Conclusion

17. Any inquiry concerning this communication or earlier communications from the examiner should be directed to HASSAN KHAN whose telephone number is (313) 446-6574 and fax number is (571) 483-7559. The examiner can normally be reached on MONDAY - THURSDAY. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor Philip Chea can be reached on (571) 272-3951. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/HASSAN A KHAN/
Examiner, Art Unit 2456
/PHILIP J CHEA/
Supervisory Patent Examiner, Art Unit 2456

Notice of References Cited	Application/Control No. 15/992,221	Applicant(s)/Patent Under Reexamination BINDER et al.	
	Examiner HASSAN A KHAN	Art Unit 2456	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
*	A	US-20170272316-A1	09-2017	Johnson; Michael W.	H04L61/301	1/1
*	B	US-20180253069-A1	09-2018	Raji; Reza	G06Q30/02	1/1
*	C	US-20160218884-A1	07-2016	EBROM; Matthew P.	D06F33/02	1/1
*	D	US-20110251807-A1	10-2011	Rada; Patrick A.	G01D4/00	702/61
*	E	US-20120228952-A1	09-2012	Hall; Katherine L.	H03H7/40	307/104
*	F	US-20140170275-A1	06-2014	Bordin; Domenic	G09B19/24	426/233
*	G	US-20150226439-A1	08-2015	Mikulec; Conrad S.	F24C15/2021	99/337
*	H	US-20120325197-A1	12-2012	Legaspi; Ferdinand Villegas	F23N5/242	126/42
*	I	US-20090183729-A1	07-2009	Barkhouse; Sydney	A47J27/62	126/39BA
*	J	US-20080130520-A1	06-2008	Ebrom; Matthew P.	G06F9/54	370/254
*	K	US-20090046715-A1	02-2009	MCCOY; RICHARD A.	G06F9/54	370/389
*	L	US-20130235197-A1	09-2013	EBROM; MATTHEW P.	G06F9/54	348/143
	M					

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	CPC Classification
	N					
	O					
	P					
	Q					
	R					
	S					
	T					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	
	V	
	W	
	X	

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

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	Examiner	**Art Unit**
	HASSAN A KHAN	2456

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

CLAIMS

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIM		DATE								
Final	Original	08/15/2018	09/21/2018	01/11/2019	04/09/2019					
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	3	÷	N	✓	✓					
	4	÷	N	✓	✓					
	5	÷	N	✓	✓					
	6	÷	N	✓	✓					
	7	÷	✓	✓	✓					
	8	÷	N	✓	✓					
	9	÷	✓	✓	✓					
	10	÷	✓	✓	✓					
	11	÷	N	✓	✓					
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	42	÷	N	N	N					

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CLAIM		DATE								
Final	Original	08/15/2018	09/21/2018	01/11/2019	04/09/2019					
	43	÷	N	N	N					
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	63	÷	N	N	N					
	64	÷	N	N	N					

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
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CPC - Searched*		
Symbol	**Date**	**Examiner**
H04L67/12,B60K31/00,B60K31/18,B60Y2200/11,B60Y2200/12, B60Y2200/126,B60Y2200/13,B60Y2200/30,B60Y2200/40,B60Y2200/50 ,B60Y2200/90,G01C21/00,G06Q2240/00,G07C5/008,G08G1/00 (combined with text search)	09/21/2018	H.K.
H04L67/12,B60K31/00,B60K31/18,B60Y2200/11,B60Y2200/12, B60Y2200/126,B60Y2200/13,B60Y2200/30,B60Y2200/40,B60Y2200/50 ,B60Y2200/90,G01C21/00,G06Q2240/00,G07C5/008,G08G1/00 (combined with text search)	01/11/2019	H.K.
H04L67/12,B60K31/00,B60K31/18,B60Y2200/11,B60Y2200/12, B60Y2200/126,B60Y2200/13,B60Y2200/30,B60Y2200/40,B60Y2200/50 ,B60Y2200/90,G01C21/00,G06Q2240/00,G07C5/008,G08G1/00 (combined with text search)	04/09/2019	H.K.

CPC Combination Sets - Searched*		
Symbol	**Date**	**Examiner**

US Classification - Searched*			
Class	**Subclass**	**Date**	**Examiner**
709	218 (combined with text search)	09/21/2018	H.K.
709	218 (combined with text search)	01/11/2019	H.K.
709	218 (combined with text search)	04/09/2019	H.K.

* See search history printout included with this form or the SEARCH NOTES box below to determine the scope of the search.

	/HASSAN A KHAN/ Examiner, Art Unit 2456

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Search Notes		
Search Notes	**Date**	**Examiner**
Inventor search conducted (see EAST search history)	09/21/2018	H.K.
Google Patents search conducted	09/20/2018	H.K.
Assignee search conducted (see EAST search history)	09/21/2018	H.K.
EAST search history (see attached)	09/21/2018	H.K.
Inventor search conducted (see EAST search history)	01/11/2019	H.K.
Assignee search conducted (see EAST search history)	01/11/2019	H.K.
EAST search history (see attached)	01/11/2019	H.K.
Consulted with SPE Philip Chea on Restriction	04/08/2019	H.K.
Consulted with Technology Director Office on Restriction	12/18/2018	H.K.
Inventor search conducted (see EAST search history)	04/09/2019	H.K.
Assignee search conducted (see EAST search history)	04/09/2019	H.K.
EAST search history (see attached)	04/09/2019	H.K.

Interference Search			
US Class/CPC Symbol	**US Subclass/CPC Group**	**Date**	**Examiner**

	/HASSAN A KHAN/ Examiner, Art Unit 2456

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	5775	709/218.ccls.	US-PGPUB; USPAT	OR	ON	2019/04/09 16:21
L2	18833	H04L67/12.cpc.	US-PGPUB; USPAT	OR	ON	2019/04/09 16:21
L3	113966	B60K 31/00.cpc. B60K 31/18.cpc. B60Y2200/11.cpc. B60Y2200/12.cpc. B60Y2200/126.cpc. B60Y2200/13.cpc. B60Y2200/30.cpc. B60Y2200/40.cpc. B60Y2200/50.cpc. B60Y2200/90.cpc. G01C 21/00.cpc. G06Q2240/00.cpc. G07C 5/008.cpc. G08G 1/00.cpc.	US-PGPUB; USPAT	OR	ON	2019/04/09 16:21
L4	51	(maytal and benjamin).in.	US-PGPUB; USPAT	OR	ON	2019/04/09 16:21
L5	415	(binder and yehuda).in.	US-PGPUB; USPAT	OR	ON	2019/04/09 16:21
L6	66	(may and patents).aanm.	US-PGPUB; USPAT	OR	ON	2019/04/09 16:21
L7	49	(may and patents).as.	US-PGPUB; USPAT	OR	ON	2019/04/09 16:21
L8	456	L4 L5 L6 L7	US-PGPUB; USPAT	OR	ON	2019/04/09 16:21
L9	136815	L1 or L2 or L3 or L8	US-PGPUB; USPAT	OR	ON	2019/04/09 16:21
L10	5	L9 and (relay with solenoid with reed).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/04/09 16:21
S1	1	"13733634"	US-PGPUB; USPAT	ADJ	ON	2016/12/03 01:33
S2	7358	(actuator with sensor with network)	US-PGPUB; USPAT	ADJ	ON	2016/12/03 01:34
S3	161	(actuator with sensor with network with router)	US-PGPUB; USPAT	ADJ	ON	2016/12/03 01:34
S4	14	(actuator with sensor with network with router with (car or vehicle))	US-PGPUB; USPAT	ADJ	ON	2016/12/03 01:34
S5	1020	(actuator with sensor with network with (car or vehicle))	US-PGPUB; USPAT	ADJ	ON	2016/12/03 01:37
S6	535	S5 and (router or routing)	US-PGPUB; USPAT	ADJ	ON	2016/12/03 01:38
S7	147	S5 and (NAT or DHCP)	US-PGPUB; USPAT	ADJ	ON	2016/12/03 01:38
S8	54	S5 and (control adj2 logic)	US-PGPUB; USPAT	ADJ	ON	2016/12/03 01:39

S9	7358	(actuator with sensor with network)	US-PGPUB; USPAT	ADJ	ON	2016/12/03 01:48
S10	675	S9 and (piezoelectric$6 or (piezo$1electric$6))	US-PGPUB; USPAT	ADJ	ON	2016/12/03 01:49
S11	120	S10 and (network with (routing or router))	US-PGPUB; USPAT	ADJ	ON	2016/12/03 01:49
S12	58	S11 and (vehicle or car)	US-PGPUB; USPAT	ADJ	ON	2016/12/03 01:49
S13	21	(US-20130201316-$ or US-20100030421-$ or US-20120303216-$ or US-20140188343-$ or US-20140236384-$ or US-20070076593-$ or US-20100211258-$ or US-20080100428-$ or US-20060111825-$ or US-20100148940-$ or US-20100201516-$ or US-20110035491-$ or US-20150046582-$).did. or (US-8140658-$ or US-7844687-$ or US-7797367-$ or US-7020701-$ or US-6859831-$ or US-6832251-$ or US-6826607-$ or US-6735630-$).did.	US-PGPUB; USPAT	ADJ	ON	2017/02/13 22:08
S14	21	S13 and actuator	US-PGPUB; USPAT	ADJ	ON	2017/02/13 22:08
S15	1	S13 and (actuator same router)	US-PGPUB; USPAT	ADJ	ON	2017/02/13 22:08
S16	200	(actuator same router same ((vehicle or car or automobile or transport) or (building)))	US-PGPUB; USPAT	ADJ	ON	2017/02/13 22:11
S17	119	(actuator same router same ((vehicle or car or automobile or transport) or (building))) same network	US-PGPUB; USPAT	ADJ	ON	2017/02/13 22:12
S18	110	(actuator same router same ((vehicle or car or automobile or transport) or (building))) same network same sensor	US-PGPUB; USPAT	ADJ	ON	2017/02/13 22:12
S19	76	(actuator same router same ((vehicle or car or automobile or transport) or (building))) same network same (sensor or control) same data	US-PGPUB; USPAT	ADJ	ON	2017/02/13 22:12
S20	68	(actuator same router same ((vehicle or car or automobile) or (building))) same network same (sensor or control) same data	US-PGPUB; USPAT	ADJ	ON	2017/02/13 22:13
S21	21	(actuator same router same ((vehicle or car or automobile) same (building))) same network same (sensor or control) same data	US-PGPUB; USPAT	ADJ	ON	2017/02/13 22:15
S22	21	actuator same router same (vehicle or car or automobile) same building same network same (sensor or control) same data	US-PGPUB; USPAT	ADJ	ON	2017/02/13 22:15
S23	47	S20 XOR S22	US-PGPUB; USPAT	ADJ	ON	2017/02/13 22:17
S24	1	(US-8195844-$).did.	USPAT	ADJ	ON	2017/02/13 22:36
S25	1	"20090083589"	USPAT	ADJ	ON	2017/02/13 22:36
S36	1	(US-20130201316-$).did.	US-PGPUB	ADJ	ON	2017/02/14

						00:34
S37	520	(home with network) same sensor same gateway same network	US-PGPUB	ADJ	ON	2017/02/14 00:37
S38	222	(home with network) with sensor with gateway	US-PGPUB	ADJ	ON	2017/02/14 00:37
S39	4	(home with network) with sensor with gateway with command	US-PGPUB	ADJ	ON	2017/02/14 00:38
S40	22	(US-20130201316-$ or US-20100030421-$ or US-20120303216-$ or US-20140188343-$ or US-20140236384-$ or US-20070076593-$ or US-20100211258-$ or US-20080100428-$ or US-20060111825-$ or US-20100148940-$ or US-20100201516-$ or US-20110035491-$ or US-20150046582-$ or US-20160062330-$).did. or (US-8140658-$ or US-7844687-$ or US-7797367-$ or US-7020701-$ or US-6859831-$ or US-6832251-$ or US-6826607-$ or US-6735630-$).did.	US-PGPUB; USPAT	ADJ	ON	2017/02/14 03:23
S41	21	S40 and (vehicle or vehical or automobile or car)	US-PGPUB; USPAT	ADJ	ON	2017/02/14 03:29
S42	21	S40 and (vehicle or vehical or automobile or car) and actuator	US-PGPUB; USPAT	ADJ	ON	2017/02/14 03:29
S43	15	S40 and (vehicle or vehical or automobile or car) and actuator and sensor and network and cellular and wireless	US-PGPUB; USPAT	ADJ	ON	2017/02/14 03:30
S44	15	S40 and (coupled)	US-PGPUB; USPAT	ADJ	ON	2017/02/14 03:35
S45	1	S40 and (router)	US-PGPUB; USPAT	ADJ	ON	2017/02/14 03:36
S46	832	(vehicle or car) with router with (control or server) with network	US-PGPUB; USPAT	ADJ	ON	2017/02/14 03:37
S47	11	(vehicle or car) with router with (control or server) with network with actuator	US-PGPUB; USPAT	ADJ	ON	2017/02/14 03:37
S48	2	"20090198380"	US-PGPUB; USPAT	ADJ	ON	2017/02/14 03:42
S49	1	"20060217840"	US-PGPUB; USPAT	ADJ	ON	2017/02/14 03:42
S50	7	(US-20160062330-$ or US-20090198380-$ or US-20060217840-$ or US-20150295788-$ or US-20160344745-$ or US-20150046582-$ or US-20100030421-$).did.	US-PGPUB	ADJ	ON	2017/02/17 04:34
S51	4	S50 and (actuator with sensor)	US-PGPUB; USPAT	ADJ	ON	2017/02/17 04:34
S52	4	S50 and (actuator)	US-PGPUB; USPAT	ADJ	ON	2017/02/17 04:36
S53	3	"13404575"	US-PGPUB; USPAT	ADJ	ON	2017/02/17 04:38
S54	2	S50 and (sensor with router)	US-PGPUB; USPAT	ADJ	ON	2017/02/17 04:39
S55	27	(US-20130201316-$ or US-20100030421-$ or US-20120303216-$	US-PGPUB; USPAT	ADJ	ON	2017/02/17 04:39

		or US-20140188343-$ or US-20140236384-$ or US-20070076593-$ or US-20100211258-$ or US-20080100428-$ or US-20060111825-$ or US-20100148940-$ or US-20100201516-$ or US-20110035491-$ or US-20150046582-$ or US-20160062330-$ or US-20060217840-$ or US-20090198380-$ or US-20150295788-$ or US-20160344745-$ or US-20120253480-$).did. or (US-8140658-$ or US-7844687-$ or US-7797367-$ or US-7020701-$ or US-6859831-$ or US-6832251-$ or US-6826607-$ or US-6735630-$).did.				
S56	3	S55 and (sensor with router)	US-PGPUB; USPAT	ADJ	ON	2017/02/17 04:39
S57	319	(actuator with sensor with router)	US-PGPUB; USPAT	ADJ	ON	2017/02/17 04:40
S58	178	(actuator NEAR9 sensor NEAr9 router)	US-PGPUB; USPAT	ADJ	ON	2017/02/17 04:40
S59	125	(actuator with sensor with router with (command or signal or transmi$6 or data))	US-PGPUB; USPAT	ADJ	ON	2017/02/17 04:41
S60	7	(US-20160062330-$ or US-20090198380-$ or US-20060217840-$ or US-20150295788-$ or US-20160344745-$ or US-20150046582-$ or US-20100030421-$).did.	US-PGPUB	ADJ	ON	2017/02/17 21:05
S61	2	S60 and (router with (building or vehicle or car))	US-PGPUB; USPAT	ADJ	ON	2017/02/17 21:06
S62	2	S60 and (router with (building or vehicle or car) with sensor)	US-PGPUB; USPAT	ADJ	ON	2017/02/17 21:06
S63	524	(router with (building or vehicle or car) with sensor)	US-PGPUB; USPAT	ADJ	ON	2017/02/17 21:06
S64	96	(router near9 (building or vehicle or car) near5 sensor)	US-PGPUB; USPAT	ADJ	ON	2017/02/17 21:07
S65	28	(router near9 (building or vehicle or car) near9 sensor near9 network)	US-PGPUB; USPAT	ADJ	ON	2017/02/17 21:07
S66	1	(US-20130201316-$).did.	US-PGPUB	ADJ	ON	2017/02/17 21:11
S67	28	(US-20130201316-$ or US-20100030421-$ or US-20120303216-$ or US-20140188343-$ or US-20140236384-$ or US-20070076593-$ or US-20100211258-$ or US-20080100428-$ or US-20060111825-$ or US-20100148940-$ or US-20100201516-$ or US-20110035491-$ or US-20150046582-$ or US-20160062330-$ or US-20060217840-$ or US-20090198380-$ or US-20150295788-$ or US-20160344745-$ or US-20120253480-$ or US-20070283005-$).did. or (US-8140658-$ or US-7844687-$ or US-7797367-$ or US-7020701-$ or US-6859831-$ or US-6832251-$ or US-6826607-$ or US-6735630-$).did.	US-PGPUB; USPAT	ADJ	ON	2017/02/20 05:11

S68	27	S67 and (control with (actuator or sensor))	US-PGPUB; USPAT	ADJ	ON	2017/02/20 05:11
S69	22	S67 and (control NEAR0 (actuator or sensor))	US-PGPUB; USPAT	ADJ	ON	2017/02/20 05:11
S70	26	S67 and (control NEAR9 (actuator or sensor))	US-PGPUB; USPAT	ADJ	ON	2017/02/20 05:11
S71	9	S67 and (command NEAR9 (actuator or sensor))	US-PGPUB; USPAT	ADJ	ON	2017/02/20 05:15
S72	2	(US-20160062330-$ or US-20070283005-$).did.	US-PGPUB	ADJ	ON	2017/02/20 06:05
S73	1	S72 and ((additional or extra or second or third) with sensor)	US-PGPUB	ADJ	ON	2017/02/20 06:29
S74	28	(US-20130201316-$ or US-20100030421-$ or US-20120303216-$ or US-20140188343-$ or US-20140236384-$ or US-20070076593-$ or US-20100211258-$ or US-20080100428-$ or US-20060111825-$ or US-20100148940-$ or US-20100201516-$ or US-20110035491-$ or US-20150046582-$ or US-20160062330-$ or US-20060217840-$ or US-20090198380-$ or US-20150295788-$ or US-20160344745-$ or US-20120253480-$ or US-20070283005-$).did. or (US-8140658-$ or US-7844687-$ or US-7797367-$ or US-7020701-$ or US-6859831-$ or US-6832251-$ or US-6826607-$ or US-6735630-$).did.	US-PGPUB; USPAT	ADJ	ON	2017/02/20 06:30
S75	12	S74 and ((additional or extra or second or third) with sensor)	US-PGPUB	ADJ	ON	2017/02/20 06:31
S76	2	S72 and ((more) with sensor)	US-PGPUB	ADJ	ON	2017/02/20 06:32
S77	5	S74 and piezoelectric	US-PGPUB	ADJ	ON	2017/02/20 06:43
S78	2	S72 and (IP or address or internet or protocol)	US-PGPUB	ADJ	ON	2017/02/20 06:56
S79	2	S74 and (DHCP and (IPv4 or IPv6))	US-PGPUB	ADJ	ON	2017/02/20 07:02
S80	146	(control$6 with (sensor or actuator) with network) and (DHCP and (IPv4 or IPv6))	US-PGPUB	ADJ	ON	2017/02/20 07:04
S81	69	(control$6 with (sensor or actuator) with network) and (DHCP with (IPv4 or IPv6))	US-PGPUB	ADJ	ON	2017/02/20 07:04
S82	1	(US-20130201316-$).did.	US-PGPUB	ADJ	ON	2017/02/20 07:12
S83	36	S81 and zigbee	US-PGPUB	ADJ	ON	2017/02/20 07:21
S84	9	S81 and zigbee and (temperature with sensor)	US-PGPUB	ADJ	ON	2017/02/20 07:22
S85	36	S81 and zigbee and (sensor)	US-PGPUB	ADJ	ON	2017/02/20 07:22
S86	15	S81 and zigbee and (temperature)	US-PGPUB	ADJ	ON	2017/02/20 07:22
S87	12	S81 and zigbee and (temperature) and	US-PGPUB	ADJ	ON	2017/02/20

		(DHCP with assign$6)				07:23
S88	3	(US-20120253480-$ or US-20100071053-$ or US-20070283005-$).did.	US-PGPUB	ADJ	ON	2017/02/21 02:26
S89	1	S88 and (IP with assign$6)	US-PGPUB; USPAT	ADJ	ON	2017/02/21 02:28
S90	3	S88 and (power)	US-PGPUB; USPAT	ADJ	ON	2017/02/21 02:34
S91	32	(US-20130201316-$ or US-20100030421-$ or US-20120303216-$ or US-20140188343-$ or US-20140236384-$ or US-20070076593-$ or US-20100211258-$ or US-20080100428-$ or US-20060111825-$ or US-20100148940-$ or US-20100201516-$ or US-20110035491-$ or US-20150046582-$ or US-20160062330-$ or US-20060217840-$ or US-20090198380-$ or US-20150295788-$ or US-20160344745-$ or US-20120253480-$ or US-20070283005-$ or US-20100071053-$ or US-20130091254-$ or US-20140286348-$ or US-20130091279-$).did. or (US-8140658-$ or US-7844687-$ or US-7797367-$ or US-7020701-$ or US-6859831-$ or US-6832251-$ or US-6826607-$ or US-6735630-$).did.	US-PGPUB; USPAT	ADJ	ON	2017/02/21 02:35
S92	15493	(router with power)	US-PGPUB; USPAT	ADJ	ON	2017/02/21 02:36
S93	2	S91 and (router with power)	US-PGPUB; USPAT	ADJ	ON	2017/02/21 02:36
S94	1606	(router with power with (case or box or inside or enclosure or casing))	US-PGPUB; USPAT	ADJ	ON	2017/02/21 02:36
S95	578	(router NEAR9 power NEAR9 (case or box or inside or enclosure or casing))	US-PGPUB; USPAT	ADJ	ON	2017/02/21 02:37
S96	587	(router NEAR9 power NEAR9 (housed or enclos$5 or case or box or inside or enclosure or casing))	US-PGPUB; USPAT	ADJ	ON	2017/02/21 02:37
S97	17	(router NEAR9 power NEAR9 (housed or enclos$5 or case or box or inside or enclosure or casing) NEAR9 (AC or DC))	US-PGPUB; USPAT	ADJ	ON	2017/02/21 02:37
S98	17	S91 and (light with sensor)	US-PGPUB; USPAT	ADJ	ON	2017/02/21 03:05
S99	0	S88 and (light with (invisible or visible or infrared, ultraviolet, xrays or "x-rays" or (x adj2 rays) or gamma))	US-PGPUB	ADJ	ON	2017/02/21 03:19
S100	5	S91 and (light with (invisible or visible or infrared, ultraviolet, xrays or "x-rays" or (x adj2 rays) or gamma))	US-PGPUB	ADJ	ON	2017/02/21 03:19
S101	5	S91 and (light NEAR9 (invisible or visible or infrared, ultraviolet, xrays or "x-rays" or (x adj2 rays) or gamma))	US-PGPUB	ADJ	ON	2017/02/21 03:20
S102	128	((actuator with light) NEAR9 (invisible or visible or infrared, ultraviolet, xrays or "x-rays" or (x adj2 rays) or	US-PGPUB	ADJ	ON	2017/02/21 03:22

		gamma))				
S103	79	((actuator NEAR5 light) NEAR9 (invisible or visible or infrared, ultraviolet, xrays or "x-rays" or (x adj2 rays) or gamma))	US-PGPUB	ADJ	ON	2017/02/21 03:23
S104	6	(sensor with (actuator NEAR5 light) NEAR9 (invisible or visible or infrared, ultraviolet, xrays or "x-rays" or (x adj2 rays) or gamma))	US-PGPUB	ADJ	ON	2017/02/21 03:23
S105	1	(sensor with (actuator NEAR2 light) NEAR9 (invisible or visible or infrared, ultraviolet, xrays or "x-rays" or (x adj2 rays) or gamma))	US-PGPUB	ADJ	ON	2017/02/21 03:25
S106	21	((actuator NEAR2 light) NEAR9 (invisible or visible or infrared, ultraviolet, xrays or "x-rays" or (x adj2 rays) or gamma))	US-PGPUB	ADJ	ON	2017/02/21 03:25
S107	1	S106 and invisible	US-PGPUB	ADJ	ON	2017/02/21 03:37
S108	1	S106 and (nonvisible or "non-visible" or invisible)	US-PGPUB	ADJ	ON	2017/02/21 03:38
S109	12	S106 and (LED or SSL or (discharge adj2 lamp) or (flourescent adj2 lamp) or PLED or (laser near5 diode))	US-PGPUB	ADJ	ON	2017/02/21 03:50
S110	10	S106 and (diode or SSL or (discharge adj2 lamp) or (flourescent adj2 lamp) or PLED or (laser near5 diode))	US-PGPUB	ADJ	ON	2017/02/21 03:50
S111	10	S106 and (diode or (discharge adj2 lamp) or (flourescent adj2 lamp) or PLED or (laser near5 diode))	US-PGPUB	ADJ	ON	2017/02/21 03:50
S112	4	((actuator NEAR2 light NEAR5 (discharge or emit)) NEAR9 (invisible or visible or infrared, ultraviolet, xrays or "x-rays" or (x adj2 rays) or gamma))	US-PGPUB	ADJ	ON	2017/02/21 05:29
S113	58	(actuator NEAR2 light NEAR5 (discharge or emit))	US-PGPUB	ADJ	ON	2017/02/21 05:30
S114	4	(actuator NEAR2 light NEAR5 (discharge or emit) NEAR9 visible)	US-PGPUB	ADJ	ON	2017/02/21 05:30
S115	5	(actuator NEAR2 light NEAR5 (discharge or emit) with sensor)	US-PGPUB	ADJ	ON	2017/02/21 05:31
S116	1605	((Frequency adj3 Division adj3 Multiplexing) or FDM) with power with (communication or signal or transmission)	US-PGPUB	ADJ	ON	2017/02/21 05:48
S117	1	((Frequency adj3 Division adj3 Multiplexing) or FDM) with power with (communication or signal or transmission) with band with splitter	US-PGPUB	ADJ	ON	2017/02/21 05:48
S118	34	(US-20130201316-$ or US-20100030421-$ or US-20120303216-$ or US-20140188343-$ or US-20140236384-$ or US-20070076593-$ or US-20100211258-$ or US-20080100428-$ or US-20060111825-$ or US-20100148940-$ or US-20100201516-$ or US-20110035491-$ or US-20150046582-$ or US-	US-PGPUB; USPAT	ADJ	ON	2017/02/21 05:54

