P
US1120;US1116	ducts LP, Johnson Controls Fire	System And Method For Detecting Fire Location	EP3084738	14825187.9	Allowed	F
US1120;US1116	Tyco Fire Products LP, Johnson Controls Fire Protection LP	System And Method For Monitoring And Suppressing Fire	EP3084737	14824929.5	Issued	Ŧ
US1120;US1116	Tyco Fire Products LP, Johnson Controls Fire Protection LP	System And Method For Detecting And Suppressing Fire Using Wind Information	3084736	14825188.7	Issued	닺
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US1120;US1116	ducts LP, Johnson Controls Fire	System And Method For Monitoring And Suppressing Fire	EP3084737	14824929.5	Issued	Œ
CH1014;US1116	s Fire	Method For Acoustically Counting Gunshots Fired Indoors		PCT/US2017/046952	Published	WO
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SCHEDULE 2

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