		20160062330-$ or US-20060217840-$ or US-20090198380-$ or US-20150295788-$ or US-20160344745-$ or US-20120253480-$ or US-20070283005-$ or US-20100071053-$ or US-20130091254-$ or US-20140286348-$ or US-20130091279-$ or US-20030105389-$ or US-20130139440-$).did. or (US-8140658-$ or US-7844687-$ or US-7797367-$ or US-7020701-$ or US-6859831-$ or US-6832251-$ or US-6826607-$ or US-6735630-$).did.				
S119	13	S118 and splitter	US-PGPUB; USPAT	ADJ	ON	2017/02/21 05:54
S120	13	S118 and splitter and frequency	US-PGPUB; USPAT	ADJ	ON	2017/02/21 05:54
S121	1	S118 and (splitter same frequency)	US-PGPUB; USPAT	ADJ	ON	2017/02/21 05:55
S122	234	(power with data with splitter with frequency)	US-PGPUB; USPAT	ADJ	ON	2017/02/21 05:56
S123	1	(US-20130201316-$).did.	US-PGPUB	ADJ	ON	2017/02/21 10:03
S124	462	(high adj2 pass adj2 filter) and (low adj2 pass adj2 filter) and (FDMA or (frequency near5 division near5 multiple near5 access))	US-PGPUB	ADJ	ON	2017/02/21 10:07
S125	261	(high adj2 pass adj2 filter) and (low adj2 pass adj2 filter) and (FDMA or (frequency near5 division near5 multiple near5 access)) and (power near5 (band or frequency))	US-PGPUB	ADJ	ON	2017/02/21 10:08
S126	302	(high adj2 pass adj2 filter) and (low adj2 pass adj2 filter) and (FDMA or (frequency near5 division near5 multiple near5 access)) and (power near5 (band or frequency or channel))	US-PGPUB	ADJ	ON	2017/02/21 10:08
S127	273	(high adj2 pass adj2 filter) and (low adj2 pass adj2 filter) and (FDMA or (frequency near5 division near5 multiple near5 access)) and (power near5 (band or frequency or channel)) and ((data or communication) near5 (channel or band or frequency))	US-PGPUB	ADJ	ON	2017/02/21 10:09
S128	112	(high adj2 pass adj2 filter) and (low adj2 pass adj2 filter) and (FDMA or (frequency near5 division near5 multiple near5 access)) and (power near5 (band or frequency or channel)) and ((data or communication) near5 (channel or band or frequency)) and transformer and capacitor	US-PGPUB	ADJ	ON	2017/02/21 10:10
S129	88	(high adj2 pass adj2 filter) and (low adj2 pass adj2 filter) and (FDMA or (frequency near5 division near5 multiple near5 access)) and (power near5 (band or frequency or channel)) and ((data or communication) near5 (channel or band or frequency)) and	US-PGPUB	ADJ	ON	2017/02/21 10:10

		transformer and capacitor and sensor				
S130	41	(high adj2 pass adj2 filter) and (low adj2 pass adj2 filter) and (FDMA or (frequency near5 division near5 multiple near5 access)) and (power near5 (band or frequency or channel)) and ((data or communication) near5 (channel or band or frequency)) and transformer and capacitor and sensor and (split or splits or splitter)	US-PGPUB	ADJ	ON	2017/02/21 10:13
S131	31	(high adj2 pass adj2 filter) and (low adj2 pass adj2 filter) and (FDMA or (frequency near5 division near5 multiple near5 access)) and (power near5 (band or frequency or channel)) and ((data or communication) near5 (channel or band or frequency)) and (transformer with capacitor with (windings or wirings or coils))	US-PGPUB	ADJ	ON	2017/02/21 10:15
S132	3	(high adj2 pass adj2 filter) and (low adj2 pass adj2 filter) and (FDMA or (frequency near5 division near5 multiple near5 access)) and (power near5 (band or frequency or channel)) and ((data or communication) near5 (channel or band or frequency)) and (transformer with capacitor with (windings or wirings or coils)) and sensor and (split or splits or splitter)	US-PGPUB	ADJ	ON	2017/02/21 10:19
S133	239	(high adj2 pass adj2 filter) and (low adj2 pass adj2 filter) and (FDMA or (frequency near5 division near5 multiple near5 access)) and (power near3 (band or frequency or channel)) and ((data or communication) near5 (channel or band or frequency))	US-PGPUB	ADJ	ON	2017/02/21 10:34
S134	262	(high adj2 pass adj2 filter) and (low adj2 pass adj2 filter) and (FDMA or (frequency near5 division near5 multiple near5 access)) and (power near5 (modula$4 near5 band or frequency or channel)) and ((data or communication) near5 (channel or band or frequency))	US-PGPUB	ADJ	ON	2017/02/21 10:35
S135	45	(high adj2 pass adj2 filter) and (low adj2 pass adj2 filter) and (FDMA or (frequency near5 division near5 multiple near5 access)) and (power near5 modula$4 near5 (band or frequency or channel)) and ((data or communication) near5 (channel or band or frequency))	US-PGPUB	ADJ	ON	2017/02/21 10:35
S136	1	(high adj2 pass adj2 filter) and (low adj2 pass adj2 filter) and (FDMA or (frequency near5 division near5 multiple near5 access)) and (power near5 modula$4 near5 (band or frequenc$4 or channel) near5 (different or distinct or seperate or unique or other or another)) and ((data or communication) near5 (channel or band or frequency))	US-PGPUB	ADJ	ON	2017/02/21 10:51

S137	57	(high adj2 pass adj2 filter) and (low adj2 pass adj2 filter) and (FDMA or (frequency near5 division near5 multiple near5 access)) and (power near5 (band or frequenc$4 or channel) near5 (different or distinct or seperate)) and ((data or communication) near5 (channel or band or frequency))	US-PGPUB	ADJ	ON	2017/02/21 11:00
S138	0	(high adj2 pass adj2 filter) and (low adj2 pass adj2 filter) and (FDMA or (frequency near5 division near5 multiple near5 access)) and (power near5 (band or frequenc$4 or channel) near5 (different or distinct or seperate)) and ((data or communication) near5 (channel or band or frequency)) and (split or splitter or divide) and (transformer with capacitor with (windings or coils))	US-PGPUB	ADJ	ON	2017/02/21 11:01
S139	17	(high adj2 pass adj2 filter) and (low adj2 pass adj2 filter) and (FDMA or (frequency near5 division near5 multiple near5 access)) and (power near5 (band or frequenc$4 or channel) near5 (different or distinct or seperate)) and ((data or communication) near5 (channel or band or frequency)) and (split or splitter or divide) and (transformer with capacitor)	US-PGPUB	ADJ	ON	2017/02/21 11:01
S140	1	(US-20130308581-$).did.	US-PGPUB	ADJ	ON	2017/02/21 11:09
S141	1	(US-20110118888-$).did.	US-PGPUB	ADJ	ON	2017/02/21 11:28
S142	2	(US-20160062330-$ or US-20070283005-$).did.	US-PGPUB	ADJ	ON	2017/02/21 11:49
S143	0	S142 and appliance	US-PGPUB; USPAT	ADJ	ON	2017/02/21 11:49
S144	1	(US-20130201316-$).did.	US-PGPUB	ADJ	ON	2017/02/21 12:06
S145	205	(yehuda and binder).in.	US-PGPUB	ADJ	ON	2017/02/21 12:24
S146	26	(benjamin and maytal).in.	US-PGPUB	ADJ	ON	2017/02/21 12:25
S147	26	(may and patents).as.	US-PGPUB	ADJ	ON	2017/02/21 12:25
S148	25	(may and patents).aanm.	US-PGPUB	ADJ	ON	2017/02/21 12:25
S149	8	S147 and S148	US-PGPUB	ADJ	ON	2017/02/21 12:25
S150	1	S145 and S146	US-PGPUB	ADJ	ON	2017/02/21 12:25
S151	43	S147 or S148	US-PGPUB	ADJ	ON	2017/02/21 12:26
S152	230	S145 or S146	US-PGPUB	ADJ	ON	2017/02/21 12:26

S153	230	S151 or S152	US-PGPUB	ADJ	ON	2017/02/21 12:26
S154	17	S153 and piezoelectric.clm.	US-PGPUB	ADJ	ON	2017/02/21 12:26
S155	1	S153 and (vehicle and router and actuator).clm.	US-PGPUB	ADJ	ON	2017/02/21 12:27
S156	7130	H04L67/12.cpc.	US-PGPUB	ADJ	ON	2017/02/21 12:27
S157	993	348/77.ccls.	US-PGPUB	ADJ	ON	2017/02/21 12:27
S158	374	700/28.ccls.	US-PGPUB	ADJ	ON	2017/02/21 12:27
S159	148	700/22.ccls.	US-PGPUB	ADJ	ON	2017/02/21 12:28
S160	1455	709/218.ccls.	US-PGPUB	ADJ	ON	2017/02/21 12:28
S161	2	"20130080642"	US-PGPUB; USPAT	ADJ	ON	2017/06/30 12:25
S162	1	"14499166"	US-PGPUB; USPAT	ADJ	ON	2017/06/30 12:27
S163	13	(US-20160062330-$ or US-20090198380-$ or US-20150295788-$ or US-20160344745-$ or US-20150046582-$ or US-20100030421-$ or US-20070283005-$ or US-20130308581-$ or US-20110118888-$ or US-20130139440-$ or US-20100071053-$ or US-20030105389-$ or US-20130091279-$).did.	US-PGPUB	ADJ	ON	2017/07/05 10:43
S164	2	S163 and (sensor and actuator and router)	US-PGPUB; USPAT	ADJ	ON	2017/07/05 10:43
S165	36	(US-20130201316-$ or US-20100030421-$ or US-20120303216-$ or US-20140188343-$ or US-20140236384-$ or US-20070076593-$ or US-20100211258-$ or US-20080100428-$ or US-20060111825-$ or US-20100148940-$ or US-20100201516-$ or US-20110035491-$ or US-20150046582-$ or US-20160062330-$ or US-20060217840-$ or US-20090198380-$ or US-20150295788-$ or US-20160344745-$ or US-20120253480-$ or US-20070283005-$ or US-20100071053-$ or US-20130091254-$ or US-20140286348-$ or US-20130091279-$ or US-20030105389-$ or US-20130139440-$).did. or (US-20130308581-$ or US-20110118888-$).did. or (US-8140658-$ or US-7844687-$ or US-7797367-$ or US-7020701-$ or US-6859831-$ or US-6832251-$ or US-6826607-$ or US-6735630-$).did.	US-PGPUB; USPAT	ADJ	ON	2017/07/05 10:44
S166	3	S165 and (sensor and actuator and router)	US-PGPUB; USPAT	ADJ	ON	2017/07/05 10:44
S168	7	S165 and (sensor same network same router)	US-PGPUB; USPAT	ADJ	ON	2017/07/05 10:45

S169	36	(US-20130201316-$ or US-20100030421-$ or US-20120303216-$ or US-20140188343-$ or US-20140236384-$ or US-20070076593-$ or US-20100211258-$ or US-20080100428-$ or US-20060111825-$ or US-20100148940-$ or US-20100201516-$ or US-20110035491-$ or US-20150046582-$ or US-20160062330-$ or US-20060217840-$ or US-20090198380-$ or US-20150295788-$ or US-20160344745-$ or US-20120253480-$ or US-20070283005-$ or US-20100071053-$ or US-20130091254-$ or US-20140286348-$ or US-20130091279-$ or US-20030105389-$ or US-20130139440-$).did. or (US-20130308581-$ or US-20110118888-$).did. or (US-8140658-$ or US-7844687-$ or US-7797367-$ or US-7020701-$ or US-6859831-$ or US-6832251-$ or US-6826607-$ or US-6735630-$).did.	US-PGPUB; USPAT	ADJ	ON	2017/07/05 11:20
S170	7	S169 and (sensor same network same router)	US-PGPUB; USPAT	ADJ	ON	2017/07/05 11:20
S171	3	S170 and actuator	US-PGPUB; USPAT	ADJ	ON	2017/07/05 11:20
S172	24	S169 and actuator	US-PGPUB; USPAT	ADJ	ON	2017/07/05 11:21
S173	2	(US-20160062330-$ or US-20070283005-$).did.	US-PGPUB	OR	OFF	2017/07/19 19:14
S174	1	(US-20130201316-$).did.	US-PGPUB	OR	OFF	2017/07/20 00:24
S175	1	"20120079149"	US-PGPUB	OR	OFF	2017/07/20 00:29
S176	1	"20120079149"	US-PGPUB	OR	OFF	2017/07/20 06:37
S177	1	S176 and ((sensor or actuator) with router)	US-PGPUB	OR	OFF	2017/07/20 06:37
S178	1	S176 and (router)	US-PGPUB	OR	OFF	2017/07/20 06:37
S179	0	S176 and (commands with router)	US-PGPUB	OR	OFF	2017/07/20 06:41
S180	37	(US-20130201316-$ or US-20100030421-$ or US-20120303216-$ or US-20140188343-$ or US-20140236384-$ or US-20070076593-$ or US-20100211258-$ or US-20080100428-$ or US-20060111825-$ or US-20100148940-$ or US-20100201516-$ or US-20110035491-$ or US-20150046582-$ or US-20160062330-$ or US-20060217840-$ or US-20090198380-$ or US-20150295788-$ or US-20160344745-$ or US-20120253480-$ or US-20070283005-$ or US-20100071053-$ or US-20130091254-$ or US-20140286348-$ or US-20130091279-$	US-PGPUB; USPAT	OR	OFF	2017/07/20 06:41

		or US-20030105389-$ or US-20130139440-$).did. or (US-20130308581-$ or US-20110118888-$ or US-20120079149-$).did. or (US-8140658-$ or US-7844687-$ or US-7797367-$ or US-7020701-$ or US-6859831-$ or US-6832251-$ or US-6826607-$ or US-6735630-$).did.				
S181	1	S180 and (commands with router)	US-PGPUB	OR	OFF	2017/07/20 06:41
S182	2	(actuator with commands with router)	US-PGPUB	OR	OFF	2017/07/20 06:42
S183	25	(sensor with commands with router)	US-PGPUB	OR	OFF	2017/07/20 06:42
S184	9	(sensor NEAR9 commands NEAR9 router)	US-PGPUB	OR	OFF	2017/07/20 06:42
S185	3	S184 and actuator	US-PGPUB	OR	OFF	2017/07/20 06:54
S186	3	(US-20160062330-$ or US-20100071053-$ or US-20070283005-$).did.	US-PGPUB	OR	OFF	2017/07/20 09:43
S192	3	(US-20160062330-$ or US-20100071053-$ or US-20070283005-$).did.	US-PGPUB	OR	OFF	2017/07/20 09:45
S193	3	S192 and address	US-PGPUB	OR	OFF	2017/07/20 09:45
S194	0	S192 and ((unique or individual or distinct or separate) with address)	US-PGPUB	OR	OFF	2017/07/20 09:46
S195	14	(US-20160062330-$ or US-20090198380-$ or US-20150295788-$ or US-20160344745-$ or US-20150046582-$ or US-20100030421-$ or US-20070283005-$ or US-20130308581-$ or US-20110118888-$ or US-20130139440-$ or US-20100071053-$ or US-20030105389-$ or US-20130091279-$ or US-20120079149-$).did.	US-PGPUB	OR	OFF	2017/07/20 12:16
S200	14	(US-20160062330-$ or US-20090198380-$ or US-20150295788-$ or US-20160344745-$ or US-20150046582-$ or US-20100030421-$ or US-20070283005-$ or US-20130308581-$ or US-20110118888-$ or US-20130139440-$ or US-20100071053-$ or US-20030105389-$ or US-20130091279-$ or US-20120079149-$).did.	US-PGPUB	OR	OFF	2017/07/20 12:17
S201	12	S200 and power	US-PGPUB	OR	OFF	2017/07/20 12:17
S202	2	S200 and (power with (socket or port or connector))	US-PGPUB	OR	OFF	2017/07/20 12:17
S203	3	S200 and (power with (AC or DC))	US-PGPUB	OR	OFF	2017/07/20 12:18
S204	1	(US-20130201316-$).did.	US-PGPUB	OR	OFF	2017/07/20 12:23
S205	0	S204 and medical	USPAT	OR	OFF	2017/07/20 12:23

S206	0	S204 and medicine	USPAT	OR	OFF	2017/07/20 12:23
S207	0	S204 and power	USPAT	OR	OFF	2017/07/20 12:23
S208	0	S204 and actuator	USPAT	OR	OFF	2017/07/20 12:23
S209	14	S200 and sensor	US-PGPUB	OR	OFF	2017/07/20 12:23
S210	12	S200 and power	US-PGPUB	OR	OFF	2017/07/20 12:23
S212	1	S204 and medical	US-PGPUB	OR	OFF	2017/07/20 12:23
S213	5	S201 and (AC or DC)	US-PGPUB	OR	OFF	2017/07/20 12:27
S214	1	(US-20130201316-$).did.	US-PGPUB	OR	OFF	2017/07/20 14:03
S215	14	(US-20160062330-$ or US-20090198380-$ or US-20150295788-$ or US-20160344745-$ or US-20150046582-$ or US-20100030421-$ or US-20070283005-$ or US-20130308581-$ or US-20110118888-$ or US-20130139440-$ or US-20100071053-$ or US-20030105389-$ or US-20130091279-$ or US-20120079149-$).did.	US-PGPUB	OR	OFF	2017/07/20 15:03
S220	14	(US-20160062330-$ or US-20090198380-$ or US-20150295788-$ or US-20160344745-$ or US-20150046582-$ or US-20100030421-$ or US-20070283005-$ or US-20130308581-$ or US-20110118888-$ or US-20130139440-$ or US-20100071053-$ or US-20030105389-$ or US-20130091279-$ or US-20120079149-$).did.	US-PGPUB	OR	OFF	2017/07/20 15:05
S225	5	S220 and battery	US-PGPUB	OR	OFF	2017/07/20 15:06
S226	12	S220 and network	US-PGPUB	OR	OFF	2017/07/20 15:06
S227	3	S220 and (data with paths)	US-PGPUB	OR	OFF	2017/07/20 15:06
S228	2	S220 and (router with port)	US-PGPUB	OR	OFF	2017/07/20 15:16
S229	8	S220 and (embed or embedded or inside)	US-PGPUB	OR	OFF	2017/07/20 15:40
S230	2	S220 and ((embed or embedded or inside) with router)	US-PGPUB	OR	OFF	2017/07/20 15:49
S231	5	S220 and ((embed or embedded or inside) with sensor)	US-PGPUB	OR	OFF	2017/07/20 15:50
S232	5	S220 and ((embed or embedded or inside or contained) with sensor)	US-PGPUB	OR	OFF	2017/07/20 15:51
S233	2	S220 and ((embed or embedded or inside or contained) with router)	US-PGPUB	OR	OFF	2017/07/20 15:51
S234	5	S220 and ((router or sensor) with integrat$4)	US-PGPUB	OR	OFF	2017/07/20 15:51

S235	12	S220 and (embedded or embed or integrat$4)	US-PGPUB	OR	OFF	2017/07/20 15:56
S236	13	(US-20160062330-$ or US-20090198380-$ or US-20150295788-$ or US-20160344745-$ or US-20150046582-$ or US-20100030421-$ or US-20070283005-$ or US-20130308581-$ or US-20110118888-$ or US-20130139440-$ or US-20100071053-$ or US-20030105389-$ or US-20130091279-$).did.	US-PGPUB	OR	OFF	2017/07/20 19:05
S242	13	S236 and device	US-PGPUB	OR	OFF	2017/07/20 19:06
S243	0	S236 and (routing with phone)	US-PGPUB	OR	OFF	2017/07/20 19:08
S244	2	S236 and (router with phone)	US-PGPUB	OR	OFF	2017/07/20 19:08
S245	1	(US-20130201316-$).did.	US-PGPUB	OR	OFF	2017/07/20 19:22
S246	1	S245 and actuator	US-PGPUB	OR	OFF	2017/07/20 19:22
S247	1063	ISM near2 radio near2 band	US-PGPUB	OR	OFF	2017/07/20 19:44
S248	496	industrial near3 scientific near3 radio near3 band	US-PGPUB	OR	OFF	2017/07/20 19:44
S249	1	(industrial near3 scientific near3 radio near3 band) near5 WAN	US-PGPUB	OR	OFF	2017/07/20 19:45
S250	3	(industrial near3 scientific near3 radio near3 band) with WAN	US-PGPUB	OR	OFF	2017/07/20 19:46
S251	0	(industrial near3 scientific near3 radio near3 band) near5 internet	US-PGPUB	OR	OFF	2017/07/20 19:46
S252	14	(industrial near3 scientific near3 radio near3 band) near5 network	US-PGPUB	OR	OFF	2017/07/20 19:46
S253	1	S236 and (WAN with antenna)	US-PGPUB	OR	OFF	2017/07/20 19:56
S254	1	S236 and (WAN with modem)	US-PGPUB	OR	OFF	2017/07/20 19:59
S255	1	(US-20130201316-$).did.	US-PGPUB	OR	OFF	2017/07/20 20:19
S256	157	(BINDER and Yehuda).in.	USPAT	OR	OFF	2017/07/20 20:26
S257	10	(MAYTAL and Benjamin).in.	USPAT	OR	OFF	2017/07/20 20:26
S258	4181	H04L67/12.cpc.	USPAT	OR	OFF	2017/07/20 20:27
S259	41	(B60Y2200/30 G06Q2240/00).cpc.	USPAT	OR	OFF	2017/07/20 20:29
S260	41	(B60Y2200/30 or G06Q2240/00).cpc.	USPAT	OR	OFF	2017/07/20 20:29
S261	15	(B60Y2200/30).cpc.	USPAT	OR	OFF	2017/07/20 20:29
S262	26	(G06Q2240/00).cpc.	USPAT	OR	OFF	2017/07/20 20:29
S263	5119	(G01C21/00 or B60Y2200/90 or B60Y2200/50 or B60Y2200/40 or	USPAT	OR	OFF	2017/07/20 20:31

		G08G1/00 or B60Y2200/13 or B60Y2200/126 or B60Y2200/12 or B60Y2200/11 or B60K31/18 or B60K31/00 or G07C5/008).cpc.				
S264	10730	(348/77 or 348/143 or 370/276 or 700/22 or 700/28 or 701/2 or 701/31.4 or 709/218).ccls.	USPAT	OR	OFF	2017/07/20 20:33
S265	11	(may and patents).as.	USPAT	OR	OFF	2017/07/20 20:33
S266	6	(may and patents).aanm.	USPAT	OR	OFF	2017/07/20 20:34
S267	0	"15657163"	US-PGPUB; USPAT	ADJ	ON	2017/09/18 11:52
S268	11	(US-20160062330-$ or US-20090198380-$ or US-20160344745-$ or US-20150046582-$ or US-20070283005-$ or US-20130308581-$ or US-20100071053-$ or US-20030105389-$ or US-20130091279-$ or US-20090224906-$ or US-20120079149-$).did.	US-PGPUB	OR	ON	2017/09/18 12:22
S269	7	S268 and voice	US-PGPUB; USPAT	OR	ON	2017/09/18 12:22
S270	8	S268 and (audio or human)	US-PGPUB; USPAT	OR	ON	2017/09/18 12:23
S271	42	(US-20130201316-$ or US-20100030421-$ or US-20120303216-$ or US-20140188343-$ or US-20140236384-$ or US-20070076593-$ or US-20100211258-$ or US-20080100428-$ or US-20060111825-$ or US-20100148940-$ or US-20100201516-$ or US-20110035491-$ or US-20150046582-$ or US-20160062330-$ or US-20060217840-$ or US-20090198380-$ or US-20150295788-$ or US-20160344745-$ or US-20120253480-$ or US-20070283005-$ or US-20100071053-$ or US-20130091254-$ or US-20140286348-$ or US-20130091279-$ or US-20030105389-$ or US-20130139440-$).did. or (US-20130308581-$ or US-20110118888-$ or US-20120079149-$ or US-20080031139-$ or US-20080068156-$ or US-20080307075-$ or US-20170111158-$ or US-20090224906-$).did. or (US-8140658-$ or US-7844687-$ or US-7797367-$ or US-7020701-$ or US-6859831-$ or US-6832251-$ or US-6826607-$ or US-6735630-$).did.	US-PGPUB; USPAT	OR	ON	2017/09/18 12:24
S272	25	S271 and voice	US-PGPUB; USPAT	OR	ON	2017/09/18 12:25
S273	2	S271 and ((mic or microphone) with voice)	US-PGPUB; USPAT	OR	ON	2017/09/18 12:27
S274	31	S271 and (person or human)	US-PGPUB; USPAT	OR	ON	2017/09/18 12:38
S275	17	(control$4 or operat$4) with (actuator	US-PGPUB;	OR	ON	2017/09/18

		with (human) with voice)	USPAT			12:43
S276	7612	(control$4 or operat$4) with (actuator with voice)	US-PGPUB; USPAT	OR	ON	2017/09/18 12:55
S277	5	(control$4 or operat$4) NEAR9 (actuator with voice) NEAR9 network	US-PGPUB; USPAT	OR	ON	2017/09/18 12:55
S278	10	2009/0089065	US-PGPUB; USPAT	OR	ON	2017/09/19 13:03
S279	2	"20090089065"	US-PGPUB; USPAT	OR	ON	2017/09/19 13:03
S280	13	(US-20160062330-$ or US-20090198380-$ or US-20160344745-$ or US-20150046582-$ or US-20070283005-$ or US-20130308581-$ or US-20100071053-$ or US-20030105389-$ or US-20130091279-$ or US-20090224906-$ or US-20120079149-$ or US-20080307075-$ or US-20090089065-$).did.	US-PGPUB	OR	ON	2017/09/19 13:12
S281	6	S280 and building	US-PGPUB; USPAT	OR	ON	2017/09/19 13:12
S282	0	"15657163"	US-PGPUB; USPAT	OR	ON	2017/09/19 13:13
S286	2	"13733634"	US-PGPUB; USPAT	ADJ	ON	2017/09/19 13:13
S287	0	S286 and (client adj2 device)	US-PGPUB; USPAT	ADJ	ON	2017/09/19 13:13
S288	5	S280 and ((speech or voice) with (command$4 or control$4))	US-PGPUB; USPAT	OR	ON	2017/09/19 13:17
S289	13	(US-20160062330-$ or US-20090198380-$ or US-20160344745-$ or US-20150046582-$ or US-20070283005-$ or US-20130308581-$ or US-20100071053-$ or US-20030105389-$ or US-20130091279-$ or US-20090224906-$ or US-20120079149-$ or US-20080307075-$ or US-20090089065-$).did.	US-PGPUB	OR	ON	2017/09/27 04:43
S290	7	S289 and (mic or microphone)	US-PGPUB; USPAT	OR	ON	2017/09/27 04:43
S291	13	(US-20160062330-$ or US-20090198380-$ or US-20160344745-$ or US-20150046582-$ or US-20070283005-$ or US-20130308581-$ or US-20100071053-$ or US-20030105389-$ or US-20130091279-$ or US-20090224906-$ or US-20120079149-$ or US-20080307075-$ or US-20090089065-$).did.	US-PGPUB	OR	ON	2017/09/28 01:25
S292	7	S291 and (mic or microphone or micro$1phone)	US-PGPUB; USPAT	OR	ON	2017/09/28 01:25
S293	43	(US-20130201316-$ or US-20100030421-$ or US-20120303216-$ or US-20140188343-$ or US-20140236384-$ or US-20070076593-$ or US-20100211258-$ or US-20080100428-$ or US-20060111825-$ or US-20100148940-$ or US-20100201516-$ or US-20110035491-$	US-PGPUB; USPAT	OR	ON	2017/09/28 08:46

		or US-20150046582-$ or US-20160062330-$ or US-20060217840-$ or US-20090198380-$ or US-20150295788-$ or US-20160344745-$ or US-20120253480-$ or US-20070283005-$ or US-20100071053-$ or US-20130091254-$ or US-20140286348-$ or US-20130091279-$ or US-20030105389-$ or US-20130139440-$).did. or (US-20130308581-$ or US-20110118888-$ or US-20120079149-$ or US-20080031139-$ or US-20080068156-$ or US-20080307075-$ or US-20170111158-$ or US-20090224906-$ or US-20090089065-$).did. or (US-8140658-$ or US-7844687-$ or US-7797367-$ or US-7020701-$ or US-6859831-$ or US-6832251-$ or US-6826607-$ or US-6735630-$).did.				
S294	3281126	S293 and ("same" NEAR4 device) or inside	US-PGPUB; USPAT	OR	ON	2017/09/28 08:46
S295	3281126	S293 and ("same" NEAR4 device) or inside	US-PGPUB; USPAT	OR	ON	2017/09/28 08:46
S296	28	S293 and (("same" NEAR4 device) or inside)	US-PGPUB; USPAT	OR	ON	2017/09/28 08:47
S297	13	(US-20160062330-$ or US-20090198380-$ or US-20160344745-$ or US-20150046582-$ or US-20070283005-$ or US-20130308581-$ or US-20100071053-$ or US-20030105389-$ or US-20130091279-$ or US-20090224906-$ or US-20120079149-$ or US-20080307075-$ or US-20090089065-$).did.	US-PGPUB	OR	ON	2017/09/28 08:51
S298	5	S297 and actuator	US-PGPUB; USPAT	OR	ON	2017/09/28 08:51
S299	7	S297 and algorithm	US-PGPUB; USPAT	OR	ON	2017/09/28 09:06
S300	13	S297 and sensor	US-PGPUB; USPAT	OR	ON	2017/09/28 09:28
S301	3	S297 and (sensor with light)	US-PGPUB; USPAT	OR	ON	2017/09/28 09:39
S302	3	(US-20070283005-$ or US-20090089065-$ or US-20150046582-$).did.	US-PGPUB	OR	ON	2017/09/29 04:46
S303	1	S302 and (actuator with physical)	US-PGPUB; USPAT	OR	ON	2017/09/29 04:47
S304	2	S302 and (actuator)	US-PGPUB; USPAT	OR	ON	2017/09/29 04:47
S305	13	(US-20160062330-$ or US-20090198380-$ or US-20160344745-$ or US-20150046582-$ or US-20070283005-$ or US-20130308581-$ or US-20100071053-$ or US-20030105389-$ or US-20130091279-$ or US-20090224906-$ or US-20120079149-$ or US-20080307075-$ or US-20090089065-$).did.	US-PGPUB	OR	ON	2017/09/29 04:53

S306	7	S305 and (mic or microphones)	US-PGPUB; USPAT	OR	ON	2017/09/29 04:53
S307	10	S305 and (address)	US-PGPUB; USPAT	OR	ON	2017/09/29 05:22
S308	6	S305 and (zigbee)	US-PGPUB; USPAT	OR	ON	2017/09/29 05:30
S309	5	S305 and ("802.11")	US-PGPUB; USPAT	OR	ON	2017/09/29 05:33
S310	4	S305 and (ISM)	US-PGPUB; USPAT	OR	ON	2017/09/29 05:45
S311	2	S305 and (CDMA)	US-PGPUB; USPAT	OR	ON	2017/09/29 05:48
S312	3	S305 and (UMTS or GSM)	US-PGPUB; USPAT	OR	ON	2017/09/29 05:49
S313	8	S305 and cellular	US-PGPUB; USPAT	OR	ON	2017/09/29 05:49
S314	6	S305 and (HSPA or LTE or MBWA or "802.2" or GSM or WiMax)	US-PGPUB; USPAT	OR	ON	2017/09/29 05:54
S315	1	S305 and (applicance or freezer or refrigerator or food or beverage or coffee or tea or cooker or oven)	US-PGPUB; USPAT	OR	ON	2017/09/29 06:23
S316	43	(US-20130201316-$ or US-20100030421-$ or US-20120303216-$ or US-20140188343-$ or US-20140236384-$ or US-20070076593-$ or US-20100211258-$ or US-20080100428-$ or US-20060111825-$ or US-20100148940-$ or US-20100201516-$ or US-20110035491-$ or US-20150046582-$ or US-20160062330-$ or US-20060217840-$ or US-20090198380-$ or US-20150295788-$ or US-20160344745-$ or US-20120253480-$ or US-20070283005-$ or US-20100071053-$ or US-20130091254-$ or US-20140286348-$ or US-20130091279-$ or US-20030105389-$ or US-20130139440-$).did. or (US-20130308581-$ or US-20110118888-$ or US-20120079149-$ or US-20080031139-$ or US-20080068156-$ or US-20080307075-$ or US-20170111158-$ or US-20090224906-$ or US-20090089065-$).did. or (US-8140658-$ or US-7844687-$ or US-7797367-$ or US-7020701-$ or US-6859831-$ or US-6832251-$ or US-6826607-$ or US-6735630-$).did.	US-PGPUB; USPAT	OR	ON	2017/09/29 06:26
S317	14	S316 and (applicance or freezer or refrigerator or food or beverage or coffee or tea or cooker or oven)	US-PGPUB; USPAT	OR	ON	2017/09/29 06:26
S318	1015	network with sensor with (applicance or freezer or refrigerator or food or beverage or coffee or tea or cooker or oven)	US-PGPUB; USPAT	OR	ON	2017/09/29 06:28
S319	22	S316 and (appliance or freezer or refrigerator or food or beverage or coffee or tea or cooker or oven)	US-PGPUB; USPAT	OR	ON	2017/09/29 06:28

S320	21	S316 and (appliance or kitchen)	US-PGPUB; USPAT	OR	ON	2017/09/29 06:29
S321	3	S316 and (kitchen)	US-PGPUB; USPAT	OR	ON	2017/09/29 06:29
S322	12	(control$4) with network with kitchen with appliance with (speech or voice)	US-PGPUB; USPAT	OR	ON	2017/09/29 06:33
S323	1	(US-20170272316-$).did.	US-PGPUB	OR	ON	2017/09/29 06:36
S324	12	(US-20160062330-$ or US-20090198380-$ or US-20150046582-$ or US-20070283005-$ or US-20130308581-$ or US-20100071053-$ or US-20030105389-$ or US-20130091279-$ or US-20090224906-$ or US-20080307075-$ or US-20090089065-$ or US-20170272316-$).did.	US-PGPUB	OR	ON	2017/09/29 08:34
S325	3	S324 and (infrared or infra$1red or gamma or xrays or x$1rays)	US-PGPUB; USPAT	OR	ON	2017/09/29 08:34
S326	0	S324 and (actuat$4 with motion)	US-PGPUB; USPAT	OR	ON	2017/09/29 08:40
S327	4	S324 and (actuat$4)	US-PGPUB; USPAT	OR	ON	2017/09/29 08:41
S328	2	S324 and (actuat$4 with (sound or noise or volume or radio or music))	US-PGPUB; USPAT	OR	ON	2017/09/29 08:49
S329	2	S324 and (actuat$4 with (sound or noise or volume or audio or radio or music))	US-PGPUB; USPAT	OR	ON	2017/09/29 08:49
S330	4	S324 and (actuat$4 same (sound or noise or volume or audio or radio or music))	US-PGPUB; USPAT	OR	ON	2017/09/29 08:49
S331	0	"15657163"	US-PGPUB; USPAT	OR	ON	2017/09/29 09:02
S332	5777	709/218.ccls.	US-PGPUB; USPAT	OR	ON	2017/09/29 09:03
S333	12682	H04L67/12.cpc.	US-PGPUB; USPAT	OR	ON	2017/09/29 09:03
S334	25214	B60K 31/00.cpc.	US-PGPUB; USPAT	OR	ON	2017/09/29 09:04
S335	25214	B60K 31/18.cpc.	US-PGPUB; USPAT	OR	ON	2017/09/29 09:04
S336	288	B60Y2200/11.cpc.	US-PGPUB; USPAT	OR	ON	2017/09/29 09:04
S337	862	B60Y2200/12.cpc.	US-PGPUB; USPAT	OR	ON	2017/09/29 09:04
S338	194	B60Y2200/126.cpc.	US-PGPUB; USPAT	OR	ON	2017/09/29 09:04
S339	313	B60Y2200/13.cpc.	US-PGPUB; USPAT	OR	ON	2017/09/29 09:05
S340	35	B60Y2200/30.cpc.	US-PGPUB; USPAT	OR	ON	2017/09/29 09:05
S341	110	B60Y2200/40.cpc.	US-PGPUB; USPAT	OR	ON	2017/09/29 09:05
S342	13	B60Y2200/50.cpc.	US-PGPUB; USPAT	OR	ON	2017/09/29 09:05

S343	91	B60Y2200/90.cpc.	US-PGPUB; USPAT	OR	ON	2017/09/29 09:05
S344	36907	G01C 21/00.cpc.	US-PGPUB; USPAT	OR	ON	2017/09/29 09:05
S345	155	G06Q2240/00.cpc.	US-PGPUB; USPAT	OR	ON	2017/09/29 09:05
S346	9132	G07C 5/008.cpc.	US-PGPUB; USPAT	OR	ON	2017/09/29 09:05
S348	15985	G08G 1/00.cpc.	US-PGPUB; USPAT	OR	ON	2017/09/29 09:05
S349	40	(may and patents).as.	US-PGPUB; USPAT	OR	ON	2017/09/29 09:07
S350	42	(may and patents).aanm.	US-PGPUB; USPAT	OR	ON	2017/09/29 09:07
S351	381	(binder and yehuda).in.	US-PGPUB; USPAT	OR	ON	2017/09/29 09:07
S352	39	(maytal and benjamin).in.	US-PGPUB; USPAT	OR	ON	2017/09/29 09:07
S353	13516	H04L67/12.cpc.	US-PGPUB; USPAT	OR	ON	2018/01/19 19:43
S354	5776	709/218.ccls..	US-PGPUB; USPAT	OR	ON	2018/01/19 19:43
S355	41	(maytal and benjamin).in.	US-PGPUB; USPAT	OR	ON	2018/01/19 19:43
S356	387	(binder and yehuda).in.	US-PGPUB; USPAT	OR	ON	2018/01/19 19:43
S357	48	(may and patents).aanm.	US-PGPUB; USPAT	OR	ON	2018/01/19 19:43
S358	44	(may and patents).as.	US-PGPUB; USPAT	OR	ON	2018/01/19 19:43
S359	0	(fire and eye).aanm.	US-PGPUB; USPAT	ADJ	ON	2018/01/19 19:44
S360	140	(fireeye).as.	US-PGPUB; USPAT	ADJ	ON	2018/01/19 19:44
S361	113	(fireeye).aanm.	US-PGPUB; USPAT	ADJ	ON	2018/01/19 19:44
S362	1	(US-20130201316-$).did.	US-PGPUB	ADJ	ON	2018/01/19 19:44
S363	674	(home with network) same sensor same gateway same network	US-PGPUB	ADJ	ON	2018/01/19 19:44
S364	293	(home with network) with sensor with gateway	US-PGPUB	ADJ	ON	2018/01/19 19:44
S365	5	(home with network) with sensor with gateway with command	US-PGPUB	ADJ	ON	2018/01/19 19:44
S366	22	(US-20130201316-$ or US-20100030421-$ or US-20120303216-$ or US-20140188343-$ or US-20140236384-$ or US-20070076593-$ or US-20100211258-$ or US-20080100428-$ or US-20060111825-$ or US-20100148940-$ or US-20100201516-$ or US-20110035491-$ or US-20150046582-$ or US-20160062330-$).did. or (US-8140658-$ or US-7844687-$ or US-7797367-$ or US-7020701-$ or US-6859831-$ or	US-PGPUB; USPAT	ADJ	ON	2018/01/19 19:44

		US-6832251-$ or US-6826607-$ or US-6735630-$).did.				
S367	21	S366 and (vehicle or vehical or automobile or car)	US-PGPUB; USPAT	ADJ	ON	2018/01/19 19:44
S368	21	S366 and (vehicle or vehical or automobile or car) and actuator	US-PGPUB; USPAT	ADJ	ON	2018/01/19 19:44
S369	15	S366 and (vehicle or vehical or automobile or car) and actuator and sensor and network and cellular and wireless	US-PGPUB; USPAT	ADJ	ON	2018/01/19 19:44
S370	15	S366 and (coupled)	US-PGPUB; USPAT	ADJ	ON	2018/01/19 19:44
S371	1	S366 and (router)	US-PGPUB; USPAT	ADJ	ON	2018/01/19 19:44
S372	1030	(vehicle or car) with router with (control or server) with network	US-PGPUB; USPAT	ADJ	ON	2018/01/19 19:44
S373	18	(vehicle or car) with router with (control or server) with network with actuator	US-PGPUB; USPAT	ADJ	ON	2018/01/19 19:44
S374	2	"20090198380"	US-PGPUB; USPAT	ADJ	ON	2018/01/19 19:44
S375	1865	S359 S360 S361 S362 S363 S364 S365 S366 S367 S368 S369 S370 S371 S372 S373 S374	US-PGPUB; USPAT	OR	ON	2018/01/19 19:44
S376	13516	H04L67/12.cpc.	US-PGPUB; USPAT	OR	ON	2018/01/19 19:45
S377	27138	B60K 31/00.cpc.	US-PGPUB; USPAT	OR	ON	2018/01/19 19:45
S378	27138	B60K 31/18.cpc.	US-PGPUB; USPAT	OR	ON	2018/01/19 19:45
S379	293	B60Y2200/11.cpc.	US-PGPUB; USPAT	OR	ON	2018/01/19 19:45
S380	889	B60Y2200/12.cpc.	US-PGPUB; USPAT	OR	ON	2018/01/19 19:45
S381	202	B60Y2200/126.cpc.	US-PGPUB; USPAT	OR	ON	2018/01/19 19:45
S382	329	B60Y2200/13.cpc.	US-PGPUB; USPAT	OR	ON	2018/01/19 19:45
S383	37	B60Y2200/30.cpc.	US-PGPUB; USPAT	OR	ON	2018/01/19 19:45
S384	113	B60Y2200/40.cpc.	US-PGPUB; USPAT	OR	ON	2018/01/19 19:45
S385	17	B60Y2200/50.cpc.	US-PGPUB; USPAT	OR	ON	2018/01/19 19:45
S386	94	B60Y2200/90.cpc.	US-PGPUB; USPAT	OR	ON	2018/01/19 19:45
S387	38949	G01C 21/00.cpc.	US-PGPUB; USPAT	OR	ON	2018/01/19 19:45
S388	183	G06Q2240/00.cpc.	US-PGPUB; USPAT	OR	ON	2018/01/19 19:45
S389	10308	G07C 5/008.cpc.	US-PGPUB; USPAT	OR	ON	2018/01/19 19:45
S390	44418	G08G 1/00	US-PGPUB; USPAT	OR	ON	2018/01/19 19:45

S391	17401	G08G 1/00.cpc.	US-PGPUB; USPAT	OR	ON	2018/01/19 19:45
S392	127924	S376 S377 S378 S379 S380 S381 S382 S383 S384 S385 S386 S387 S388 S389 S390 S391	US-PGPUB; USPAT	OR	ON	2018/01/19 19:45
S393	2	"15657163"	US-PGPUB; USPAT	ADJ	ON	2018/06/15 17:22
S394	1	(US-20170331899-$).did.	US-PGPUB	OR	OFF	2018/06/15 17:22
S395	1	(US-20170331899-$).did.	US-PGPUB	OR	OFF	2018/06/17 15:00
S396	1	S395 and (voice with algorithm)	US-PGPUB	OR	OFF	2018/06/17 15:00
S397	1	(US-20170331899-$).did.	US-PGPUB	OR	OFF	2018/06/17 16:04
S398	1	S397 and (sensor with convection)	US-PGPUB	OR	OFF	2018/06/17 16:04
S399	12	(US-20160062330-$ or US-20090198380-$ or US-20150046582-$ or US-20070283005-$ or US-20130308581-$ or US-20100071053-$ or US-20030105389-$ or US-20130091279-$ or US-20090224906-$ or US-20080307075-$ or US-20090089065-$ or US-20170272316-$).did.	US-PGPUB	OR	OFF	2018/06/18 06:55
S400	0	S399 and (voice or audio)	USPAT	OR	OFF	2018/06/18 06:55
S401	0	S399 and (voice or audio)	USPAT	OR	ON	2018/06/18 06:55
S402	0	S399 and (voice or audio)	USPAT	OR	OFF	2018/06/18 06:55
S403	0	S399 and audio	USPAT	OR	OFF	2018/06/18 06:56
S404	0	S399 and (voice or audio)	USPAT	OR	OFF	2018/06/18 06:56
S405	9	S399 and (voice or audio)	US-PGPUB; USPAT	OR	OFF	2018/06/18 06:56
S406	5	S399 and ((voice or audio or speech) with (command or control))	US-PGPUB; USPAT	OR	OFF	2018/06/18 06:58
S407	6	S399 and (mic or microphone)	US-PGPUB; USPAT	OR	OFF	2018/06/18 07:02
S408	42	(US-20130201316-$ or US-20100030421-$ or US-20120303216-$ or US-20140188343-$ or US-20140236384-$ or US-20070076593-$ or US-20100211258-$ or US-20080100428-$ or US-20060111825-$ or US-20100148940-$ or US-20100201516-$ or US-20110035491-$ or US-20150046582-$ or US-20160062330-$ or US-20060217840-$ or US-20090198380-$ or US-20150295788-$ or US-20120253480-$ or US-20070283005-$ or US-20100071053-$ or US-20130091254-$ or US-20140286348-$ or US-20130091279-$ or US-20030105389-$	US-PGPUB; USPAT	OR	OFF	2018/06/18 07:16

		or US-20130139440-$ or US-20130308581-$).did. or (US-20110118888-$ or US-20080031139-$ or US-20080068156-$ or US-20080307075-$ or US-20170111158-$ or US-20090224906-$ or US-20090089065-$ or US-20170272316-$).did. or (US-8140658-$ or US-7844687-$ or US-7797367-$ or US-7020701-$ or US-6859831-$ or US-6832251-$ or US-6826607-$ or US-6735630-$).did.				
S409	18	S408 and (mic or microphone)	US-PGPUB; USPAT	OR	OFF	2018/06/18 07:16
S410	7	S408 and ((voice or audio or speech) with (command or control))	US-PGPUB; USPAT	OR	OFF	2018/06/18 07:16
S411	5	S408 and ((voice or audio or speech) NEAR9 (command or control))	US-PGPUB; USPAT	OR	OFF	2018/06/18 07:17
S412	0	S408 and ((speech with control with process) same (external with server))	US-PGPUB; USPAT	OR	OFF	2018/06/18 07:20
S413	1	S408 and ((speech with control with process) same (external))	US-PGPUB; USPAT	OR	OFF	2018/06/18 07:21
S414	14	S408 and ((control with process))	US-PGPUB; USPAT	OR	OFF	2018/06/18 07:21
S415	7	S408 and (((speech or voice or audio) with control))	US-PGPUB; USPAT	OR	OFF	2018/06/18 07:22
S416	7	S415 and wireless	US-PGPUB; USPAT	OR	OFF	2018/06/18 07:28
S417	11	S399 and (wireless)	US-PGPUB; USPAT	OR	OFF	2018/06/18 07:28
S418	2	"20050273505"	US-PGPUB; USPAT	OR	OFF	2018/06/18 09:53
S419	2	"20060212194"	US-PGPUB; USPAT	OR	OFF	2018/06/18 09:53
S420	8	("20050273505" | "20060212194" | "20070096565" | "20070176740" | "20080129475" | "20080136670" | "20100207754" | "20130139440").PN.	US-PGPUB; USPAT	OR	OFF	2018/06/18 09:55
S421	0	S420 and appliance	USPAT	OR	OFF	2018/06/18 09:55
S422	3	("20080307075" | "20090089065" | "20170272316").PN.	US-PGPUB; USPAT	OR	OFF	2018/06/18 09:55
S423	0	S422 and appliance	USPAT	OR	OFF	2018/06/18 09:55
S424	0	S420 and appliance	US-PGPUB; USPAT	OR	ON	2018/06/18 09:56
S425	1	S422 and appliance	US-PGPUB; USPAT	OR	ON	2018/06/18 09:56
S426	21	"8447843"	US-PGPUB; USPAT	OR	ON	2018/06/18 09:58
S427	1	"8447843".pn.	US-PGPUB; USPAT	OR	ON	2018/06/18 09:58
S428	3	"20080077425"	US-PGPUB; USPAT	OR	ON	2018/06/18 09:58
S429	0	S428 and appliance	US-PGPUB; USPAT	OR	ON	2018/06/18 09:58

S430	0	S428 and kitchen	US-PGPUB; USPAT	OR	ON	2018/06/18 09:59
S431	21	("20030009271" | "20030105389" | "20060111825" | "20070021847" | "20070198144" | "20070283005" | "20080100428" | "20090138136" | "20090198380" | "20090224906" | "20100030421" | "20100071053" | "20100211258" | "20110153149" | "20120079149" | "20130091279" | "20130308581" | "20140215491" | "20150046582" | "20160062330" | "20160344745").PN.	US-PGPUB; USPAT	OR	OFF	2018/06/18 09:59
S432	7	S431 and appliance	US-PGPUB; USPAT	OR	ON	2018/06/18 09:59
S433	134	("0000001" | "0000002" | "0000030" | "0000058" | "0000065" | "0000105" | "0000135" | "0000158" | "0002002" | "0006263" | "0006324" | "0006865" | "0040919" | "0064736" | "0066069" | "0089847" | "0500145" | "0732666" | "120050044119" | "120050247573" | "120070112939" | "120080263117" | "120100201531" | "120110041604" | "120110222726" | "14248123" | "15010399" | "15134887" | "15710833" | "15724456" | "15987154" | "16109331" | "16188777" | "16329160" | "16501857" | "16504942" | "16549616" | "16931596" | "17213061" | "17317815" | "17321936" | "17414186" | "17598942" | "17614305" | "17617729" | "1784721" | "20020009383" | "20020010938" | "20030092261" | "20030099228" | "20040182167" | "20050000120" | "20050010957" | "20050180561" | "20070132725" | "20090272193" | "20100000218" | "20100162815" | "20120268373" | "2171640" | "3184842" | "382264836" | "4019073" | "4047187" | "4243631" | "4317991" | "4351192" | "4367027" | "4414537" | "4434451" | "4638364" | "4759220" | "4796891" | "4853884" | "4857273" | "4905176" | "5046022" | "5047952" | "5105087" | "5138459" | "5274631" | "5291234" | "5349129" | "5386103" | "5402170" | "5454043" | "5488429" | "5510765" | "5511547" | "5578877" | "5621455" | "56344119" | "5652849" | "5666159" | "5781650" | "5818975" | "5835616" | "5870138" | "5896443" | "5930201" | "5948965" | "5962786" | "5978519" | "5991456" | "6069899" | "6097470" | "6101271" | "6128397" | "6132281" | "6149312" | "6151073" | "6211636393148" | "6216160" | "6282317" | "6285761" | "6301370" | "6404900" | "6407777" | "6421468" | "6437576" | "6452499" | "6459436" |	US-PGPUB; USPAT	OR	OFF	2018/06/18 10:01

		"6473199" | "6476372" | "6504951" | "6526161" | "6535243" | "6549234" | "6552743" | "6670125" | "6693296216311" | "6694316" | "6714021" | "6747258" | "67883325" | "6806722" | "6820225" | "6844897" | "6862353" | "6895803" | "6940545" | "6967565" | "7010050" | "7124157" | "7239577" | "7256466" | "7289645" | "7315630" | "7327385" | "7342212" | "7432952" | "7466866" | "7499239" | "7508961" | "7653573" | "7688036" | "7692320" | "7716985" | "7821541" | "7843336" | "8016205" | "8115646" | "8180492" | "8214070" | "95578755" | "RE00031" | "RE33682" | "T000005" | "T009255" | "T092876" | "T746684").PN.				
S434	4	S433 and appliance	US-PGPUB; USPAT	OR	OFF	2018/06/18 10:01
S435	4	S433 and (appliance or stove or refrigerator)	US-PGPUB; USPAT	OR	OFF	2018/06/18 10:02
S436	1	"20040267385"	US-PGPUB; USPAT	OR	OFF	2018/06/18 10:03
S437	1	S422 and (appliance or stove or refrigerator)	US-PGPUB; USPAT	OR	OFF	2018/06/18 10:04
S438	0	S428 and (appliance or stove or refrigerator)	US-PGPUB; USPAT	OR	OFF	2018/06/18 10:04
S439	5	S431 and (appliance or stove or refrigerator)	US-PGPUB; USPAT	OR	OFF	2018/06/18 10:04
S440	44	(US-20130201316-$ or US-20100030421-$ or US-20120303216-$ or US-20140188343-$ or US-20140236384-$ or US-20070076593-$ or US-20100211258-$ or US-20080100428-$ or US-20060111825-$ or US-20100148940-$ or US-20100201516-$ or US-20110035491-$ or US-20150046582-$ or US-20160062330-$ or US-20060217840-$ or US-20090198380-$ or US-20150295788-$ or US-20120253480-$ or US-20070283005-$ or US-20100071053-$ or US-20130091254-$ or US-20140286348-$ or US-20130091279-$ or US-20030105389-$ or US-20130139440-$ or US-20130308581-$).did. or (US-20110118888-$ or US-20080031139-$ or US-20080068156-$ or US-20080307075-$ or US-20170111158-$ or US-20090224906-$ or US-20090089065-$ or US-20170272316-$ or US-20080077425-$ or US-20040267385-$).did. or (US-8140658-$ or US-7844687-$ or US-7797367-$ or US-7020701-$ or US-6859831-$ or US-6832251-$ or US-6826607-$ or US-6735630-$).did.	US-PGPUB; USPAT	OR	OFF	2018/06/18 10:05
S441	8	S440 and (appliance or stove or refrigerator)	US-PGPUB; USPAT	OR	OFF	2018/06/18 10:05

S442	1	S440 and (stove or refrigerator)	US-PGPUB; USPAT	OR	OFF	2018/06/18 10:05
S443	22	S440 and (appliance or stove or refrigerator or air$1conditioner or microwave)	US-PGPUB; USPAT	OR	OFF	2018/06/18 10:21
S444	15	S440 and (stove or refrigerator or air$1conditioner or microwave)	US-PGPUB; USPAT	OR	OFF	2018/06/18 10:21
S445	6	S440 and (stove or refrigerator or air adj conditioner)	US-PGPUB; USPAT	OR	OFF	2018/06/18 10:22
S446	1	S440 and (burner or stove or oven)	US-PGPUB; USPAT	OR	OFF	2018/06/18 10:26
S447	0	S399 and (burner or stove or oven)	US-PGPUB; USPAT	OR	OFF	2018/06/18 10:26
S448	0	S399 and (burner or stove or oven)	US-PGPUB; USPAT	OR	ON	2018/06/18 10:26
S449	1	S440 and (burner or stove or oven)	US-PGPUB; USPAT	OR	ON	2018/06/18 10:26
S450	3	(US-20160062330-$ or US-20070283005-$ or US-20090089065-$).did.	US-PGPUB	OR	OFF	2018/06/18 11:23
S451	1	(US-20080077425-$).did.	US-PGPUB	OR	OFF	2018/06/18 11:27
S452	0	S451 and IoT	US-PGPUB; USPAT	OR	ON	2018/06/18 11:27
S453	44	(US-20130201316-$ or US-20100030421-$ or US-20120303216-$ or US-20140188343-$ or US-20140236384-$ or US-20070076593-$ or US-20100211258-$ or US-20080100428-$ or US-20060111825-$ or US-20100148940-$ or US-20100201516-$ or US-20110035491-$ or US-20150046582-$ or US-20160062330-$ or US-20060217840-$ or US-20090198380-$ or US-20150295788-$ or US-20120253480-$ or US-20070283005-$ or US-20100071053-$ or US-20130091254-$ or US-20140286348-$ or US-20130091279-$ or US-20030105389-$ or US-20130139440-$ or US-20130308581-$).did. or (US-20110118888-$ or US-20080031139-$ or US-20080068156-$ or US-20080307075-$ or US-20170111158-$ or US-20090224906-$ or US-20090089065-$ or US-20170272316-$ or US-20080077425-$ or US-20040267385-$).did. or (US-8140658-$ or US-7844687-$ or US-7797367-$ or US-7020701-$ or US-6859831-$ or US-6832251-$ or US-6826607-$ or US-6735630-$).did.	US-PGPUB; USPAT	OR	OFF	2018/06/18 11:27
S457	1	S453 and IoT	US-PGPUB; USPAT	OR	ON	2018/06/18 11:28
S458	1	S450 and (LAN or (local adj2 area))	US-PGPUB	OR	ON	2018/06/18 11:32
S459	227	(yehuda and binder).in.	US-PGPUB	ADJ	ON	2018/06/18 12:53

S460	31	(benjamin and maytal).in.	US-PGPUB	ADJ	ON	2018/06/18 12:53
S461	26	(may and patents).as.	US-PGPUB	ADJ	ON	2018/06/18 12:53
S462	39	(may and patents).aanm.	US-PGPUB	ADJ	ON	2018/06/18 12:53
S463	57	S461 or S462	US-PGPUB	ADJ	ON	2018/06/18 12:53
S464	253	S459 or S460	US-PGPUB	ADJ	ON	2018/06/18 12:53
S465	253	S463 or S464	US-PGPUB	ADJ	ON	2018/06/18 12:53
S466	2	S465 and (vehicle and router and actuator).clm.	US-PGPUB	ADJ	ON	2018/06/18 12:53
S467	9404	H04L67/12.cpc.	US-PGPUB	ADJ	ON	2018/06/18 12:54
S468	997	348/77.ccls.	US-PGPUB	ADJ	ON	2018/06/18 12:54
S469	374	700/28.ccls.	US-PGPUB	ADJ	ON	2018/06/18 12:54
S470	148	700/22.ccls.	US-PGPUB	ADJ	ON	2018/06/18 12:54
S471	1455	709/218.ccls.	US-PGPUB	ADJ	ON	2018/06/18 12:54
S472	12341	S467 or S468 or S469 or S470 or S471	US-PGPUB	ADJ	ON	2018/06/18 12:54
S473	5776	709/218.ccls.	US-PGPUB; USPAT	OR	ON	2018/06/18 12:59
S474	14669	H04L67/12.cpc.	US-PGPUB; USPAT	OR	ON	2018/06/18 12:59
S475	29542	B60K 31/00.cpc.	US-PGPUB; USPAT	OR	ON	2018/06/18 12:59
S476	29542	B60K 31/18.cpc.	US-PGPUB; USPAT	OR	ON	2018/06/18 12:59
S477	300	B60Y2200/11.cpc.	US-PGPUB; USPAT	OR	ON	2018/06/18 12:59
S478	915	B60Y2200/12.cpc.	US-PGPUB; USPAT	OR	ON	2018/06/18 12:59
S479	217	B60Y2200/126.cpc.	US-PGPUB; USPAT	OR	ON	2018/06/18 12:59
S480	339	B60Y2200/13.cpc.	US-PGPUB; USPAT	OR	ON	2018/06/18 12:59
S481	42	B60Y2200/30.cpc.	US-PGPUB; USPAT	OR	ON	2018/06/18 12:59
S482	128	B60Y2200/40.cpc.	US-PGPUB; USPAT	OR	ON	2018/06/18 12:59
S483	23	B60Y2200/50.cpc.	US-PGPUB; USPAT	OR	ON	2018/06/18 12:59
S484	104	B60Y2200/90.cpc.	US-PGPUB; USPAT	OR	ON	2018/06/18 12:59
S485	41547	G01C 21/00.cpc.	US-PGPUB; USPAT	OR	ON	2018/06/18 12:59
S486	204	G06Q2240/00.cpc.	US-PGPUB; USPAT	OR	ON	2018/06/18 12:59

S487	11825	G07C 5/008.cpc.	US-PGPUB; USPAT	OR	ON	2018/06/18 12:59
S488	49737	G08G 1/00	US-PGPUB; USPAT	OR	ON	2018/06/18 12:59
S489	19313	G08G 1/00.cpc.	US-PGPUB; USPAT	OR	ON	2018/06/18 12:59
S490	48	(may and patents).as.	US-PGPUB; USPAT	OR	ON	2018/06/18 12:59
S491	55	(may and patents).aanm.	US-PGPUB; USPAT	OR	ON	2018/06/18 12:59
S492	395	(binder and yehuda).in.	US-PGPUB; USPAT	OR	ON	2018/06/18 12:59
S493	44	(maytal and benjamin).in.	US-PGPUB; USPAT	OR	ON	2018/06/18 12:59
S494	14669	H04L67/12.cpc.	US-PGPUB; USPAT	OR	ON	2018/06/18 12:59
S495	19392	709/218.ccls..	US-PGPUB; USPAT	OR	ON	2018/06/18 12:59
S496	44	(maytal and benjamin).in.	US-PGPUB; USPAT	OR	ON	2018/06/18 12:59
S497	395	(binder and yehuda).in.	US-PGPUB; USPAT	OR	ON	2018/06/18 12:59
S498	55	(may and patents).aanm.	US-PGPUB; USPAT	OR	ON	2018/06/18 12:59
S499	48	(may and patents).as.	US-PGPUB; USPAT	OR	ON	2018/06/18 12:59
S500	159408	S473 S474 S475 S476 S477 S478 S479 S480 S481 S482 S483 S484 S485 S486 S487 S488 S489 S490 S491 S492 S493 S494 S495 S496 S497 S498 S499	US-PGPUB; USPAT	OR	ON	2018/06/18 12:59
S501	10	S500 and (vehicle and router and actuator).clm.	US-PGPUB; USPAT	ADJ	ON	2018/06/18 13:01
S502	2	"15657163"	US-PGPUB; USPAT	OR	OFF	2018/06/18 13:02
S503	1	S500 and (human with voice with actuator with client).clm.	US-PGPUB; USPAT	ADJ	ON	2018/06/18 13:02
S504	5775	709/218.ccls.	US-PGPUB; USPAT	OR	ON	2018/08/30 15:54
S505	16337	H04L67/12.cpc.	US-PGPUB; USPAT	OR	ON	2018/08/30 15:54
S506	30893	B60K 31/00.cpc.	US-PGPUB; USPAT	OR	ON	2018/08/30 15:54
S507	30893	B60K 31/18.cpc.	US-PGPUB; USPAT	OR	ON	2018/08/30 15:54
S508	307	B60Y2200/11.cpc.	US-PGPUB; USPAT	OR	ON	2018/08/30 15:54
S509	964	B60Y2200/12.cpc.	US-PGPUB; USPAT	OR	ON	2018/08/30 15:54
S510	228	B60Y2200/126.cpc.	US-PGPUB; USPAT	OR	ON	2018/08/30 15:54
S511	372	B60Y2200/13.cpc.	US-PGPUB; USPAT	OR	ON	2018/08/30 15:54
S512	47	B60Y2200/30.cpc.	US-PGPUB;	OR	ON	2018/08/30

			USPAT			15:54
S513	139	B60Y2200/40.cpc.	US-PGPUB; USPAT	OR	ON	2018/08/30 15:54
S514	28	B60Y2200/50.cpc.	US-PGPUB; USPAT	OR	ON	2018/08/30 15:54
S515	117	B60Y2200/90.cpc.	US-PGPUB; USPAT	OR	ON	2018/08/30 15:54
S516	43002	G01C 21/00.cpc.	US-PGPUB; USPAT	OR	ON	2018/08/30 15:54
S517	267	G06Q2240/00.cpc.	US-PGPUB; USPAT	OR	ON	2018/08/30 15:54
S518	12674	G07C 5/008.cpc.	US-PGPUB; USPAT	OR	ON	2018/08/30 15:54
S519	52730	G08G 1/00	US-PGPUB; USPAT	OR	ON	2018/08/30 15:54
S520	20427	G08G 1/00.cpc.	US-PGPUB; USPAT	OR	ON	2018/08/30 15:54
S521	48	(may and patents).as.	US-PGPUB; USPAT	OR	ON	2018/08/30 15:54
S522	56	(may and patents).aanm.	US-PGPUB; USPAT	OR	ON	2018/08/30 15:54
S523	396	(binder and yehuda).in.	US-PGPUB; USPAT	OR	ON	2018/08/30 15:54
S524	44	(maytal and benjamin).in.	US-PGPUB; USPAT	OR	ON	2018/08/30 15:54
S525	16337	H04L67/12.cpc.	US-PGPUB; USPAT	OR	ON	2018/08/30 15:54
S526	19576	709/218.ccls..	US-PGPUB; USPAT	OR	ON	2018/08/30 15:54
S527	44	(maytal and benjamin).in.	US-PGPUB; USPAT	OR	ON	2018/08/30 15:54
S528	396	(binder and yehuda).in.	US-PGPUB; USPAT	OR	ON	2018/08/30 15:54
S529	56	(may and patents).aanm.	US-PGPUB; USPAT	OR	ON	2018/08/30 15:54
S530	48	(may and patents).as.	US-PGPUB; USPAT	OR	ON	2018/08/30 15:54
S531	167168	S504 S505 S506 S507 S508 S509 S510 S511 S512 S513 S514 S515 S516 S517 S518 S519 S520 S521 S522 S523 S524 S525 S526 S527 S528 S529 S530	US-PGPUB; USPAT	OR	ON	2018/08/30 15:54
S532	1	S531 and (human with voice with actuator with client).clm.	US-PGPUB; USPAT	ADJ	ON	2018/08/30 15:54
S533	7	(US-20160062330-$ or US-20070283005-$ or US-20100071053-$ or US-20130091279-$ or US-20080307075-$ or US-20090089065-$ or US-20170272316-$).did.	US-PGPUB	OR	OFF	2018/08/31 12:30
S534	1	"15832787"	US-PGPUB; USPAT	OR	OFF	2018/09/15 21:04
S535	32	("20070198144" | "20100211258" | "20160062330" | "20170272316" | "20070096565" | "20070176740" | "20100071053" | "20140215491" |	US-PGPUB; USPAT	OR	OFF	2018/09/16 02:08

		"20150046582" | "20160344745" | "20060212194" | "20120079149" | "20030105389" | "20090138136" | "20090224906" | "20080129475" | "20080136670" | "20130091279" | "20130308581" | "20130139440" | "20080100428" | "20080307075" | "20110153149" | "20050273505" | "20060111825" | "20070021847" | "20090198380" | "20100030421" | "20030009271" | "20070283005" | "20090089065" | "20100207754").PN.				
S536	7	(US-20160062330-$ or US-20070283005-$ or US-20100071053-$ or US-20130091279-$ or US-20080307075-$ or US-20090089065-$ or US-20170272316-$).did.	US-PGPUB	OR	OFF	2018/09/16 02:13
S537	45	(US-20130201316-$ or US-20100030421-$ or US-20120303216-$ or US-20140188343-$ or US-20140236384-$ or US-20070076593-$ or US-20100211258-$ or US-20080100428-$ or US-20060111825-$ or US-20100148940-$ or US-20100201516-$ or US-20110035491-$ or US-20150046582-$ or US-20160062330-$ or US-20060217840-$ or US-20090198380-$ or US-20150295788-$ or US-20120253480-$ or US-20070283005-$ or US-20100071053-$ or US-20130091254-$ or US-20140286348-$ or US-20130091279-$ or US-20030105389-$ or US-20130139440-$ or US-20130308581-$).did. or (US-20110118888-$ or US-20080031139-$ or US-20080068156-$ or US-20080307075-$ or US-20170111158-$ or US-20090224906-$ or US-20090089065-$ or US-20170272316-$ or US-20080077425-$ or US-20040267385-$ or US-20180124181-$).did. or (US-8140658-$ or US-7844687-$ or US-7797367-$ or US-7020701-$ or US-6859831-$ or US-6832251-$ or US-6826607-$ or US-6735630-$).did.	US-PGPUB; USPAT	OR	OFF	2018/09/16 02:13
S538	7	S535 and S536 and S537	US-PGPUB; USPAT	OR	OFF	2018/09/16 02:13
S539	60	S535 or S536 or S537	US-PGPUB; USPAT	OR	OFF	2018/09/16 02:13
S540	17	S539 and ((voice or audio or speech) with control)	US-PGPUB; USPAT	OR	OFF	2018/09/16 02:13
S541	13	S540 and (LED or light)	US-PGPUB; USPAT	OR	OFF	2018/09/16 02:13
S542	8	S539 and ((voice or audio or speech) adj3 control)	US-PGPUB; USPAT	OR	OFF	2018/09/16 02:14
S543	7	S542 and (LED or light)	US-PGPUB; USPAT	OR	OFF	2018/09/16 02:14
S544	4	S542 and ((actuator or respond or response or responsing or alerting or	US-PGPUB; USPAT	OR	OFF	2018/09/16 02:22

		notifying or alert or notify or notifcation) with (LED or light))				
S545	13	S539 and ((actuator or respond or response or responsing or alerting or notifying or alert or notify or notifcation) with (LED or light))	US-PGPUB; USPAT	OR	OFF	2018/09/16 02:22
S546	32	("20070198144" | "20100211258" | "20160062330" | "20170272316" | "20070096565" | "20070176740" | "20100071053" | "20140215491" | "20150046582" | "20160344745" | "20060212194" | "20120079149" | "20030105389" | "20090138136" | "20090224906" | "20080129475" | "20080136670" | "20130091279" | "20130308581" | "20130139440" | "20080100428" | "20080307075" | "20110153149" | "20050273505" | "20060111825" | "20070021847" | "20090198380" | "20100030421" | "20030009271" | "20070283005" | "20090089065" | "20100207754").PN.	US-PGPUB; USPAT	OR	OFF	2018/09/16 17:50
S547	7	(US-20160062330-$ or US-20070283005-$ or US-20100071053-$ or US-20130091279-$ or US-20080307075-$ or US-20090089065-$ or US-20170272316-$).did.	US-PGPUB	OR	OFF	2018/09/16 17:50
S548	45	(US-20130201316-$ or US-20100030421-$ or US-20120303216-$ or US-20140188343-$ or US-20140236384-$ or US-20070076593-$ or US-20100211258-$ or US-20080100428-$ or US-20060111825-$ or US-20100148940-$ or US-20100201516-$ or US-20110035491-$ or US-20150046582-$ or US-20160062330-$ or US-20060217840-$ or US-20090198380-$ or US-20150295788-$ or US-20120253480-$ or US-20070283005-$ or US-20100071053-$ or US-20130091254-$ or US-20140286348-$ or US-20130091279-$ or US-20030105389-$ or US-20130139440-$ or US-20130308581-$).did. or (US-20110118888-$ or US-20080031139-$ or US-20080068156-$ or US-20080307075-$ or US-20170111158-$ or US-20090224906-$ or US-20090089065-$ or US-20170272316-$ or US-20080077425-$ or US-20040267385-$ or US-20180124181-$).did. or (US-8140658-$ or US-7844687-$ or US-7797367-$ or US-7020701-$ or US-6859831-$ or US-6832251-$ or US-6826607-$ or US-6735630-$).did.	US-PGPUB; USPAT	OR	OFF	2018/09/16 17:50
S549	60	S546 or S547 or S548	US-PGPUB; USPAT	OR	OFF	2018/09/16 17:50
S550	13	S549 and ((actuator or respond or response or responsing or alerting or notifying or alert or notify or	US-PGPUB; USPAT	OR	OFF	2018/09/16 17:50

		notifcation) with (LED or light))				
S551	13929	sensor same actuator same light	US-PGPUB; USPAT	OR	OFF	2018/09/16 17:54
S552	40441	home with security	US-PGPUB; USPAT	OR	OFF	2018/09/16 17:54
S553	38871	S552 and (control or central or server)	US-PGPUB; USPAT	OR	OFF	2018/09/16 17:55
S554	3449	S553 and (actuator)	US-PGPUB; USPAT	OR	OFF	2018/09/16 17:55
S555	1784	S554 and light and LED	US-PGPUB; USPAT	OR	OFF	2018/09/16 17:55
S556	9664	S553 and light and LED	US-PGPUB; USPAT	OR	OFF	2018/09/16 17:55
S557	6008	S556 and alarm	US-PGPUB; USPAT	OR	OFF	2018/09/16 17:55
S558	5158	S557 and internet	US-PGPUB; USPAT	OR	OFF	2018/09/16 17:56
S559	5700	S557 and wireless	US-PGPUB; USPAT	OR	OFF	2018/09/16 17:56
S560	5082	S559 and internet	US-PGPUB; USPAT	OR	OFF	2018/09/16 17:56
S561	26	(may and patents).as.	US-PGPUB	ADJ	ON	2018/09/16 17:57
S562	40	(may and patents).aanm.	US-PGPUB	ADJ	ON	2018/09/16 17:57
S563	58	S561 or S562	US-PGPUB	ADJ	ON	2018/09/16 17:57
S564	5130	S560 XOR S563	US-PGPUB; USPAT	OR	OFF	2018/09/16 17:57
S565	152	S560 and (actuator with light)	US-PGPUB; USPAT	OR	OFF	2018/09/16 17:58
S566	234	S560 and (actuator same light)	US-PGPUB; USPAT	OR	OFF	2018/09/16 17:58
S567	715	S560 and (sensor with internet)	US-PGPUB; USPAT	OR	OFF	2018/09/16 20:02
S568	47	S565 and (sensor with internet)	US-PGPUB; USPAT	OR	OFF	2018/09/16 20:02
S569	9	S565 and (sensor NEAR7 internet)	US-PGPUB; USPAT	OR	OFF	2018/09/16 20:02
S570	45	S568 and (control$4 with light)	US-PGPUB; USPAT	OR	OFF	2018/09/16 20:07
S571	42	S568 and (control$4 NEAR9 light)	US-PGPUB; USPAT	OR	OFF	2018/09/16 20:07
S572	2	(US-20070283005-$ or US-20180253069-$).did.	US-PGPUB	OR	OFF	2018/09/16 21:47
S573	1	S572 and lamp	US-PGPUB; USPAT	OR	OFF	2018/09/16 21:47
S574	3	(US-20070283005-$ or US-20090089065-$ or US-20180253069-$).did.	US-PGPUB	OR	OFF	2018/09/16 21:51
S575	3	S574 and (voice)	US-PGPUB	OR	OFF	2018/09/16 21:51
S576	3	S574 and (speech or voice)	US-PGPUB	OR	OFF	2018/09/16 21:52

S577	1	S574 and (speech)	US-PGPUB	OR	OFF	2018/09/16 21:52
S578	47	(US-20130201316-$ or US-20100030421-$ or US-20120303216-$ or US-20140188343-$ or US-20140236384-$ or US-20070076593-$ or US-20100211258-$ or US-20080100428-$ or US-20060111825-$ or US-20100148940-$ or US-20100201516-$ or US-20110035491-$ or US-20150046582-$ or US-20160062330-$ or US-20060217840-$ or US-20090198380-$ or US-20150295788-$ or US-20120253480-$ or US-20070283005-$ or US-20100071053-$ or US-20130091254-$ or US-20140286348-$ or US-20130091279-$ or US-20030105389-$ or US-20130139440-$ or US-20130308581-$).did. or (US-20110118888-$ or US-20080031139-$ or US-20080068156-$ or US-20080307075-$ or US-20170111158-$ or US-20090224906-$ or US-20090089065-$ or US-20170272316-$ or US-20080077425-$ or US-20040267385-$ or US-20180124181-$ or US-20050216302-$ or US-20180253069-$).did. or (US-8140658-$ or US-7844687-$ or US-7797367-$ or US-7020701-$ or US-6859831-$ or US-6832251-$ or US-6826607-$ or US-6735630-$).did.	US-PGPUB; USPAT	OR	OFF	2018/09/16 21:52
S579	8	S578 and ((speech or voice) with control)	US-PGPUB; USPAT	OR	OFF	2018/09/16 21:53
S580	1	S574 and (lamp)	US-PGPUB	OR	OFF	2018/09/16 21:54
S581	2	S574 and (LED or light or bulb)	US-PGPUB	OR	OFF	2018/09/16 21:55
S582	1	"20080215391"	US-PGPUB	OR	OFF	2018/09/16 22:08
S583	2	(US-20070283005-$ or US-20080215391-$).did.	US-PGPUB	OR	OFF	2018/09/16 22:16
S584	1	"15832787"	US-PGPUB	OR	OFF	2018/09/16 22:40
S585	5775	709/218.ccls.	US-PGPUB; USPAT	OR	OFF	2018/09/17 00:59
S586	16494	H04L67/12.cpc.	US-PGPUB; USPAT	OR	OFF	2018/09/17 00:59
S587	31132	B60K 31/00.cpc.	US-PGPUB; USPAT	OR	OFF	2018/09/17 00:59
S588	150	B60K31/18.cpc.	US-PGPUB; USPAT	OR	OFF	2018/09/17 00:59
S589	670	B60K31/00.cpc.	US-PGPUB; USPAT	OR	OFF	2018/09/17 00:59
S590	309	B60Y2200/11.cpc.	US-PGPUB; USPAT	OR	OFF	2018/09/17 01:00
S591	966	B60Y2200/12.cpc.	US-PGPUB; USPAT	OR	OFF	2018/09/17 01:00

S592	230	B60Y2200/126.cpc.	US-PGPUB; USPAT	OR	OFF	2018/09/17 01:00
S593	378	B60Y2200/13.cpc.	US-PGPUB; USPAT	OR	OFF	2018/09/17 01:00
S594	48	B60Y2200/30.cpc.	US-PGPUB; USPAT	OR	OFF	2018/09/17 01:00
S595	139	B60Y2200/40.cpc.	US-PGPUB; USPAT	OR	OFF	2018/09/17 01:00
S596	28	B60Y2200/50.cpc.	US-PGPUB; USPAT	OR	OFF	2018/09/17 01:00
S597	118	B60Y2200/90.cpc.	US-PGPUB; USPAT	OR	OFF	2018/09/17 01:00
S598	3668	G01C21/00.cpc.	US-PGPUB; USPAT	OR	OFF	2018/09/17 01:01
S599	270	G06Q2240/00.cpc.	US-PGPUB; USPAT	OR	OFF	2018/09/17 01:01
S600	7177	G07C5/008.cpc.	US-PGPUB; USPAT	OR	OFF	2018/09/17 01:01
S601	648	G08G1/00.cpc.	US-PGPUB; USPAT	OR	OFF	2018/09/17 01:01
S602	44	(maytal and benjamin).in.	US-PGPUB; USPAT	OR	ON	2018/09/17 01:02
S603	396	(binder and yehuda).in.	US-PGPUB; USPAT	OR	ON	2018/09/17 01:02
S604	56	(may and patents).aanm.	US-PGPUB; USPAT	OR	ON	2018/09/17 01:02
S605	48	(may and patents).as.	US-PGPUB; USPAT	OR	ON	2018/09/17 01:02
S606	32994	S602 or S603 or S604 or S605 or S585 or S586 or S587 or S588 or S589 or S590 or S591 or S592 or S593 or S594 or S595 or S596 or S597 or S598 or S599 or S600 or S601	US-PGPUB	ADJ	ON	2018/09/17 01:02
S607	6	S606 and (voice with microphones with human).clm.	US-PGPUB	ADJ	ON	2018/09/17 01:03
S608	191	S606 and (light with diode).clm.	US-PGPUB	ADJ	ON	2018/09/17 01:03
S609	2	S607 and (light with diode).clm.	US-PGPUB	ADJ	ON	2018/09/17 01:04
S610	15	(US-20140215491-$ or US-20100071053-$ or US-20070021847-$ or US-20110153149-$ or US-20090138136-$ or US-20060111825-$ or US-20080100428-$ or US-20070198144-$ or US-20030009271-$ or US-20100211258-$ or US-20100030421-$ or US-20150046582-$ or US-20090089065-$ or US-20080307075-$ or US-20070283005-$).did.	US-PGPUB; USPAT	OR	OFF	2018/09/20 16:51
S611	53	(US-20130201316-$ or US-20100030421-$ or US-20120303216-$ or US-20140188343-$ or US-20140236384-$ or US-20070076593-$ or US-20100211258-$ or US-20080100428-$ or US-20060111825-$ or US-20100148940-$ or US-	US-PGPUB; USPAT	OR	OFF	2018/09/20 16:52

		20100201516-$ or US-20110035491-$ or US-20150046582-$ or US-20160062330-$ or US-20060217840-$ or US-20090198380-$ or US-20150295788-$ or US-20160344745-$ or US-20120253480-$ or US-20070283005-$ or US-20100071053-$ or US-20130091254-$ or US-20140286348-$ or US-20130091279-$ or US-20030105389-$ or US-20130139440-$).did. or (US-20130308581-$ or US-20110118888-$ or US-20120079149-$ or US-20080031139-$ or US-20080068156-$ or US-20080307075-$ or US-20170111158-$ or US-20090224906-$ or US-20170078400-$ or US-20110153149-$ or US-20110032952-$ or US-20090138136-$ or US-20030009271-$ or US-20070198144-$ or US-20070021847-$ or US-20110055292-$ or US-20070225873-$ or US-20140215491-$ or US-20090089065-$).did. or (US-8140658-$ or US-7844687-$ or US-7797367-$ or US-7020701-$ or US-6859831-$ or US-6832251-$ or US-6826607-$ or US-6735630-$).did.				
S612	44	(US-20130201316-$ or US-20100030421-$ or US-20120303216-$ or US-20140188343-$ or US-20140236384-$ or US-20070076593-$ or US-20100211258-$ or US-20080100428-$ or US-20060111825-$ or US-20100148940-$ or US-20100201516-$ or US-20110035491-$ or US-20150046582-$ or US-20160062330-$ or US-20060217840-$ or US-20090198380-$ or US-20150295788-$ or US-20120253480-$ or US-20070283005-$ or US-20100071053-$ or US-20130091254-$ or US-20140286348-$ or US-20130091279-$ or US-20030105389-$ or US-20130139440-$ or US-20130308581-$).did. or (US-20110118888-$ or US-20080031139-$ or US-20080068156-$ or US-20080307075-$ or US-20170111158-$ or US-20090224906-$ or US-20090089065-$ or US-20170272316-$ or US-20080077425-$ or US-20040267385-$).did. or (US-8140658-$ or US-7844687-$ or US-7797367-$ or US-7020701-$ or US-6859831-$ or US-6832251-$ or US-6826607-$ or US-6735630-$).did.	US-PGPUB; USPAT	OR	OFF	2018/09/20 16:52
S613	7	(US-20160062330-$ or US-20070283005-$ or US-20100071053-$ or US-20130091279-$ or US-20080307075-$ or US-20090089065-$ or US-20170272316-$).did.	US-PGPUB; USPAT	OR	OFF	2018/09/20 16:53
S614	0	"15992221"	US-PGPUB;	OR	OFF	2018/09/20

			USPAT			16:57
S615	58	(US-20130201316-$ or US-20100030421-$ or US-20120303216-$ or US-20140188343-$ or US-20140236384-$ or US-20070076593-$ or US-20100211258-$ or US-20080100428-$ or US-20060111825-$ or US-20100148940-$ or US-20100201516-$ or US-20110035491-$ or US-20150046582-$ or US-20160062330-$ or US-20060217840-$ or US-20090198380-$ or US-20150295788-$ or US-20120253480-$ or US-20070283005-$ or US-20100071053-$ or US-20130091254-$ or US-20140286348-$ or US-20130091279-$ or US-20030105389-$ or US-20130139440-$ or US-20130308581-$).did. or (US-20110118888-$ or US-20080031139-$ or US-20080068156-$ or US-20080307075-$ or US-20170111158-$ or US-20090224906-$ or US-20090089065-$ or US-20170272316-$ or US-20080077425-$ or US-20040267385-$ or US-20180124181-$ or US-20050216302-$ or US-20180253069-$ or US-20080215391-$ or US-20030009271-$ or US-20140215491-$ or US-20110153149-$ or US-20090138136-$ or US-20070198144-$ or US-20070021847-$ or US-20160344745-$ or US-20110055292-$ or US-20110032952-$ or US-20070225873-$).did. or (US-8140658-$ or US-7844687-$ or US-7797367-$ or US-7020701-$ or US-6859831-$ or US-6832251-$ or US-6826607-$ or US-6735630-$).did.	US-PGPUB; USPAT	OR	OFF	2018/09/20 21:30
S616	13	S615 and appliance	US-PGPUB; USPAT	OR	OFF	2018/09/20 21:30
S617	6	S616 and (alternating or AC)	US-PGPUB; USPAT	OR	OFF	2018/09/20 21:30
S618	11	(US-20160062330-$ or US-20070283005-$ or US-20100071053-$ or US-20130091279-$ or US-20080307075-$ or US-20090089065-$ or US-20170272316-$ or US-20040267385-$ or US-20130139440-$ or US-20180253069-$ or US-20080215391-$).did.	US-PGPUB	OR	OFF	2018/09/20 21:33
S622	58	S615 or S618	US-PGPUB; USPAT	OR	OFF	2018/09/20 21:33
S623	25724	smart with appliance	US-PGPUB; USPAT	OR	OFF	2018/09/20 21:34
S624	40382	smart with appliance	US-PGPUB; USPAT	OR	ON	2018/09/20 21:34
S625	1316	S624 and (kitchen and food)	US-PGPUB; USPAT	OR	ON	2018/09/20 21:35
S626	997	S624 and (kitchen and cook$4 and food)	US-PGPUB; USPAT	OR	ON	2018/09/20 21:35

S627	676	S625 and (alternating or AC)	US-PGPUB; USPAT	OR	ON	2018/09/20 21:35
S628	652	S627 and current	US-PGPUB; USPAT	OR	ON	2018/09/20 21:36
S629	356	S628 and antenna	US-PGPUB; USPAT	OR	ON	2018/09/20 21:36
S630	351	S629 and (relay or switch)	US-PGPUB; USPAT	OR	ON	2018/09/20 21:36
S631	23	S630 and latch	US-PGPUB; USPAT	OR	ON	2018/09/20 21:36
S632	23	S631 and wireless	US-PGPUB; USPAT	OR	ON	2018/09/20 21:36
S633	468	S627 and (current with sensor)	US-PGPUB; USPAT	OR	ON	2018/09/20 21:37
S634	117	S633 and actuator	US-PGPUB; USPAT	OR	ON	2018/09/20 21:37
S635	12	S632 and actuator	US-PGPUB; USPAT	OR	ON	2018/09/20 21:37
S636	1	"9717949".pn.	US-PGPUB; USPAT	OR	ON	2018/09/20 21:42
S637	7	"20060166737"	US-PGPUB; USPAT	OR	ON	2018/09/20 21:42
S638	1	"20140072278"	US-PGPUB; USPAT	OR	ON	2018/09/20 21:42
S639	4	"12206766"	US-PGPUB; USPAT	OR	ON	2018/09/20 21:47
S640	4	"11930299"	US-PGPUB; USPAT	OR	ON	2018/09/20 21:48
S641	356	S629 and wireless	US-PGPUB; USPAT	OR	ON	2018/09/20 22:53
S642	351	S641 and sensor	US-PGPUB; USPAT	OR	ON	2018/09/20 22:53
S643	297	S642 and relay	US-PGPUB; USPAT	OR	ON	2018/09/20 22:54
S644	6	S618 and appliance	US-PGPUB; USPAT	OR	OFF	2018/09/20 22:57
S645	59	(US-20130201316-$ or US-20100030421-$ or US-20120303216-$ or US-20140188343-$ or US-20140236384-$ or US-20070076593-$ or US-20100211258-$ or US-20080100428-$ or US-20060111825-$ or US-20100148940-$ or US-20100201516-$ or US-20110035491-$ or US-20150046582-$ or US-20160062330-$ or US-20060217840-$ or US-20090198380-$ or US-20150295788-$ or US-20120253480-$ or US-20070283005-$ or US-20100071053-$ or US-20130091254-$ or US-20140286348-$ or US-20130091279-$ or US-20030105389-$ or US-20130139440-$ or US-20130308581-$).did. or (US-20110118888-$ or US-20080031139-$ or US-20080068156-$ or US-20080307075-$ or US-20170111158-$	US-PGPUB; USPAT	OR	OFF	2018/09/20 23:15

		or US-20090224906-$ or US-20090089065-$ or US-20170272316-$ or US-20080077425-$ or US-20040267385-$ or US-20180124181-$ or US-20050216302-$ or US-20180253069-$ or US-20080215391-$ or US-20030009271-$ or US-20140215491-$ or US-20110153149-$ or US-20090138136-$ or US-20070198144-$ or US-20070021847-$ or US-20160344745-$ or US-20110055292-$ or US-20110032952-$ or US-20070225873-$ or US-20160218884-$).did. or (US-8140658-$ or US-7844687-$ or US-7797367-$ or US-7020701-$ or US-6859831-$ or US-6832251-$ or US-6826607-$ or US-6735630-$).did.				
S646	3	S645 and refrigerator	US-PGPUB; USPAT	OR	OFF	2018/09/20 23:15
S647	3	S645 and (stove or oven)	US-PGPUB; USPAT	OR	OFF	2018/09/20 23:15
S648	2	"20130041519"	US-PGPUB; USPAT	OR	OFF	2018/09/21 00:08
S649	80	S643 and solenoid	US-PGPUB; USPAT	OR	OFF	2018/09/21 00:08
S650	80	S643 and (solenoid or SSR or (solid adj state adj relay) or (reed NEAR4 relay) or (relay NEAR5 (solidstate or solid$1state)) or (relay NEAR5 semiconductor))	US-PGPUB; USPAT	OR	OFF	2018/09/21 00:10
S652	6	(US-20170272316-$ or US-20180253069-$ or US-20160218884-$ or US-20110251807-$ or US-20120228952-$ or US-20140170275-$).did.	US-PGPUB	OR	OFF	2018/09/21 00:29
S653	0	S652 and (relay with latching)	US-PGPUB; USPAT	OR	OFF	2018/09/21 00:30
S654	1	S652 and (relay with solenoid)	US-PGPUB; USPAT	OR	OFF	2018/09/21 00:30
S655	4	S652 and (relay)	US-PGPUB; USPAT	OR	OFF	2018/09/21 00:30
S656	9637	relay with (latch$4)	US-PGPUB; USPAT	OR	OFF	2018/09/21 00:34
S657	55096	(switch or relay) with (latch$4)	US-PGPUB; USPAT	OR	OFF	2018/09/21 00:34
S658	650	S657 and ((appliance) and (food or cook$4 or kitchen))	US-PGPUB; USPAT	OR	OFF	2018/09/21 00:34
S659	264	S658 and solenoid	US-PGPUB; USPAT	OR	OFF	2018/09/21 00:34
S660	103	S659 and wireless	US-PGPUB; USPAT	OR	OFF	2018/09/21 00:35
S661	1	"4521183".pn.	US-PGPUB; USPAT	OR	OFF	2018/09/21 00:44
S662	1	"6663009".pn.	US-PGPUB; USPAT	OR	OFF	2018/09/21 00:48
S663	1	"5167216".pn.	US-PGPUB; USPAT	OR	OFF	2018/09/21 00:49

S664	2	"20050098169"	US-PGPUB; USPAT	OR	OFF	2018/09/21 00:49
S665	2	"20130041519"	US-PGPUB; USPAT	OR	OFF	2018/09/21 00:57
S666	2	"20130041519"	US-PGPUB; USPAT	OR	OFF	2018/09/21 00:57
S667	1	"7657763".pn.	US-PGPUB; USPAT	OR	OFF	2018/09/21 00:58
S668	63444	((appliance) and (food or cook$4 or kitchen))	US-PGPUB; USPAT	OR	OFF	2018/09/21 01:00
S669	3220	S668 and solenoid	US-PGPUB; USPAT	OR	OFF	2018/09/21 01:00
S670	1181	S669 and wireless	US-PGPUB; USPAT	OR	OFF	2018/09/21 01:00
S671	95717	((appliance) and (food or cook$4 or kitchen))	US-PGPUB; USPAT	OR	ON	2018/09/21 01:00
S672	4701	S671 and solenoid	US-PGPUB; USPAT	OR	ON	2018/09/21 01:01
S673	1692	S672 and wireless	US-PGPUB; USPAT	OR	ON	2018/09/21 01:01
S674	244	S673 and (switch or relay or mechanism) with (latch$4)	US-PGPUB; USPAT	OR	ON	2018/09/21 01:01
S675	4	"13650100"	US-PGPUB; USPAT	OR	OFF	2018/09/21 01:08
S676	2	"20080029081"	US-PGPUB; USPAT	OR	OFF	2018/09/21 01:10
S677	6	("4756839" | "4813487" | "4979572" | "5351760" | "5992531" | "7303024").PN.	US-PGPUB; USPAT	OR	OFF	2018/09/21 01:11
S678	2	"20110170377" or "4756336".pn.	US-PGPUB; USPAT	OR	OFF	2018/09/21 01:59
S679	2	(US-20160218884-$ or US-20120325197-$).did.	US-PGPUB	OR	OFF	2018/09/21 03:17
S680	1	S679 and (wireless with A12)	US-PGPUB; USPAT	OR	OFF	2018/09/21 03:17
S681	0	S679 and (AC with A12)	US-PGPUB; USPAT	OR	OFF	2018/09/21 03:18
S682	2	S679 and (AC)	US-PGPUB; USPAT	OR	OFF	2018/09/21 03:18
S683	1	S679 and (AC with appliance)	US-PGPUB; USPAT	OR	OFF	2018/09/21 03:18
S684	9	(US-20170272316-$ or US-20180253069-$ or US-20160218884-$ or US-20110251807-$ or US-20120228952-$ or US-20140170275-$ or US-20150226439-$ or US-20120325197-$ or US-20090183729-$).did.	US-PGPUB	OR	OFF	2018/09/21 03:21
S685	1	S684 and (AC with appliance)	US-PGPUB; USPAT	OR	OFF	2018/09/21 03:21
S686	7	S684 and (AC)	US-PGPUB; USPAT	OR	OFF	2018/09/21 03:21
S687	2	S684 and (alternating)	US-PGPUB; USPAT	OR	OFF	2018/09/21 03:24

S688	5833	(whirlpool and corporation).as.	US-PGPUB; USPAT	OR	OFF	2018/09/21 03:27
S689	2331	(whirlpool and corporation).aanm.	US-PGPUB; USPAT	OR	OFF	2018/09/21 03:27
S690	6250	S688 or S689	US-PGPUB; USPAT	OR	OFF	2018/09/21 03:27
S691	86	S690 and (solenoid and wireless)	US-PGPUB; USPAT	OR	OFF	2018/09/21 03:27
S692	75	S690 and (solenoid and appliance and wireless)	US-PGPUB; USPAT	OR	OFF	2018/09/21 03:27
S693	70	S690 and (solenoid and appliance and food and wireless)	US-PGPUB; USPAT	OR	OFF	2018/09/21 03:28
S694	36	S690 and (solenoid and appliance and antenna and food and wireless)	US-PGPUB; USPAT	OR	OFF	2018/09/21 03:28
S695	9	S684 and ((electric or electricity or current or energy or power) with (bill$4 or consumption or us$4 or consum$4 or measur$4))	US-PGPUB; USPAT	OR	ON	2018/09/21 03:32
S696	8	S684 and (alternating or AC)	US-PGPUB; USPAT	OR	ON	2018/09/21 03:32
S697	2	S684 and ((alternating or AC) with appliance)	US-PGPUB; USPAT	OR	ON	2018/09/21 03:32
S698	112	ebrom.in.	US-PGPUB; USPAT	OR	ON	2018/09/21 03:40
S699	11	S698 and (appliance with (AC or alternating))	US-PGPUB; USPAT	OR	ON	2018/09/21 03:40
S700	7	S684 and (sensor with (electric or electricity or current or energy or power) with (bill$4 or consumption or us$4 or consum$4 or measur$4))	US-PGPUB; USPAT	OR	ON	2018/09/21 04:44
S701	5775	709/218.ccls.	US-PGPUB; USPAT	OR	ON	2018/09/21 05:25
S702	16552	H04L67/12.cpc.	US-PGPUB; USPAT	OR	ON	2018/09/21 05:25
S703	102574	B60K 31/00.cpc. B60K 31/18.cpc. B60Y2200/11.cpc. B60Y2200/12.cpc. B60Y2200/126.cpc. B60Y2200/13.cpc. B60Y2200/30.cpc. B60Y2200/40.cpc. B60Y2200/50.cpc. B60Y2200/90.cpc. G01C 21/00.cpc. G06Q2240/00.cpc. G07C 5/008.cpc. G08G 1/00.cpc.	US-PGPUB; USPAT	OR	ON	2018/09/21 05:26
S704	45	(maytal and benjamin).in.	US-PGPUB; USPAT	OR	ON	2018/09/21 05:27
S705	397	(binder and yehuda).in.	US-PGPUB; USPAT	OR	ON	2018/09/21 05:27
S706	57	(may and patents).aanm.	US-PGPUB; USPAT	OR	ON	2018/09/21 05:27
S707	48	(may and patents).as.	US-PGPUB; USPAT	OR	ON	2018/09/21 05:27
S708	437	S704 S705 S706 S707	US-PGPUB; USPAT	OR	ON	2018/09/21 05:27
S709	123485	S701 or S702 or S703 or S708	US-PGPUB; USPAT	OR	ON	2018/09/21 05:28
S710	2	S709 and (relay with solenoid with reed).clm.	US-PGPUB; USPAT	OR	ON	2018/09/21 05:28

S712	1	"15992221"	US-PGPUB; USPAT	OR	ON	2019/01/11 13:47
S713	4	"11930299"	US-PGPUB; USPAT	OR	ON	2019/01/11 13:49
S714	1	(US-20080130520-$).did.	US-PGPUB	OR	ON	2019/01/11 13:49
S715	3	"12256555"	US-PGPUB	OR	ON	2019/01/11 14:11
S716	1	(US-20130235197-$).did.	US-PGPUB	OR	ON	2019/01/11 14:12
S717	5774	709/218.ccls.	US-PGPUB; USPAT	OR	ON	2019/01/11 16:17
S718	17742	H04L67/12.cpc.	US-PGPUB; USPAT	OR	ON	2019/01/11 16:17
S719	108919	B60K 31/00.cpc. B60K 31/18.cpc. B60Y2200/11.cpc. B60Y2200/12.cpc. B60Y2200/126.cpc. B60Y2200/13.cpc. B60Y2200/30.cpc. B60Y2200/40.cpc. B60Y2200/50.cpc. B60Y2200/90.cpc. G01C 21/00.cpc. G06Q2240/00.cpc. G07C 5/008.cpc. G08G 1/00.cpc.	US-PGPUB; USPAT	OR	ON	2019/01/11 16:17
S720	49	(maytal and benjamin).in.	US-PGPUB; USPAT	OR	ON	2019/01/11 16:17
S721	408	(binder and yehuda).in.	US-PGPUB; USPAT	OR	ON	2019/01/11 16:17
S722	64	(may and patents).aanm.	US-PGPUB; USPAT	OR	ON	2019/01/11 16:17
S723	48	(may and patents).as.	US-PGPUB; USPAT	OR	ON	2019/01/11 16:17
S724	448	S720 S721 S722 S723	US-PGPUB; USPAT	OR	ON	2019/01/11 16:17
S725	130841	S717 or S718 or S719 or S724	US-PGPUB; USPAT	OR	ON	2019/01/11 16:17
S726	5	S725 and (relay with solenoid with reed).clm.	US-PGPUB; USPAT	OR	ON	2019/01/11 16:17

EAST Search History (Interference)

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C:\ Users\ hkhan2\ Documents\ EAST\ Workspaces\ 15992221.wsp

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/992,221	05/30/2018	Yehuda BINDER	BINDER-014-US7	8906

131926 7590 03/27/2019

May Patents Ltd. c/o Dorit Shem-Tov
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Ramat-Gan, 5217102
ISRAEL

EXAMINER	
KHAN, HASSAN ABDUR-RAHMAN	

ART UNIT	PAPER NUMBER
2456	

MAIL DATE	DELIVERY MODE
03/27/2019	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Technology Center Petition Count Sheet	Application No. 15/992,221	Applicant(s) BINDER et al.	

Petition Code	Petition Type
☐ 601	Petition to Make Special, Age or Health (37 CFR 1.102, MPEP § 708.02)
☐ 604	Petition to Make Special, Accelerated Examination (37 CFR 1.102, MPEP § 708.02)
☐ 607	Petition to Make Special, For Reasons not Provided in 601-606 and 639-640 (37 CFR 1.102, MPEP § 708.02)
☐ 608	Petition to Reopen After a Board Decision (37 CFR 1.198)
☑ 609	Petition for Review of Final Restriction Requirement (37 CFR 1.144)
☐ 610	Petition Invoking Authority of Commissioner under 37 CFR 1.181 Not Specified in Codes 611-617
☐ 611	Petition Relating to Prematureness of Final Rejection (37 CFR 1.181, MPEP § 706.07)
☐ 612	Petition Relating to Refusal to Enter an Amendment (37 CFR 1.181 and 1.127, MPEP § 714.09)
☐ 613	Petition Relating to Withdraw of holding of Abandonment (37 CFR 1.137, MPEP § 711.03)
☐ 614	Petition Relating to Withdraw of holding of Abandonment (37 CFR 1.137, MPEP § 7.14.19)
☐ 615	Petition Relating to Formal Sufficiency / Propriety of Affidavits (37 CFR 1.131, 1.132, 1.608, MPEP § 608.04(C)
☐ 617	Petition Relating to Refusal to Enter an Amendment (37 CFR 1.312)
☐ 620	Petition for Extension of Time (37 CFR 1.136 (b))
☐ 622	Petition Concerning Appeal Application before Transfer of Jurisdiction to Board of Appeals (MPEP § 1206)
☐ 623	Petition for Second or Subsequent Suspension of Action (37 CFR 1.103, MPEP § 709)
☐ 634	Petition to Correct Inventorship in a Patent not in Interference (37 CFR 1.324, MPEP § 1481)
☐ 635	Petition to Correct Inventorship in a Patent Application (37 CFR 1.48)
☐ 636	Petition to Change Inventorship in a Patent (37 CFR 1.324)
☐ 637	Petition to Withdraw from Issue, before Payment of an Issue Fee (37 CFR 1.313(a))
☐ 639	Petition for Make Special Prospective Manufacture (37 CFR 1.102, MPEP § 708.02)
☐ 646	Petition for Make Special Accelerated Examination
☐ 690	Petition Related Color Drawings of Photographs
☐ 699	Petition for Matters Before Technology Center

Information Required for OPESS Processing

☐ GRANTED ☑ GRANTED-IN-PART ☐ DENIED ☐ DISMISSED

☐ Mail Decision and Enter Decision in Petition Database/PALM
☐ Copy Decision, Send to Scanning
☐ Fees Need to be Charged
☐ _____

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May Patents Ltd. c/o Dorit Shem-Tov
P.O.B 7230
Ramat-Gan, 5217102
Israel

In re Application of: BINDER, ET AL.
Application No. **15/992,221**
Filed: May 30th, 2018
Atty Docket No. BINDER-014-US7
Title of Invention: SYSTEM AND METHOD FOR SERVER BASED CONTROL

DECISION ON PETITION UNDER 37 C.F.R. § 1.144 TO WITHDRAW RESTRICTION REQUIRMENT

This is a decision on petition filed under 37 C.F.R. §1.181 on **January 28, 2019** regarding a second restriction requirement made in an Office action mailed January 22, 2019, referred here after as "the second restriction".

This petition is **GRANTED-IN-PART**.

In the petition, Applicant's counsel indicated that the petition decision (mailed on November 8, 2018) should be respected and requested (1) withdrawal of the non-final Office action dated January 22, 2019 and issuance of a new non-final Office action that address all pending claims (1-64) in the application, (2) to clearly state on record that the election of claims 1-11 is with traverse, and (3) withdrawing any current of future restriction/election requirement.

RELEVANT PROSECUTION HISTORY

August 28, 2018	A restriction requirement was mailed. The restriction identified 17 groups as subcombinations usable together and a plurality of species.
September 13, 2018	Applicant provisionally elected group IV with traverse.
September 24, 2018	The restriction requirement was maintained in a non-final Office action.
October 2, 2018	A petition under 37 CFR 1.181 was filed requesting the withdrawal of the restriction requirement.
November 8, 2018	A granted petition was mailed requiring the withdrawal of the restriction requirement.

January 22, 2019	A non-final Office action was mailed with a restriction requirement and a rejection of claims 1-11.
January 28, 2019	A petition under 37 CFR 1.181 was filed requesting the withdrawal of the restriction requirement.

RULES AND REGULATIONS

37 C.F.R. § 1.141 states:

> (a) Two or more independent and distinct inventions may not be claimed in one national application, except that more than one species of an invention, not to exceed a reasonable number, may be specifically claimed in different claims in one national application, provided the application also includes an allowable claim generic to all the claimed species and all the claims to species in excess of one are written in dependent form (§ **1.75**) or otherwise include all the limitations of the generic claim.
>
> (b) Where claims to all three categories, product, process of making, and process of use, are included in a national application, a three way requirement for restriction can only be made where the process of making is distinct from the product. If the process of making and the product are not distinct, the process of using may be joined with the claims directed to the product and the process of making the product even though a showing of distinctness between the product and process of using the product can be made.

37 C.F.R. § 1.143 states:

> If the applicant disagrees with the requirement for restriction, he may request reconsideration and withdrawal or modification of the requirement, giving the reasons therefor. (See **§ 1.111**). In requesting reconsideration the applicant must indicate a provisional election of one invention for prosecution, which invention shall be the one elected in the event the requirement becomes final. The requirement for restriction will be reconsidered on such a request. If the requirement is repeated and made final, the examiner will at the same time act on the claims to the invention elected.

37 C.F.R. § 1.144 states:

> After a final requirement for restriction, the applicant, in addition to making any reply due on the remainder of the action, may petition the Commissioner to review the requirement … A petition will not be considered if reconsideration of the requirement was not requested (see **§ 1.181**).

37 C.F.R. § 1.145 states:

> If, after an office action on an application, the applicant presents claims directed to an invention distinct from and independent of the invention previously claimed, the applicant will be required to restrict the claims to the invention previously claimed if the amendment is entered, subject to reconsideration and review as provided in **§ § 1.143 and 1.144**.

37 C.F.R. § 1.181 states:

> (a) Petition may be taken to the Commissioner:
> (1) From any action or requirement of any examiner in the ex parte prosecution of an application, or in ex parte or inter partes prosecution of a reexamination proceeding which is not subject to appeal to the Board of Patent Appeals and Interferences or to the court;
> (2) In cases in which a statute or the rules specify that the matter is to be determined directly by or reviewed by the Commissioner; and
> (3) To invoke the supervisory authority of the Commissioner in appropriate circumstances. For petitions in interferences, see **§ 1.644**.
> (b) Any such petition must contain a statement of the facts involved and the point or points to be reviewed and the action requested. Briefs or memoranda, if any, in support thereof should accompany or be embodied in the petition; and where facts are to be proven, the proof in the form of affidavits or declarations (and exhibits, if any) must accompany the petition.
> (c) When a petition is taken from an action or requirement of an examiner in the ex parte prosecution of an application, or in the ex parte or inter partes prosecution of a reexamination proceeding, it may be required that there have been a proper request for reconsideration **(§ 1.111)** and a repeated action by the examiner. The examiner may be directed by the Commissioner to furnish a written statement, within a specified time, setting forth the reasons for his or her decision upon the matters averred in the petition, supplying a copy to the petitioner.

MPEP § 803 states:

> Under the statute an application may properly be required to be restricted to one of two or more claimed inventions only if they are able to support separate patents and they are either independent (**MPEP § 806.04 - § 806.04(i)**) or distinct (**MPEP § 806.05 - § 806.05(i)**).
> If the search and examination of an entire application can be made without serious burden, the examiner must examine it on the merits, even though it includes claims to independent or distinct inventions.
>
> CRITERIA FOR RESTRICTION BETWEEN PATENTABLY DISTINCT INVENTIONS
> There are two criteria for a proper requirement for restriction between patentably distinct inventions:

> (A) The inventions must be independent (see **MPEP § 802.01, § 806.04, § 808.01**) or distinct as claimed (see **MPEP § 806.05 - § 806.05(i)**); and
> (B) There must be a serious burden on the examiner if restriction is not required (see **MPEP § 803.02, § 806.04(a) - § 806.04(i), § 808.01(a), and § 808.02**).... For purposes of the initial requirement, a serious burden on the examiner may be *prima facie* shown if the examiner shows by appropriate explanation of separate classification, or separate status in the art, or a different field of search as defined in **MPEP § 808.02**....

MPEP § 808.01 states:

> The particular reasons relied on by the examiner for holding that the inventions as claimed are either independent or distinct should be concisely stated. A mere statement of conclusion is inadequate. The reasons upon which the conclusion is based should be given.

MPEP § 821.01 states:

> Where the initial requirement is traversed, it should be reconsidered. If, upon reconsideration, the examiner is still of the opinion that restriction is proper, it should be repeated and made final in the next Office action. (See MPEP § 803.01.) In doing so, the examiner should reply to the reasons or arguments advanced by applicant in the traverse. Form paragraph 8.25 should be used to make a restriction requirement final.

MPEP § 806.05(d): Subcombinations Usable Together

> Two or more claimed subcombinations, disclosed as usable together in a single combination, and which can be shown to be separately usable, are usually restrictable when the subcombinations do not overlap in scope and are not obvious variants.
>
> To support a restriction requirement where applicant separately claims plural subcombinations usable together in a single combination and claims a combination that requires the particulars of at least one of said subcombinations, both two-way distinctness and reasons for insisting on restriction are necessary. Each subcombination is distinct from the combination as claimed if:

- (A) the combination does not require the particulars of the subcombination as claimed for patentability (e.g., to show novelty and unobviousness), and
- (B) the subcombination can be shown to have utility either by itself or in another materially different combination.

Furthermore, restriction is only proper when there would be a serious burden if restriction were not required, as evidenced by separate classification, status, or field of search.

DECISION

37 C.F.R. § 1.181(c) requires that an action by an examiner, to be properly petitionable, must be followed by a request for reconsideration, and a repeated action by the examiner. 37 C.F.R. § 1.144 states that the applicant may petition the Commissioner after a final requirement for the restriction has been made.

In the above-identified application, applicant filed a first request for reconsideration, on September 13, 2018 in accordance with 37 C.F.R. § 1.143. Although the restriction (mailed August 28, 2018) was never made final in accordance with MPEP § 821.01, the initial restriction requirement was maintained in in the Non-final Office Action mailed on September 24, 2018. To expedite prosecution of this application, these Office communications, which maintained the restriction requirement, are being treated as a Final restriction requirement.

A petition decision was granted on November 8, 2018 indicating that the August 28, 2018 restriction was improper and that the application will be forwarded to the examiner for consideration on the merits of claims 1-64. To be clear, the granted petition decision does not prohibit the examiner from making a second or additional restriction requirement. In fact, MPEP § 811 indicates that a restriction requirement will normally be made before any action upon the merits; however it may be made at any time before final action.

The file record reveals that a non-final Office action including a second restriction was mailed on January 22, 2019 and a second petition was filed on January 28, 2019. An issue presented in the second petition is whether the second restriction is proper under the current regulations and practice under 37 C.F.R 141.

MPEP § 803 sets forth two criteria for a proper restriction requirement between patentably distinct inventions: (A) the inventions must be independent or distinct as claimed and (B) there must be a serious burden on the examiner.

The second restriction does not explain why the inventions are distinct and the examiner has not shown a serious burden would exist if restriction was not required. Additionally, the second restriction requirement is missing whether the election was made with or without traverse in accordance with MPEP 818. Therefore, the second restriction is incomplete or improper.

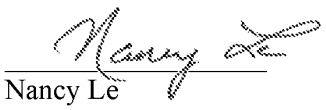
However, a review of the disclosure including the claims in the application reveals that a restriction requirement can be made. As a result, the Office cannot make an un-equivocal statement indicating that any future restriction requirement must be withdrawn or cannot be made. Moreover, as stated above, MPEP §811 indicates that a restriction may be made at any time before final action.

For the above-mentioned reasons the petition to withdraw the restriction is hereby **granted-in-part.**

The restriction requirement is hereby **WITHDRAWN**.

The application will be forwarded to the examiner for (1) withdrawal of the non-final Office action dated January 22, 2019 and issuance of a new non-final Office action including a complete restriction requirement if necessary, and (2) stating on record that an election to any applicable restriction is with or without traverse by the applicant.

Any inquiry regarding this decision may be directed to Chris Grant, Quality Assurance Specialist whose telephone number is (517) 272-7294.



Nancy Le
Director of Technology Center 2400
Networking, Multiplexing, Cable and Security

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

ATTY.'S DOCKET: BINDER-014-US7

In re Application of:	)	Confirmation No. 8906
	)	
Yehuda BINDER	)	Art Unit: 2456
	)	
Appln. No.: 15/992,221	)	Examiner: Khan, Hassan Abdu
	)	
Filed: May 30, 2018	)	Washington, D.C.
	)	
For: SYSTEM AND METHOD FOR SERVER BASED CONTROL	)	January 24, 2019
	)	

Mail Stop Petition,
Honorable Commissioner for Patents
U.S. Patent and Trademark Office
P.O. Box 1450
Alexandria, Virginia 22313-1450

Dear Honorable Commissioner:

Petition from requirement for restriction

A petition under 37 CFR 1.181 is hereby submitted to TC director from a non-final Action dated January 22, 2019, which includes an implicit requirement for restriction/election, after a decision in related petition from a requirement for restriction/election dated August 28, 2018, followed by a non-final action dated September 24, 2018.

Actions Requested

1. Withdrawal of the non-final action dated January 22, 2019, and issuance of a new non-final action that address ALL pending claims (1-64) in the application, and withdrawing ANY current of future restriction / election requirement.
2. To clearly state on record that the election of claims 1-11 is WITH TRAVERSE, for allowing the applicant to counter this requirement in future proceedings.

Statement of Facts Involved

1. This application was filed on May 30, 2018. A Requirement for restriction election was issued on August 28, 2018 (hereinafter - "Restriction"), and an election WITH TRAVERSE was filed on September 13, 2018. A non-final action confirming the traversed election was issued on September 24, 2018, **without any response to the traversal arguments raised.**
2. The "Requirement for restriction election" that was issued on August 28, 2018 restricted the **64 claims filed** into **17 groups**, some of the groups included **2-13 species**, totaling **44 combinations** to select from, where each combination includes **no more than 4 claims.**
3. A petition to withdraw the requirement for restriction was filed on October 2, 2018. The petition was GRANTED on November 8, 2018, explicitly stating that "*The application will be forwarded to the Examiner for consideration on the merits* ***of claims 1-64.***" (Emphasis added).
4. On an interview initiated by the Examiner, the Examiner notified the agent on record that a NEW and different restriction was decided, and the applicant chose claims 1-11. The applicant clearly stated at the call that he does NOT agree that ANY restriction should be made in general, and

according to the petition decision in particular, and the election was clearly WITH TRAVERSE.

5. An interview summary that was placed on file FAILED to mention that the election was WITH TRAVERSE.

6. A new non-final action regarding ONLY the elected claims 1-11 was issued on January 22, 2019. The non-final action stated in section 3 on page 2 that "… *thereafter, in response to the* ***updated restriction requirements*** *the Applicant elect claims 1-11* …" (Emphasis added).

Points to be Reviewed

1. The petition decision should be respected, thus no restriction should be made.

2. In contrast with the rules, this non-final action fails to explain or state the updated restriction requirement (such as what claims are part of which group/species) and the reasoning for restriction

3. If the new/updated restriction is approved (in contrast to the petition decision), a full explanation should be made according to the rules, for allowing the applicant to respond and counter this new restriction requirement.

Respectfully submitted,

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Amazon EX1003 Page 759

Electronic Acknowledgement Receipt

EFS ID:	34978259
Application Number:	15992221
International Application Number:	
Confirmation Number:	8906
Title of Invention:	SYSTEM AND METHOD FOR SERVER BASED CONTROL
First Named Inventor/Applicant Name:	Yehuda BINDER
Customer Number:	131926
Filer:	Yehuda Binder/Dorit Binder
Filer Authorized By:	Yehuda Binder
Attorney Docket Number:	BINDER-014-US7
Receipt Date:	28-JAN-2019
Filing Date:	30-MAY-2018
Time Stamp:	14:49:05
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Petition for review by the Technology Center SPRE	40G-SECOND-Petition-for-restriction.pdf	31655 c1c6dc7dad5496e0c770a935dd5ce99d9578e925	no	3

Warnings:

Information:	
Total Files Size (in bytes):	31655

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/992,221	05/30/2018	Yehuda BINDER	BINDER-014-US7	8906

131926 7590 01/22/2019

May Patents Ltd. c/o Dorit Shem-Tov
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Ramat-Gan, 5217102
ISRAEL

EXAMINER	
KHAN, HASSAN ABDUR-RAHMAN	

ART UNIT	PAPER NUMBER
2456	

MAIL DATE	DELIVERY MODE
01/22/2019	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	**Application No.** 15/992,221	**Applicant(s)** BINDER et al.	
	Examiner HASSAN A KHAN	**Art Unit** 2456	**AIA Status** No

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTHS FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☑ Responsive to communication(s) filed on 10/03/2018.

☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

2a)☐ This action is **FINAL.** 2b) ☑ This action is non-final.

3)☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.

4)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims*

5) ☑ Claim(s) 1-64 is/are pending in the application.

5a) Of the above claim(s) 12-64 is/are withdrawn from consideration.

6) ☐ Claim(s) _____ is/are allowed.

7) ☑ Claim(s) 1-11 is/are rejected.

8) ☐ Claim(s) _____ is/are objected to.

9) ☐ Claim(s) _____ are subject to restriction and/or election requirement

* If any claims have been determined allowable, you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to **PPHfeedback@uspto.gov.**

Application Papers

10)☐ The specification is objected to by the Examiner.

11)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

Certified copies:

a)☐ All b)☐ Some** c)☐ None of the:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

** See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☑ Notice of References Cited (PTO-892)

2) ☑ Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/SB/08b) Paper No(s)/Mail Date 11/19/2018.

3) ☑ Interview Summary (PTO-413) Paper No(s)/Mail Date 01/08/2019.

4) ☐ Other: _____.

DETAILED ACTION

Notice of Pre-AIA or AIA Status

1. The present application is being examined under the pre-AIA first to invent provisions.

2. Claims 1- 64 are pending.

Petition Decision and Election/Restrictions

3. In response to the petition filed on 10/02/2018, the decision on the petition is GRANTED on 11/08/2018, and thereafter, in response to the updated restriction requirements the Applicant elect Claims 1-11 over the phone on 01/08/2019. This is a Non-Final Rejection.

Priority

4. Applicant's claim for the benefit of a prior-filed continuation of application no. 15/361,434 filed on 11/27/2016, which is a DIV of application no. 13/733,634 filed on 01/03/2013, which has a provisional application no. 61/584,500 filed on 01/09/2012, 61/620,129 filed on 04/04/2012, 61/637,030 filed on 04/23/2012, and 61/647,034 filed on 05/15/2012 under 35 U.S.C. 119(e) is acknowledged.

Drawings

5. The applicant's submitted drawings are acceptable for examination purposes.

Information Disclosure Statement

6. The seven (7) information disclosure statements (IDS) submitted on 05/30/2018 and 11/19/2018 are in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statements has not being considered by the examiner.

Claim Rejections - 35 USC § 103

The following is a quotation of pre-AIA 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

> (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103 are summarized as follows:

1. Determining the scope and contents of the prior art.

2. Ascertaining the differences between the prior art and the claims at issue.

3. Resolving the level of ordinary skill in the pertinent art.

4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

This application currently names joint inventors. In considering patentability of the claims the examiner presumes that the subject matter of the various claims was commonly owned as of the effective filing date of the claimed invention(s) absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and effective filing dates of each claim that was not commonly owned as of the effective filing date of the later invention in order for the examiner to consider the applicability of 35 U.S.C. 102(b)(2)(C) for any potential 35 U.S.C. 102(a)(2) prior art against the later invention.

7. **Claims 1 - 11** are rejected under 35 U.S.C. 103 as being unpatentable over US Patent Application Publication No. 2016/0218884 to Ebrom et al. (hereinafter Ebrom), in view of US Patent Application Publication No. 2012/0325197 to Legaspi et al. (hereinafter Legaspi).

Regarding Claim 1, Ebrom discloses (in ¶0006) methods and apparatus for communicatively coupling internal components and accessories appliances, and appliances with external components and accessories that further includes:

an Alternating-Current (AC) powered appliance associated with food storage, handling, or preparation for use with a wireless network, the appliance comprising an AC connector for connecting the appliance to an AC power source; Ebrom discloses (in Figs. 1 and ¶0014) method of operating an appliance connected with a communications network (Fig. 22). Further, Ebrom discloses (in Figs. 34, 35 and ¶0313 – ¶0339, ¶1246) that the appliance is an AC powered appliance that is configured to perform an operation on a consumable physical article such as food using resources such as water, steam gas, electricity. The appliance 12 includes ovens, ranges, steam cookers, ice makers, refrigerators, drink makers, and they are connected to electrical power through a smart connector, which is a wired or wireless connector that has specialized circuitry, structural adaptations, hardware, and/or software that provide additional functionality beyond that of a conventional connector.

a current sensor coupled to the AC connector for measuring an AC current consumed by the appliance, wherein the current sensor is coupled to the wireless transceiver for transmitting digital data in response to the measured AC current to the wireless network; Ebrom discloses (in Figs. 34, 35 and ¶0313 – ¶0339) the smart connector and process control apparatus B14 that comprises of sensors (e.g. current sensor). Ebrom discloses (in ¶0237– ¶0256) a network connected energy controller and network connected appliances, where the energy controller can monitor the amount of energy used by each of the appliances, and can also control the operation of the appliances. A network connected smart

connector provides power management functionalities (e.g. AC/DC conversion) and the ability to control the amount of power drawn through the smart connector by communicating digital sensor and control data to the energy controller .

Ebrom does not explicitly disclose an antenna for communication over the wireless network, a wireless transceiver coupled to the antenna for transmitting digital data to, and for receiving digital data from, the wireless network, and a single enclosure housing, the antenna, and the wireless transceiver, wherein the appliance is controlled or activated in response to digital data received from the wireless network. However, in an analogous art, Legaspi teaches:

an antenna for communication over the wireless network, a wireless transceiver coupled to the antenna for transmitting digital data to, and for receiving digital data from, the wireless network, and a single enclosure housing, the antenna, and the wireless transceiver, wherein the appliance is controlled or activated in response to digital data received from the wireless network; Legaspi teaches (in Figs. 1, 5 and ¶0058-¶0077) a cross-sectional view of a remote control knob unit 500 of a kitchen stove having a wireless receiver module 512. The remote control knob directly engaged with the operational shaft of the cooking appliance 104, the operational shaft of the appliance for opening and closing a gas control valve, a thermal control switch and/or power supply used to operate the appliance 104. A wireless switchboard module 106 is communicatively coupled between the remote control knob unit 102 on the appliance 104 and a communication device 108. The communication device 108 is utilized to activate the switchboard module 106 causing the switchboard module 106 to transmit a signal to the remote control knob unit 102 which in turn may automatically turn or rotate the knob to the Off position. Located on the control knob is a decoder 503 compatible with an encoder of a transmitter module on a detector module or a transceiver. The decoder 503, when activated, provide power to a solenoid coil 505 of a solenoid locking mechanism 514, secured to the housing 504 of the remote control unit, through a power connector 507. The wireless receiver module 512 may receive a signal from a transmitter through a

specified frequency and communicate with the decoder 503 to power on the relay 509. A receiver module antenna 511 is secured to the printed circuit board 502 to avoid obstruction to when rotating the control knob unit 500.

It would have been obvious as of the effective filing date to one of ordinary skill in the art to combine an AC-powered appliance associated with food storage, handling, or preparation for use with a wireless network, the appliance comprising an AC connector for connecting the appliance to an AC power source, a current sensor coupled to the AC connector for measuring an AC current consumed by the appliance, wherein the current sensor is coupled to the wireless transceiver for transmitting digital data in response to the measured AC current to the wireless network, as disclosed by Ebrom, and an antenna for communication over the wireless network, a wireless transceiver coupled to the antenna for transmitting digital data to, and for receiving digital data from, the wireless network, and a single enclosure housing, the antenna, and the wireless transceiver, wherein the appliance is controlled or activated in response to digital data received from the wireless network, as taught by Legaspi, for the purpose of implementing systems and methods for automatically positioning a control knob unit to an Off position upon the occurrence of a safety event. Positioning the control knob unit to an off position causes the gas and/or electricity emanating from the appliances, such as from burners on a stove, to terminate (Legaspi, ¶0002).

Regarding Claim 2, the combination of Ebrom and Legaspi discloses all the elements with respect to claim 1. Further, the combination discloses:

wherein the primary function of the appliance is heating food; Ebrom teaches (¶0178) that the appliance can be any suitable appliance, such as a household appliance. Examples of household appliances include, but are not limited to, clothes washing machines, clothes dryers, ovens, dishwashers,

refrigerators, freezers, microwave ovens, trash compactors, and countertop appliances, such as waffle makers, toasters, blenders, mixers, food processors, coffee makers, and the like.

Regarding Claim 3, the combination of Ebrom and Legaspi discloses all the elements with respect to claim 2. Further, the combination discloses:

wherein the appliance comprises a microwave oven, an electric mixer, a stove, an oven, or an induction cooker; Ebrom teaches (¶0178) that the appliance can be any suitable appliance, such as a household appliance. Examples of household appliances include, but are not limited to, clothes washing machines, clothes dryers, ovens, dishwashers, refrigerators, freezers, microwave ovens, trash compactors, and countertop appliances, such as waffle makers, toasters, blenders, mixers, food processors, coffee makers, and the like.

Regarding Claim 4, the combination of Ebrom and Legaspi discloses all the elements with respect to claim 1. Further, the combination discloses:

wherein the primary function of the appliance is cooling food; Ebrom teaches (¶0178) that the appliance can be any suitable appliance, such as a household appliance. Examples of household appliances include, but are not limited to, clothes washing machines, clothes dryers, ovens, dishwashers, refrigerators, freezers, microwave ovens, trash compactors, and countertop appliances, such as waffle makers, toasters, blenders, mixers, food processors, coffee makers, and the like.

Regarding Claim 5, the combination of Ebrom and Legaspi discloses all the elements with respect to claim 4. Further, the combination discloses:

wherein the appliance comprises a refrigerator, a freezer, or an iced-tea maker; Ebrom teaches (¶0178) that the appliance can be any suitable appliance, such as a household appliance. Examples of

household appliances include, but are not limited to, clothes washing machines, clothes dryers, ovens, dishwashers, refrigerators, freezers, microwave ovens, trash compactors, and countertop appliances, such as waffle makers, toasters, blenders, mixers, food processors, coffee makers, and the like.

Regarding Claim 6, the combination of Ebrom and Legaspi discloses all the elements with respect to claim 1. Further, the combination discloses:

wherein the appliance comprises a dishwasher, a food blender, a beverage maker, or a coffeemaker; Ebrom teaches (¶0178) that the appliance can be any suitable appliance, such as a household appliance. Examples of household appliances include, but are not limited to, clothes washing machines, clothes dryers, ovens, dishwashers, refrigerators, freezers, microwave ovens, trash compactors, and countertop appliances, such as waffle makers, toasters, blenders, mixers, food processors, coffee makers, and the like.

Regarding Claim 7, the combination of Ebrom and Legaspi discloses all the elements with respect to claim 1. Further, the combination discloses:

further comprising in the single enclosure an electrically actuated switch connected to switch electric power to at least part of the appliance, wherein the electrically actuated switch is coupled to the wireless transceiver for being activated in response to digital data received from the wireless network; Legaspi teaches (in Fig. 1 and ¶0058 - ¶0059) a wireless switchboard module 106 communicatively coupled between the remote control knob unit 102 on the appliance 104 and a communication device 108. The communication device 108 may be wired or wirelessly connected to the wireless switchboard module 106 a. The communication device 108 may be utilized to activate the switchboard module 106 causing the switchboard module 106 to transmit a signal to the remote control knob unit 102 which in turn may automatically turn or rotate the knob to the off position. As shown, a

remote control knob unit 102 may be utilized to remotely operate a device, such as a cooking appliance 104. The remote control knob unit 102 may include a control knob directly engaged with the operational shaft of the cooking appliance 104, the operational shaft of the appliance for opening and closing a gas control valve, a thermal control switch and/or power supply used to operate the appliance 104.

Regarding Claim 8, the combination of Ebrom and Legaspi discloses all the elements with respect to claim 7. Further, the combination discloses:

wherein the electrically actuated switch is 'normally open' type, 'normally closed' type, or a changeover switch, wherein the electrically actuated switch is 'make-before-break' or 'break-before-make' type, or wherein the electrically actuated switch have two or more poles or two or more throws, and contacts of the electrically actuated switch are arranged as a Single-Pole-Double-Throw (SPDT), Double-Pole-Double-Throw (DPDT), Double-Pole-Single-Throw (DPST), or Single-Pole-Changeover (SPCO); Legaspi teaches (in ¶0103) a Single-Pole-Double-Throw (SPDT) relay switch 1610.

Regarding Claim 9, the combination of Ebrom and Legaspi discloses all the elements with respect to claim 7. Further, the combination discloses:

wherein the electrically actuated switch is a latching or a non-latching type relay; Legaspi teaches (in Figs. 3-6 and ¶0014) that the locking mechanism may comprise a mechanism housing with a latching rod slidably disposed within the mechanism housing and movable between a first position and a second position, wherein the latching rod engages the plurality of teeth of the sprocket when moved from the first position to the second position causing the sprocket to rotate, and a locking spring surrounding the latching rod and adapted to move the latching rod between the first and second positions, and a solenoid coil surrounding the locking spring and rotating, where an electrical current applied to the

solenoid coil energizes the solenoid coil generating a magnetic field biasing the latching rod between the first and second positions.

Regarding Claim 10, the combination of Ebrom and Legaspi discloses all the elements with respect to claim 9. Further, the combination discloses:

wherein the relay is a solenoid-based electromagnetic relay that is a reed relay, wherein the relay is solid-state or semiconductor based, or wherein the relay is a Solid State Relay (SSR); Legaspi teaches (in Figs. 5 and ¶0075-¶0076) the decoder 503, when activated, may energize a relay 509, located on the printed circuit board (i.e. semiconductor based) 502, providing power to a solenoid coil 505 of a solenoid locking mechanism 514, secured to the housing 504 of the remote control unit, through a power connector 507. The solenoid locking mechanism 514 may include a latching rod 506 slidably disposed within a housing 516 of the mechanism 514 and movable between a first position and a second position.

Regarding Claim 11, the combination of Ebrom and Legaspi discloses all the elements with respect to claim 7. Further, the combination discloses:

wherein the electrically actuated switch is based on an electrical circuit that comprises an open collector transistor, an open drain transistor, a thyristor, a TRIAC, or an opto-isolator; Legaspi teaches (in ¶0068 and Fig. 16) an electrically actuated switch such as the transistor 1608.

Response to Arguments

Election/Restrictions

8. Applicant's arguments for their election with traverse (on 10/03/2018) of Claims 1-64 is acknowledged. In response to the petition filed on 10/02/2018, the decision on the petition is GRANTED

on 11/08/2018, and thereafter, in response to the updated restriction requirements the Applicant elect Claims 1-11 over the phone on 01/08/2019. Hence, the arguments are moot. This is a Non-Final Rejection.

Claim Rejections - 35 USC § 112

9. Applicant's arguments and amendments, filed on 10/03/2018 with respect to Claims 1-64 have been fully considered and the 35 USC § 112 rejection is withdrawn.

Claim Rejections - 35 USC § 101

10. Applicant's arguments and amendments, filed on 10/03/2018 with respect to Claims 1-64 have been fully considered and the 35 USC § 101 rejection is withdrawn.

Claim Rejections - 35 USC § 103

11. Applicant's arguments and amendments, filed on 10/03/2018 with respect to Claims 1-64 have been fully considered and the 35 USC § 103 rejection is maintained.

In response to applicant argument, *"the rejection is vague and unclear since it provides no more than copies passages from the references,"* the Office notes that the combination of the references teaches each and every limitation CLEARLY and with DISTINCT citation to the references. For specific questions on the mapping of a certain feature or element, the applicant can contact the Office.

In response to applicant argument, *"the rejection is vague and unclear since it provides no more than copies passages from the references,"* the Office notes that the combination of the references teaches each and every limitation CLEARLY and with DISTINCT citation to the references.

In response to applicant argument, *"the Ebrom reference cannot serve as prior art to this application,"* the Office notes that Figs. 34-35 of the Ebrom reference were originally cited as Figs. 1, 2 in the parent application 12/256,555 (US 2009/0046715) filed on 10/23/2008. The argument is moot.

In response to applicant argument, *"the references are not analogous to one another and cannot logically be combined,"* the Office notes that Ebrom discloses (in ¶0006) methods and apparatus for communicatively coupling internal components and sensors within appliances, and appliances with the external components via network, and Legaspi teaches (¶0002) systems and methods for automatically controlling the appliance actuators control systems via network (Legaspi, ¶0002). The references are analogous since the automatic controlling of the actuator in the appliance over the network, as taught by Legaspi, is improving the sensor based appliance system connected over the network as defined in Ebrom.

In response to applicant argument, *"it is not clear HOW the primary reference is modified,"* the Office notes that Ebrom discloses (in ¶0006) sensor within appliances, and appliances are connected with the communication network, whereas Legaspi teaches (¶0002) systems and methods for automatically controlling the appliance actuators control systems via network (Legaspi, ¶0002). The references are analogous since the automatic controlling of the actuator, as taught by Legaspi, is improving the sensor based appliance network system as defined in Ebrom.

Conclusion

12. Any inquiry concerning this communication or earlier communications from the examiner should be directed to HASSAN KHAN whose telephone number is (313) 446-6574 and fax number is (571) 483-7559. The examiner can normally be reached on MONDAY - THURSDAY. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor Philip Chea can be reached on (571) 272-3951. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/HASSAN A KHAN/
Examiner, Art Unit 2456

/RICHARD G KEEHN/
Primary Examiner, Art Unit 2456

Applicant-Initiated Interview Summary	**Application No.** 15/992,221	**Applicant(s)** BINDER et al.	
	Examiner HASSAN A KHAN	**Art Unit** 2456	**AIA Status** No

All participants (applicant, applicants representative, PTO personnel):

(1) Examiner Hassan Khan. (3) _____.

(2) Yehuda Binder (REG. # 73,612). (4) _____.

Date of Interview: 08 January 2019.

Type: ☑ Telephonic ☐ Video Conference
☐ Personal [copy given to: ☐ applicant ☐ applicant's representative]

Exhibit shown or demonstration conducted: ☐ Yes ☑ No.
If Yes, brief description: _____.

Issues Discussed ☐101 ☐112 ☐102 ☐103 ☑Others
(For each of the checked box(es) above, please describe below the issue and detailed description of the discussion)

Claim(s) discussed: 1-11.

Identification of prior art discussed: _____.

Substance of Interview
(For each issue discussed, provide a detailed description and indicate if agreement was reached. Some topics may include: identification or clarification of a reference or a portion thereof, claim interpretation, proposed amendments, arguments of any applied references etc...)

The examiner discussed the new restriction options as per the Petition Decision by the Technology Director, and a verbal election of Claims 1-11 was made by the applicant over the phone..

Applicant recordation instructions: The formal written reply to the last Office action must include the substance of the interview. (See MPEP section 713.04). If a reply to the last Office action has already been filed, applicant is given a non-extendable period of the longer of one month or thirty days from this interview date, or the mailing date of this interview summary form, whichever is later, to file a statement of the substance of the interview

Examiner recordation instructions: Examiners must summarize the substance of any interview of record. A complete and proper recordation of the substance of an interview should include the items listed in MPEP 713.04 for complete and proper recordation including the identification of the general thrust of each argument or issue discussed, a general indication of any other pertinent matters discussed regarding patentability and the general results or outcome of the interview, to include an indication as to whether or not agreement was reached on the issues raised.

☐ Attachment

/HASSAN A KHAN/ Examiner, Art Unit 2456	

Summary of Record of Interview Requirements

Manual of Patent Examining Procedure (MPEP), Section 713.04, Substance of Interview Must be Made of Record
A complete written statement as to the substance of any face-to-face, video conference, or telephone interview with regard to an application must be made of record in the application whether or not an agreement with the examiner was reached at the interview.

Title 37 Code of Federal Regulations (CFR) 1.133 Interviews
Paragraph (b)

In every instance where reconsideration is requested in view of an interview with an examiner, a complete written statement of the reasons presented at the interview as warranting favorable action must be filed by the applicant. An interview does not remove the necessity for reply to Office action as specified in §§ 1.111, 1.135. (35 U.S.C. 132)

37 CFR §1.2 Business to be transacted in writing.
All business with the Patent or Trademark Office should be transacted in writing. The personal attendance of applicants or their attorneys or agents at the Patent and Trademark Office is unnecessary. The action of the Patent and Trademark Office will be based exclusively on the written record in the Office. No attention will be paid to any alleged oral promise, stipulation, or understanding in relation to which there is disagreement or doubt.

The action of the Patent and Trademark Office cannot be based exclusively on the written record in the Office if that record is itself incomplete through the failure to record the substance of interviews.

It is the responsibility of the applicant or the attorney or agent to make the substance of an interview of record in the application file, unless the examiner indicates he or she will do so. It is the examiners responsibility to see that such a record is made and to correct material inaccuracies which bear directly on the question of patentability.

Examiners must complete an Interview Summary Form for each interview held where a matter of substance has been discussed during the interview by checking the appropriate boxes and filling in the blanks. Discussions regarding only procedural matters, directed solely to restriction requirements for which interview recordation is otherwise provided for in Section 812.01 of the Manual of Patent Examining Procedure, or pointing out typographical errors or unreadable script in Office actions or the like, are excluded from the interview recordation procedures below. Where the substance of an interview is completely recorded in an Examiners Amendment, no separate Interview Summary Record is required.

The Interview Summary Form shall be given an appropriate Paper No., placed in the right hand portion of the file, and listed on the "Contents" section of the file wrapper. In a personal interview, a duplicate of the Form is given to the applicant (or attorney or agent) at the conclusion of the interview. In the case of a telephone or video-conference interview, the copy is mailed to the applicants correspondence address either with or prior to the next official communication. If additional correspondence from the examiner is not likely before an allowance or if other circumstances dictate, the Form should be mailed promptly after the interview rather than with the next official communication.

The Form provides for recordation of the following information:
- Application Number (Series Code and Serial Number)
- Name of applicant
- Name of examiner
- Date of interview
- Type of interview (telephonic, video-conference, or personal)
- Name of participant(s) (applicant, attorney or agent, examiner, other PTO personnel, etc.)
- An indication whether or not an exhibit was shown or a demonstration conducted
- An identification of the specific prior art discussed
- An indication whether an agreement was reached and if so, a description of the general nature of the agreement (may be by attachment of a copy of amendments or claims agreed as being allowable). Note: Agreement as to allowability is tentative and does not restrict further action by the examiner to the contrary.
- The signature of the examiner who conducted the interview (if Form is not an attachment to a signed Office action)

It is desirable that the examiner orally remind the applicant of his or her obligation to record the substance of the interview of each case. It should be noted, however, that the Interview Summary Form will not normally be considered a complete and proper recordation of the interview unless it includes, or is supplemented by the applicant or the examiner to include, all of the applicable items required below concerning the substance of the interview.

A complete and proper recordation of the substance of any interview should include at least the following applicable items:
1) A brief description of the nature of any exhibit shown or any demonstration conducted,-
2) an identification of the claims discussed,
3) an identification of the specific prior art discussed,
4) an identification of the principal proposed amendments of a substantive nature discussed, unless these are already described on the Interview Summary Form completed by the Examiner,
5) a brief identification of the general thrust of the principal arguments presented to the examiner,
   (The identification of arguments need not be lengthy or elaborate. A verbatim or highly detailed description of the arguments is not required. The identification of the arguments is sufficient if the general nature or thrust of the principal arguments made to the examiner can be understood in the context of the application file. Of course, the applicant may desire to emphasize and fully describe those arguments which he or she feels were or might be persuasive to the examiner.)
6) a general indication of any other pertinent matters discussed, and
7) if appropriate, the general results or outcome of the interview unless already described in the Interview Summary Form completed by the examiner.

Examiners are expected to carefully review the applicants record of the substance of an interview. If the record is not complete and accurate, the examiner will give the applicant an extendable one month time period to correct the record.

Examiner to Check for Accuracy

If the claims are allowable for other reasons of record, the examiner should send a letter setting forth the examiners version of the statement attributed to him or her. If the record is complete and accurate, the examiner should place the indication, Interview Record OK on the paper recording the substance of the interview along with the date and the examiners initials.

Notice of References Cited	Application/Control No. 15/992,221	Applicant(s)/Patent Under Reexamination	
	Examiner HASSAN A KHAN	Art Unit 2456	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
*	A	US-20170272316-A1	09-2017	Johnson; Michael W.	H04L61/301	1/1
*	B	US-20180253069-A1	09-2018	Raji; Reza	G06Q30/02	1/1
*	C	US-20160218884-A1	07-2016	EBROM; Matthew P.	D06F33/02	1/1
*	D	US-20110251807-A1	10-2011	Rada; Patrick A.	G01D4/00	702/61
*	E	US-20120228952-A1	09-2012	Hall; Katherine L.	H03H7/40	307/104
*	F	US-20140170275-A1	06-2014	Bordin; Domenic	G09B19/24	426/233
*	G	US-20150226439-A1	08-2015	Mikulec; Conrad S.	F24C15/2021	99/337
*	H	US-20120325197-A1	12-2012	Legaspi; Ferdinand Villegas	F23N5/242	126/42
*	I	US-20090183729-A1	07-2009	Barkhouse; Sydney	A47J27/62	126/39BA
*	J	US-20080130520-A1	06-2008	Ebrom; Matthew P.	G06F9/54	370/254
*	K	US-20090046715-A1	02-2009	MCCOY; RICHARD A.	G06F9/54	370/389
*	L	US-20130235197-A1	09-2013	EBROM; MATTHEW P.	G06F9/54	348/143
	M					

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	CPC Classification
	N					
	O					
	P					
	Q					
	R					
	S					
	T					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	
	V	
	W	
	X	

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	15/992,221	BINDER et al.
	Examiner	Art Unit
	HASSAN A KHAN	2456

CPC - Searched*		
Symbol	**Date**	**Examiner**
H04L67/12,B60K31/00,B60K31/18,B60Y2200/11,B60Y2200/12, B60Y2200/126,B60Y2200/13,B60Y2200/30,B60Y2200/40,B60Y2200/50 ,B60Y2200/90,G01C21/00,G06Q2240/00,G07C5/008,G08G1/00 (combined with text search)	09/21/2018	H.K.
H04L67/12,B60K31/00,B60K31/18,B60Y2200/11,B60Y2200/12, B60Y2200/126,B60Y2200/13,B60Y2200/30,B60Y2200/40,B60Y2200/50 ,B60Y2200/90,G01C21/00,G06Q2240/00,G07C5/008,G08G1/00 (combined with text search)	01/11/2019	H.K.

CPC Combination Sets - Searched*		
Symbol	**Date**	**Examiner**

US Classification - Searched*			
Class	**Subclass**	**Date**	**Examiner**
709	218 (combined with text search)	09/21/2018	H.K.
709	218 (combined with text search)	01/11/2019	H.K.

* See search history printout included with this form or the SEARCH NOTES box below to determine the scope of the search.

Search Notes		
Search Notes	**Date**	**Examiner**
Inventor search conducted (see EAST search history)	09/21/2018	H.K.
Google Patents search conducted	09/20/2018	H.K.
Assignee search conducted (see EAST search history)	09/21/2018	H.K.
EAST search history (see attached)	09/21/2018	H.K.
Inventor search conducted (see EAST search history)	01/11/2019	H.K.
Assignee search conducted (see EAST search history)	01/11/2019	H.K.
EAST search history (see attached)	01/11/2019	H.K.

/HASSAN A KHAN/ Examiner, Art Unit 2456	

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	15/992,221	BINDER et al.
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	HASSAN A KHAN	2456

Interference Search			
US Class/CPC Symbol	US Subclass/CPC Group	Date	Examiner

/HASSAN A KHAN/ Examiner, Art Unit 2456	

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	15/992,221	BINDER et al.
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	HASSAN A KHAN	2456

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

CLAIMS

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIM		DATE								
Final	Original	08/15/2018	09/21/2018	01/11/2019						
	1	÷	✓	✓						
	2	÷	N	✓						
	3	÷	N	✓						
	4	÷	N	✓						
	5	÷	N	✓						
	6	÷	N	✓						
	7	÷	✓	✓						
	8	÷	N	✓						
	9	÷	✓	✓						
	10	÷	✓	✓						
	11	÷	N	✓						
	12	÷	N	N						
	13	÷	N	N						
	14	÷	N	N						
	15	÷	N	N						
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	39	÷	N	N						
	40	÷	N	N						
	41	÷	N	N						
	42	÷	N	N						

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CLAIM		DATE								
Final	Original	08/15/2018	09/21/2018	01/11/2019						
	43	÷	N	N						
	44	÷	N	N						
	45	÷	N	N						
	46	÷	N	N						
	47	÷	N	N						
	48	÷	N	N						
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	59	÷	N	N						
	60	÷	N	N						
	61	÷	N	N						
	62	÷	N	N						
	63	÷	N	N						
	64	÷	N	N						

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L5	5774	709/218.ccls.	US-PGPUB; USPAT	OR	ON	2019/01/11 16:17
L6	17742	H04L67/12.cpc.	US-PGPUB; USPAT	OR	ON	2019/01/11 16:17
L7	108919	B60K 31/00.cpc. B60K 31/18.cpc. B60Y2200/11.cpc. B60Y2200/12.cpc. B60Y2200/126.cpc. B60Y2200/13.cpc. B60Y2200/30.cpc. B60Y2200/40.cpc. B60Y2200/50.cpc. B60Y2200/90.cpc. G01C 21/00.cpc. G06Q2240/00.cpc. G07C 5/008.cpc. G08G 1/00.cpc.	US-PGPUB; USPAT	OR	ON	2019/01/11 16:17
L8	49	(maytal and benjamin).in.	US-PGPUB; USPAT	OR	ON	2019/01/11 16:17
L9	408	(binder and yehuda).in.	US-PGPUB; USPAT	OR	ON	2019/01/11 16:17
L10	64	(may and patents).aanm.	US-PGPUB; USPAT	OR	ON	2019/01/11 16:17
L11	48	(may and patents).as.	US-PGPUB; USPAT	OR	ON	2019/01/11 16:17
L12	448	L8 L9 L10 L11	US-PGPUB; USPAT	OR	ON	2019/01/11 16:17
L13	130841	L5 or L6 or L7 or L12	US-PGPUB; USPAT	OR	ON	2019/01/11 16:17
L14	5	L13 and (relay with solenoid with reed).clm.	US-PGPUB; USPAT	OR	ON	2019/01/11 16:17
S1	1	"13733634"	US-PGPUB; USPAT	ADJ	ON	2016/12/03 01:33
S2	7358	(actuator with sensor with network)	US-PGPUB; USPAT	ADJ	ON	2016/12/03 01:34
S3	161	(actuator with sensor with network with router)	US-PGPUB; USPAT	ADJ	ON	2016/12/03 01:34
S4	14	(actuator with sensor with network with router with (car or vehicle))	US-PGPUB; USPAT	ADJ	ON	2016/12/03 01:34
S5	1020	(actuator with sensor with network with (car or vehicle))	US-PGPUB;	ADJ	ON	2016/12/03 01:37

			USPAT			
S6	535	S5 and (router or routing)	US-PGPUB; USPAT	ADJ	ON	2016/12/03 01:38
S7	147	S5 and (NAT or DHCP)	US-PGPUB; USPAT	ADJ	ON	2016/12/03 01:38
S8	54	S5 and (control adj2 logic)	US-PGPUB; USPAT	ADJ	ON	2016/12/03 01:39
S9	7358	(actuator with sensor with network)	US-PGPUB; USPAT	ADJ	ON	2016/12/03 01:48
S10	675	S9 and (piezoelectric$6 or (piezo$1electric$6))	US-PGPUB; USPAT	ADJ	ON	2016/12/03 01:49
S11	120	S10 and (network with (routing or router))	US-PGPUB; USPAT	ADJ	ON	2016/12/03 01:49
S12	58	S11 and (vehicle or car)	US-PGPUB; USPAT	ADJ	ON	2016/12/03 01:49
S13	21	(US-20130201316-$ or US-20100030421-$ or US-20120303216-$ or US-20140188343-$ or US-20140236384-$ or US-20070076593-$ or US-20100211258-$ or US-20080100428-$ or US-20060111825-$ or US-20100148940-$ or US-20100201516-$ or US-20110035491-$ or US-20150046582-$).did. or (US-8140658-$ or US-7844687-$ or US-7797367-$ or US-7020701-$ or US-6859831-$ or US-6832251-$ or US-6826607-$ or US-6735630-$).did.	US-PGPUB; USPAT	ADJ	ON	2017/02/13 22:08
S14	21	S13 and actuator	US-PGPUB; USPAT	ADJ	ON	2017/02/13 22:08
S15	1	S13 and (actuator same router)	US-PGPUB; USPAT	ADJ	ON	2017/02/13 22:08
S16	200	(actuator same router same ((vehicle or car or automobile or transport) or (building)))	US-PGPUB; USPAT	ADJ	ON	2017/02/13 22:11
S17	119	(actuator same router same ((vehicle or car or automobile or transport) or (building))) same network	US-PGPUB; USPAT	ADJ	ON	2017/02/13 22:12
S18	110	(actuator same router same ((vehicle or car or automobile or transport) or (building))) same network same sensor	US-PGPUB; USPAT	ADJ	ON	2017/02/13 22:12
S19	76	(actuator same router same ((vehicle or car or automobile or transport) or (building))) same network same (sensor or control) same data	US-PGPUB; USPAT	ADJ	ON	2017/02/13 22:12
S20	68	(actuator same router same ((vehicle or car or automobile) or (building))) same network same (sensor or control) same data	US-PGPUB; USPAT	ADJ	ON	2017/02/13 22:13
S21	21	(actuator same router same ((vehicle or	US-	ADJ	ON	2017/02/13

		car or automobile) same (building))) same network same (sensor or control) same data	PGPUB; USPAT			22:15
S22	21	actuator same router same (vehicle or car or automobile) same building same network same (sensor or control) same data	US-PGPUB; USPAT	ADJ	ON	2017/02/13 22:15
S23	47	S20 XOR S22	US-PGPUB; USPAT	ADJ	ON	2017/02/13 22:17
S24	1	(US-8195844-$).did.	USPAT	ADJ	ON	2017/02/13 22:36
S25	1	"20090083589"	USPAT	ADJ	ON	2017/02/13 22:36
S36	1	(US-20130201316-$).did.	US-PGPUB	ADJ	ON	2017/02/14 00:34
S37	520	(home with network) same sensor same gateway same network	US-PGPUB	ADJ	ON	2017/02/14 00:37
S38	222	(home with network) with sensor with gateway	US-PGPUB	ADJ	ON	2017/02/14 00:37
S39	4	(home with network) with sensor with gateway with command	US-PGPUB	ADJ	ON	2017/02/14 00:38
S40	22	(US-20130201316-$ or US-20100030421-$ or US-20120303216-$ or US-20140188343-$ or US-20140236384-$ or US-20070076593-$ or US-20100211258-$ or US-20080100428-$ or US-20060111825-$ or US-20100148940-$ or US-20100201516-$ or US-20110035491-$ or US-20150046582-$ or US-20160062330-$).did. or (US-8140658-$ or US-7844687-$ or US-7797367-$ or US-7020701-$ or US-6859831-$ or US-6832251-$ or US-6826607-$ or US-6735630-$).did.	US-PGPUB; USPAT	ADJ	ON	2017/02/14 03:23
S41	21	S40 and (vehicle or vehical or automobile or car)	US-PGPUB; USPAT	ADJ	ON	2017/02/14 03:29
S42	21	S40 and (vehicle or vehical or automobile or car) and actuator	US-PGPUB; USPAT	ADJ	ON	2017/02/14 03:29
S43	15	S40 and (vehicle or vehical or automobile or car) and actuator and sensor and network and cellular and wireless	US-PGPUB; USPAT	ADJ	ON	2017/02/14 03:30
S44	15	S40 and (coupled)	US-PGPUB; USPAT	ADJ	ON	2017/02/14 03:35
S45	1	S40 and (router)	US-PGPUB; USPAT	ADJ	ON	2017/02/14 03:36
S46	832	(vehicle or car) with router with (control or server) with network	US-PGPUB; USPAT	ADJ	ON	2017/02/14 03:37
S47	11	(vehicle or car) with router with (control or server) with network with actuator	US-PGPUB; USPAT	ADJ	ON	2017/02/14 03:37
S48	2	"20090198380"	US-PGPUB;	ADJ	ON	2017/02/14 03:42

			USPAT			
S49	1	"20060217840"	US-PGPUB; USPAT	ADJ	ON	2017/02/14 03:42
S50	7	(US-20160062330-$ or US-20090198380-$ or US-20060217840-$ or US-20150295788-$ or US-20160344745-$ or US-20150046582-$ or US-20100030421-$).did.	US-PGPUB	ADJ	ON	2017/02/17 04:34
S51	4	S50 and (actuator with sensor)	US-PGPUB; USPAT	ADJ	ON	2017/02/17 04:34
S52	4	S50 and (actuator)	US-PGPUB; USPAT	ADJ	ON	2017/02/17 04:36
S53	3	"13404575"	US-PGPUB; USPAT	ADJ	ON	2017/02/17 04:38
S54	2	S50 and (sensor with router)	US-PGPUB; USPAT	ADJ	ON	2017/02/17 04:39
S55	27	(US-20130201316-$ or US-20100030421-$ or US-20120303216-$ or US-20140188343-$ or US-20140236384-$ or US-20070076593-$ or US-20100211258-$ or US-20080100428-$ or US-20060111825-$ or US-20100148940-$ or US-20100201516-$ or US-20110035491-$ or US-20150046582-$ or US-20160062330-$ or US-20060217840-$ or US-20090198380-$ or US-20150295788-$ or US-20160344745-$ or US-20120253480-$).did. or (US-8140658-$ or US-7844687-$ or US-7797367-$ or US-7020701-$ or US-6859831-$ or US-6832251-$ or US-6826607-$ or US-6735630-$).did.	US-PGPUB; USPAT	ADJ	ON	2017/02/17 04:39
S56	3	S55 and (sensor with router)	US-PGPUB; USPAT	ADJ	ON	2017/02/17 04:39
S57	319	(actuator with sensor with router)	US-PGPUB; USPAT	ADJ	ON	2017/02/17 04:40
S58	178	(actuator NEAR9 sensor NEAr9 router)	US-PGPUB; USPAT	ADJ	ON	2017/02/17 04:40
S59	125	(actuator with sensor with router with (command or signal or transmi$6 or data))	US-PGPUB; USPAT	ADJ	ON	2017/02/17 04:41
S60	7	(US-20160062330-$ or US-20090198380-$ or US-20060217840-$ or US-20150295788-$ or US-20160344745-$ or US-20150046582-$ or US-20100030421-$).did.	US-PGPUB	ADJ	ON	2017/02/17 21:05
S61	2	S60 and (router with (building or vehicle or car))	US-PGPUB; USPAT	ADJ	ON	2017/02/17 21:06
S62	2	S60 and (router with (building or vehicle or car) with sensor)	US-PGPUB;	ADJ	ON	2017/02/17 21:06

			USPAT			
S63	524	(router with (building or vehicle or car) with sensor)	US-PGPUB; USPAT	ADJ	ON	2017/02/17 21:06
S64	96	(router near9 (building or vehicle or car) near5 sensor)	US-PGPUB; USPAT	ADJ	ON	2017/02/17 21:07
S65	28	(router near9 (building or vehicle or car) near9 sensor near9 network)	US-PGPUB; USPAT	ADJ	ON	2017/02/17 21:07
S66	1	(US-20130201316-$).did.	US-PGPUB	ADJ	ON	2017/02/17 21:11
S67	28	(US-20130201316-$ or US-20100030421-$ or US-20120303216-$ or US-20140188343-$ or US-20140236384-$ or US-20070076593-$ or US-20100211258-$ or US-20080100428-$ or US-20060111825-$ or US-20100148940-$ or US-20100201516-$ or US-20110035491-$ or US-20150046582-$ or US-20160062330-$ or US-20060217840-$ or US-20090198380-$ or US-20150295788-$ or US-20160344745-$ or US-20120253480-$ or US-20070283005-$).did. or (US-8140658-$ or US-7844687-$ or US-7797367-$ or US-7020701-$ or US-6859831-$ or US-6832251-$ or US-6826607-$ or US-6735630-$).did.	US-PGPUB; USPAT	ADJ	ON	2017/02/20 05:11
S68	27	S67 and (control with (actuator or sensor))	US-PGPUB; USPAT	ADJ	ON	2017/02/20 05:11
S69	22	S67 and (control NEAR0 (actuator or sensor))	US-PGPUB; USPAT	ADJ	ON	2017/02/20 05:11
S70	26	S67 and (control NEAR9 (actuator or sensor))	US-PGPUB; USPAT	ADJ	ON	2017/02/20 05:11
S71	9	S67 and (command NEAR9 (actuator or sensor))	US-PGPUB; USPAT	ADJ	ON	2017/02/20 05:15
S72	2	(US-20160062330-$ or US-20070283005-$).did.	US-PGPUB	ADJ	ON	2017/02/20 06:05
S73	1	S72 and ((additional or extra or second or third) with sensor)	US-PGPUB	ADJ	ON	2017/02/20 06:29
S74	28	(US-20130201316-$ or US-20100030421-$ or US-20120303216-$ or US-20140188343-$ or US-20140236384-$ or US-20070076593-$ or US-20100211258-$ or US-20080100428-$ or US-20060111825-$ or US-20100148940-$ or US-20100201516-$ or US-20110035491-$ or US-20150046582-$ or US-20160062330-$ or US-20060217840-$ or US-20090198380-$ or US-20150295788-$ or US-20160344745-$ or US-20120253480-$ or US-20070283005-$).did. or (US-8140658-$ or US-7844687-$ or US-7797367-$ or US-7020701-$ or US-6859831-$ or US-6832251-$ or US-6826607-$ or US-6735630-$).did.	US-PGPUB; USPAT	ADJ	ON	2017/02/20 06:30

S75	12	S74 and ((additional or extra or second or third) with sensor)	US-PGPUB	ADJ	ON	2017/02/20 06:31
S76	2	S72 and ((more) with sensor)	US-PGPUB	ADJ	ON	2017/02/20 06:32
S77	5	S74 and piezoelectric	US-PGPUB	ADJ	ON	2017/02/20 06:43
S78	2	S72 and (IP or address or internet or protocol)	US-PGPUB	ADJ	ON	2017/02/20 06:56
S79	2	S74 and (DHCP and (IPv4 or IPv6))	US-PGPUB	ADJ	ON	2017/02/20 07:02
S80	146	(control$6 with (sensor or actuator) with network) and (DHCP and (IPv4 or IPv6))	US-PGPUB	ADJ	ON	2017/02/20 07:04
S81	69	(control$6 with (sensor or actuator) with network) and (DHCP with (IPv4 or IPv6))	US-PGPUB	ADJ	ON	2017/02/20 07:04
S82	1	(US-20130201316-$).did.	US-PGPUB	ADJ	ON	2017/02/20 07:12
S83	36	S81 and zigbee	US-PGPUB	ADJ	ON	2017/02/20 07:21
S84	9	S81 and zigbee and (temperature with sensor)	US-PGPUB	ADJ	ON	2017/02/20 07:22
S85	36	S81 and zigbee and (sensor)	US-PGPUB	ADJ	ON	2017/02/20 07:22
S86	15	S81 and zigbee and (temperature)	US-PGPUB	ADJ	ON	2017/02/20 07:22
S87	12	S81 and zigbee and (temperature) and (DHCP with assign$6)	US-PGPUB	ADJ	ON	2017/02/20 07:23
S88	3	(US-20120253480-$ or US-20100071053-$ or US-20070283005-$).did.	US-PGPUB	ADJ	ON	2017/02/21 02:26
S89	1	S88 and (IP with assign$6)	US-PGPUB; USPAT	ADJ	ON	2017/02/21 02:28
S90	3	S88 and (power)	US-PGPUB; USPAT	ADJ	ON	2017/02/21 02:34
S91	32	(US-20130201316-$ or US-20100030421-$ or US-20120303216-$ or US-20140188343-$ or US-20140236384-$ or US-20070076593-$ or US-20100211258-$ or US-20080100428-$ or US-20060111825-$ or US-20100148940-$ or US-20100201516-$ or US-20110035491-$ or US-20150046582-$ or US-20160062330-$ or US-20060217840-$ or US-20090198380-$ or US-20150295788-$ or US-20160344745-$ or US-20120253480-$ or US-20070283005-$ or US-20100071053-$ or US-20130091254-$ or US-20140286348-$ or US-20130091279-$).did. or (US-8140658-$ or US-7844687-$ or US-7797367-$ or US-7020701-$ or US-6859831-$ or US-6832251-$ or US-6826607-$ or US-6735630-$).did.	US-PGPUB; USPAT	ADJ	ON	2017/02/21 02:35
S92	15493	(router with power)	US-PGPUB; USPAT	ADJ	ON	2017/02/21 02:36
S93	2	S91 and (router with power)	US-	ADJ	ON	2017/02/21

			PGPUB; USPAT			02:36
S94	1606	(router with power with (case or box or inside or enclosure or casing))	US-PGPUB; USPAT	ADJ	ON	2017/02/21 02:36
S95	578	(router NEAR9 power NEAR9 (case or box or inside or enclosure or casing))	US-PGPUB; USPAT	ADJ	ON	2017/02/21 02:37
S96	587	(router NEAR9 power NEAR9 (housed or enclos$5 or case or box or inside or enclosure or casing))	US-PGPUB; USPAT	ADJ	ON	2017/02/21 02:37
S97	17	(router NEAR9 power NEAR9 (housed or enclos$5 or case or box or inside or enclosure or casing) NEAR9 (AC or DC))	US-PGPUB; USPAT	ADJ	ON	2017/02/21 02:37
S98	17	S91 and (light with sensor)	US-PGPUB; USPAT	ADJ	ON	2017/02/21 03:05
S99	0	S88 and (light with (invisible or visible or infrared, ultraviolet, xrays or "x-rays" or (x adj2 rays) or gamma))	US-PGPUB	ADJ	ON	2017/02/21 03:19
S100	5	S91 and (light with (invisible or visible or infrared, ultraviolet, xrays or "x-rays" or (x adj2 rays) or gamma))	US-PGPUB	ADJ	ON	2017/02/21 03:19
S101	5	S91 and (light NEAR9 (invisible or visible or infrared, ultraviolet, xrays or "x-rays" or (x adj2 rays) or gamma))	US-PGPUB	ADJ	ON	2017/02/21 03:20
S102	128	((actuator with light) NEAR9 (invisible or visible or infrared, ultraviolet, xrays or "x-rays" or (x adj2 rays) or gamma))	US-PGPUB	ADJ	ON	2017/02/21 03:22
S103	79	((actuator NEAR5 light) NEAR9 (invisible or visible or infrared, ultraviolet, xrays or "x-rays" or (x adj2 rays) or gamma))	US-PGPUB	ADJ	ON	2017/02/21 03:23
S104	6	(sensor with (actuator NEAR5 light) NEAR9 (invisible or visible or infrared, ultraviolet, xrays or "x-rays" or (x adj2 rays) or gamma))	US-PGPUB	ADJ	ON	2017/02/21 03:23
S105	1	(sensor with (actuator NEAR2 light) NEAR9 (invisible or visible or infrared, ultraviolet, xrays or "x-rays" or (x adj2 rays) or gamma))	US-PGPUB	ADJ	ON	2017/02/21 03:25
S106	21	((actuator NEAR2 light) NEAR9 (invisible or visible or infrared, ultraviolet, xrays or "x-rays" or (x adj2 rays) or gamma))	US-PGPUB	ADJ	ON	2017/02/21 03:25
S107	1	S106 and invisible	US-PGPUB	ADJ	ON	2017/02/21 03:37
S108	1	S106 and (nonvisible or "non-visible" or invisible)	US-PGPUB	ADJ	ON	2017/02/21 03:38
S109	12	S106 and (LED or SSL or (discharge adj2 lamp) or (flourescent adj2 lamp) or PLED or (laser near5 diode))	US-PGPUB	ADJ	ON	2017/02/21 03:50
S110	10	S106 and (diode or SSL or (discharge adj2 lamp) or (flourescent adj2 lamp) or PLED or (laser near5 diode))	US-PGPUB	ADJ	ON	2017/02/21 03:50
S111	10	S106 and (diode or (discharge adj2 lamp) or (flourescent adj2 lamp) or PLED or (laser near5 diode))	US-PGPUB	ADJ	ON	2017/02/21 03:50
S112	4	((actuator NEAR2 light NEAR5 (discharge	US-	ADJ	ON	2017/02/21

		or emit)) NEAR9 (invisible or visible or infrared, ultraviolet, xrays or "x-rays" or (x adj2 rays) or gamma))	PGPUB			05:29
S113	58	(actuator NEAR2 light NEAR5 (discharge or emit))	US-PGPUB	ADJ	ON	2017/02/21 05:30
S114	4	(actuator NEAR2 light NEAR5 (discharge or emit) NEAR9 visible)	US-PGPUB	ADJ	ON	2017/02/21 05:30
S115	5	(actuator NEAR2 light NEAR5 (discharge or emit) with sensor)	US-PGPUB	ADJ	ON	2017/02/21 05:31
S116	1605	((Frequency adj3 Division adj3 Multiplexing) or FDM) with power with (communication or signal or transmission)	US-PGPUB	ADJ	ON	2017/02/21 05:48
S117	1	((Frequency adj3 Division adj3 Multiplexing) or FDM) with power with (communication or signal or transmission) with band with splitter	US-PGPUB	ADJ	ON	2017/02/21 05:48
S118	34	(US-20130201316-$ or US-20100030421-$ or US-20120303216-$ or US-20140188343-$ or US-20140236384-$ or US-20070076593-$ or US-20100211258-$ or US-20080100428-$ or US-20060111825-$ or US-20100148940-$ or US-20100201516-$ or US-20110035491-$ or US-20150046582-$ or US-20160062330-$ or US-20060217840-$ or US-20090198380-$ or US-20150295788-$ or US-20160344745-$ or US-20120253480-$ or US-20070283005-$ or US-20100071053-$ or US-20130091254-$ or US-20140286348-$ or US-20130091279-$ or US-20030105389-$ or US-20130139440-$).did. or (US-8140658-$ or US-7844687-$ or US-7797367-$ or US-7020701-$ or US-6859831-$ or US-6832251-$ or US-6826607-$ or US-6735630-$).did.	US-PGPUB; USPAT	ADJ	ON	2017/02/21 05:54
S119	13	S118 and splitter	US-PGPUB; USPAT	ADJ	ON	2017/02/21 05:54
S120	13	S118 and splitter and frequency	US-PGPUB; USPAT	ADJ	ON	2017/02/21 05:54
S121	1	S118 and (splitter same frequency)	US-PGPUB; USPAT	ADJ	ON	2017/02/21 05:55
S122	234	(power with data with splitter with frequency)	US-PGPUB; USPAT	ADJ	ON	2017/02/21 05:56
S123	1	(US-20130201316-$).did.	US-PGPUB	ADJ	ON	2017/02/21 10:03
S124	462	(high adj2 pass adj2 filter) and (low adj2 pass adj2 filter) and (FDMA or (frequency near5 division near5 multiple near5 access))	US-PGPUB	ADJ	ON	2017/02/21 10:07
S125	261	(high adj2 pass adj2 filter) and (low adj2 pass adj2 filter) and (FDMA or (frequency near5 division near5 multiple near5 access)) and (power near5 (band or	US-PGPUB	ADJ	ON	2017/02/21 10:08

		frequency))				
S126	302	(high adj2 pass adj2 filter) and (low adj2 pass adj2 filter) and (FDMA or (frequency near5 division near5 multiple near5 access)) and (power near5 (band or frequency or channel))	US-PGPUB	ADJ	ON	2017/02/21 10:08
S127	273	(high adj2 pass adj2 filter) and (low adj2 pass adj2 filter) and (FDMA or (frequency near5 division near5 multiple near5 access)) and (power near5 (band or frequency or channel)) and ((data or communication) near5 (channel or band or frequency))	US-PGPUB	ADJ	ON	2017/02/21 10:09
S128	112	(high adj2 pass adj2 filter) and (low adj2 pass adj2 filter) and (FDMA or (frequency near5 division near5 multiple near5 access)) and (power near5 (band or frequency or channel)) and ((data or communication) near5 (channel or band or frequency)) and transformer and capacitor	US-PGPUB	ADJ	ON	2017/02/21 10:10
S129	88	(high adj2 pass adj2 filter) and (low adj2 pass adj2 filter) and (FDMA or (frequency near5 division near5 multiple near5 access)) and (power near5 (band or frequency or channel)) and ((data or communication) near5 (channel or band or frequency)) and transformer and capacitor and sensor	US-PGPUB	ADJ	ON	2017/02/21 10:10
S130	41	(high adj2 pass adj2 filter) and (low adj2 pass adj2 filter) and (FDMA or (frequency near5 division near5 multiple near5 access)) and (power near5 (band or frequency or channel)) and ((data or communication) near5 (channel or band or frequency)) and transformer and capacitor and sensor and (split or splits or splitter)	US-PGPUB	ADJ	ON	2017/02/21 10:13
S131	31	(high adj2 pass adj2 filter) and (low adj2 pass adj2 filter) and (FDMA or (frequency near5 division near5 multiple near5 access)) and (power near5 (band or frequency or channel)) and ((data or communication) near5 (channel or band or frequency)) and (transformer with capacitor with (windings or wirings or coils))	US-PGPUB	ADJ	ON	2017/02/21 10:15
S132	3	(high adj2 pass adj2 filter) and (low adj2 pass adj2 filter) and (FDMA or (frequency near5 division near5 multiple near5 access)) and (power near5 (band or frequency or channel)) and ((data or communication) near5 (channel or band or frequency)) and (transformer with capacitor with (windings or wirings or coils)) and sensor and (split or splits or splitter)	US-PGPUB	ADJ	ON	2017/02/21 10:19
S133	239	(high adj2 pass adj2 filter) and (low adj2 pass adj2 filter) and (FDMA or (frequency near5 division near5 multiple near5 access)) and (power near3 (band or	US-PGPUB	ADJ	ON	2017/02/21 10:34

		frequency or channel)) and ((data or communication) near5 (channel or band or frequency))				
S134	262	(high adj2 pass adj2 filter) and (low adj2 pass adj2 filter) and (FDMA or (frequency near5 division near5 multiple near5 access)) and (power near5 (modula$4 near5 band or frequency or channel)) and ((data or communication) near5 (channel or band or frequency))	US-PGPUB	ADJ	ON	2017/02/21 10:35
S135	45	(high adj2 pass adj2 filter) and (low adj2 pass adj2 filter) and (FDMA or (frequency near5 division near5 multiple near5 access)) and (power near5 modula$4 near5 (band or frequency or channel)) and ((data or communication) near5 (channel or band or frequency))	US-PGPUB	ADJ	ON	2017/02/21 10:35
S136	1	(high adj2 pass adj2 filter) and (low adj2 pass adj2 filter) and (FDMA or (frequency near5 division near5 multiple near5 access)) and (power near5 modula$4 near5 (band or frequenc$4 or channel) near5 (different or distinct or seperate or unique or other or another)) and ((data or communication) near5 (channel or band or frequency))	US-PGPUB	ADJ	ON	2017/02/21 10:51
S137	57	(high adj2 pass adj2 filter) and (low adj2 pass adj2 filter) and (FDMA or (frequency near5 division near5 multiple near5 access)) and (power near5 (band or frequenc$4 or channel) near5 (different or distinct or seperate)) and ((data or communication) near5 (channel or band or frequency))	US-PGPUB	ADJ	ON	2017/02/21 11:00
S138	0	(high adj2 pass adj2 filter) and (low adj2 pass adj2 filter) and (FDMA or (frequency near5 division near5 multiple near5 access)) and (power near5 (band or frequenc$4 or channel) near5 (different or distinct or seperate)) and ((data or communication) near5 (channel or band or frequency)) and (split or splitter or divide) and (transformer with capacitor with (windings or coils))	US-PGPUB	ADJ	ON	2017/02/21 11:01
S139	17	(high adj2 pass adj2 filter) and (low adj2 pass adj2 filter) and (FDMA or (frequency near5 division near5 multiple near5 access)) and (power near5 (band or frequenc$4 or channel) near5 (different or distinct or seperate)) and ((data or communication) near5 (channel or band or frequency)) and (split or splitter or divide) and (transformer with capacitor)	US-PGPUB	ADJ	ON	2017/02/21 11:01
S140	1	(US-20130308581-$).did.	US-PGPUB	ADJ	ON	2017/02/21 11:09
S141	1	(US-20110118888-$).did.	US-PGPUB	ADJ	ON	2017/02/21 11:28
S142	2	(US-20160062330-$ or US-20070283005-$).did.	US-PGPUB	ADJ	ON	2017/02/21 11:49
S143	0	S142 and appliance	US-	ADJ	ON	2017/02/21

			PGPUB; USPAT			11:49
S144	1	(US-20130201316-$).did.	US-PGPUB	ADJ	ON	2017/02/21 12:06
S145	205	(yehuda and binder).in.	US-PGPUB	ADJ	ON	2017/02/21 12:24
S146	26	(benjamin and maytal).in.	US-PGPUB	ADJ	ON	2017/02/21 12:25
S147	26	(may and patents).as.	US-PGPUB	ADJ	ON	2017/02/21 12:25
S148	25	(may and patents).aanm.	US-PGPUB	ADJ	ON	2017/02/21 12:25
S149	8	S147 and S148	US-PGPUB	ADJ	ON	2017/02/21 12:25
S150	1	S145 and S146	US-PGPUB	ADJ	ON	2017/02/21 12:25
S151	43	S147 or S148	US-PGPUB	ADJ	ON	2017/02/21 12:26
S152	230	S145 or S146	US-PGPUB	ADJ	ON	2017/02/21 12:26
S153	230	S151 or S152	US-PGPUB	ADJ	ON	2017/02/21 12:26
S154	17	S153 and piezoelectric.clm.	US-PGPUB	ADJ	ON	2017/02/21 12:26
S155	1	S153 and (vehicle and router and actuator).clm.	US-PGPUB	ADJ	ON	2017/02/21 12:27
S156	7130	H04L67/12.cpc.	US-PGPUB	ADJ	ON	2017/02/21 12:27
S157	993	348/77.ccls.	US-PGPUB	ADJ	ON	2017/02/21 12:27
S158	374	700/28.ccls.	US-PGPUB	ADJ	ON	2017/02/21 12:27
S159	148	700/22.ccls.	US-PGPUB	ADJ	ON	2017/02/21 12:28
S160	1455	709/218.ccls.	US-PGPUB	ADJ	ON	2017/02/21 12:28
S161	2	"20130080642"	US-PGPUB; USPAT	ADJ	ON	2017/06/30 12:25
S162	1	"14499166"	US-PGPUB; USPAT	ADJ	ON	2017/06/30 12:27
S163	13	(US-20160062330-$ or US-20090198380-$ or US-20150295788-$ or US-20160344745-$ or US-20150046582-$ or US-20100030421-$ or US-20070283005-$ or US-20130308581-$ or US-20110118888-$ or US-20130139440-$ or US-20100071053-$ or US-20030105389-$ or US-20130091279-$).did.	US-PGPUB	ADJ	ON	2017/07/05 10:43
S164	2	S163 and (sensor and actuator and router)	US-PGPUB; USPAT	ADJ	ON	2017/07/05 10:43
S165	36	(US-20130201316-$ or US-20100030421-$ or US-20120303216-$ or US-20140188343-$ or US-20140236384-$ or	US-PGPUB; USPAT	ADJ	ON	2017/07/05 10:44

		US-20070076593-$ or US-20100211258-$ or US-20080100428-$ or US-20060111825-$ or US-20100148940-$ or US-20100201516-$ or US-20110035491-$ or US-20150046582-$ or US-20160062330-$ or US-20060217840-$ or US-20090198380-$ or US-20150295788-$ or US-20160344745-$ or US-20120253480-$ or US-20070283005-$ or US-20100071053-$ or US-20130091254-$ or US-20140286348-$ or US-20130091279-$ or US-20030105389-$ or US-20130139440-$).did. or (US-20130308581-$ or US-20110118888-$).did. or (US-8140658-$ or US-7844687-$ or US-7797367-$ or US-7020701-$ or US-6859831-$ or US-6832251-$ or US-6826607-$ or US-6735630-$).did.				
S166	3	S165 and (sensor and actuator and router)	US-PGPUB; USPAT	ADJ	ON	2017/07/05 10:44
S168	7	S165 and (sensor same network same router)	US-PGPUB; USPAT	ADJ	ON	2017/07/05 10:45
S169	36	(US-20130201316-$ or US-20100030421-$ or US-20120303216-$ or US-20140188343-$ or US-20140236384-$ or US-20070076593-$ or US-20100211258-$ or US-20080100428-$ or US-20060111825-$ or US-20100148940-$ or US-20100201516-$ or US-20110035491-$ or US-20150046582-$ or US-20160062330-$ or US-20060217840-$ or US-20090198380-$ or US-20150295788-$ or US-20160344745-$ or US-20120253480-$ or US-20070283005-$ or US-20100071053-$ or US-20130091254-$ or US-20140286348-$ or US-20130091279-$ or US-20030105389-$ or US-20130139440-$).did. or (US-20130308581-$ or US-20110118888-$).did. or (US-8140658-$ or US-7844687-$ or US-7797367-$ or US-7020701-$ or US-6859831-$ or US-6832251-$ or US-6826607-$ or US-6735630-$).did.	US-PGPUB; USPAT	ADJ	ON	2017/07/05 11:20
S170	7	S169 and (sensor same network same router)	US-PGPUB; USPAT	ADJ	ON	2017/07/05 11:20
S171	3	S170 and actuator	US-PGPUB; USPAT	ADJ	ON	2017/07/05 11:20
S172	24	S169 and actuator	US-PGPUB; USPAT	ADJ	ON	2017/07/05 11:21
S173	2	(US-20160062330-$ or US-20070283005-$).did.	US-PGPUB	OR	OFF	2017/07/19 19:14
S174	1	(US-20130201316-$).did.	US-PGPUB	OR	OFF	2017/07/20 00:24
S175	1	"20120079149"	US-PGPUB	OR	OFF	2017/07/20 00:29

S176	1	"20120079149"	US-PGPUB	OR	OFF	2017/07/20 06:37
S177	1	S176 and ((sensor or actuator) with router)	US-PGPUB	OR	OFF	2017/07/20 06:37
S178	1	S176 and (router)	US-PGPUB	OR	OFF	2017/07/20 06:37
S179	0	S176 and (commands with router)	US-PGPUB	OR	OFF	2017/07/20 06:41
S180	37	(US-20130201316-$ or US-20100030421-$ or US-20120303216-$ or US-20140188343-$ or US-20140236384-$ or US-20070076593-$ or US-20100211258-$ or US-20080100428-$ or US-20060111825-$ or US-20100148940-$ or US-20100201516-$ or US-20110035491-$ or US-20150046582-$ or US-20160062330-$ or US-20060217840-$ or US-20090198380-$ or US-20150295788-$ or US-20160344745-$ or US-20120253480-$ or US-20070283005-$ or US-20100071053-$ or US-20130091254-$ or US-20140286348-$ or US-20130091279-$ or US-20030105389-$ or US-20130139440-$).did. or (US-20130308581-$ or US-20110118888-$ or US-20120079149-$).did. or (US-8140658-$ or US-7844687-$ or US-7797367-$ or US-7020701-$ or US-6859831-$ or US-6832251-$ or US-6826607-$ or US-6735630-$).did.	US-PGPUB; USPAT	OR	OFF	2017/07/20 06:41
S181	1	S180 and (commands with router)	US-PGPUB	OR	OFF	2017/07/20 06:41
S182	2	(actuator with commands with router)	US-PGPUB	OR	OFF	2017/07/20 06:42
S183	25	(sensor with commands with router)	US-PGPUB	OR	OFF	2017/07/20 06:42
S184	9	(sensor NEAR9 commands NEAR9 router)	US-PGPUB	OR	OFF	2017/07/20 06:42
S185	3	S184 and actuator	US-PGPUB	OR	OFF	2017/07/20 06:54
S186	3	(US-20160062330-$ or US-20100071053-$ or US-20070283005-$).did.	US-PGPUB	OR	OFF	2017/07/20 09:43
S192	3	(US-20160062330-$ or US-20100071053-$ or US-20070283005-$).did.	US-PGPUB	OR	OFF	2017/07/20 09:45
S193	3	S192 and address	US-PGPUB	OR	OFF	2017/07/20 09:45
S194	0	S192 and ((unique or individual or distinct or separate) with address)	US-PGPUB	OR	OFF	2017/07/20 09:46
S195	14	(US-20160062330-$ or US-20090198380-$ or US-20150295788-$ or US-20160344745-$ or US-20150046582-$ or US-20100030421-$ or US-20070283005-$ or US-20130308581-$ or US-20110118888-$ or US-20130139440-$ or US-20100071053-$ or US-20030105389-$ or US-20130091279-$ or US-20120079149-$).did.	US-PGPUB	OR	OFF	2017/07/20 12:16
S200	14	(US-20160062330-$ or US-20090198380-	US-	OR	OFF	2017/07/20

		$ or US-20150295788-$ or US-20160344745-$ or US-20150046582-$ or US-20100030421-$ or US-20070283005-$ or US-20130308581-$ or US-20110118888-$ or US-20130139440-$ or US-20100071053-$ or US-20030105389-$ or US-20130091279-$ or US-20120079149-$).did.	PGPUB			12:17
S201	12	S200 and power	US-PGPUB	OR	OFF	2017/07/20 12:17
S202	2	S200 and (power with (socket or port or connector))	US-PGPUB	OR	OFF	2017/07/20 12:17
S203	3	S200 and (power with (AC or DC))	US-PGPUB	OR	OFF	2017/07/20 12:18
S204	1	(US-20130201316-$).did.	US-PGPUB	OR	OFF	2017/07/20 12:23
S205	0	S204 and medical	USPAT	OR	OFF	2017/07/20 12:23
S206	0	S204 and medicine	USPAT	OR	OFF	2017/07/20 12:23
S207	0	S204 and power	USPAT	OR	OFF	2017/07/20 12:23
S208	0	S204 and actuator	USPAT	OR	OFF	2017/07/20 12:23
S209	14	S200 and sensor	US-PGPUB	OR	OFF	2017/07/20 12:23
S210	12	S200 and power	US-PGPUB	OR	OFF	2017/07/20 12:23
S212	1	S204 and medical	US-PGPUB	OR	OFF	2017/07/20 12:23
S213	5	S201 and (AC or DC)	US-PGPUB	OR	OFF	2017/07/20 12:27
S214	1	(US-20130201316-$).did.	US-PGPUB	OR	OFF	2017/07/20 14:03
S215	14	(US-20160062330-$ or US-20090198380-$ or US-20150295788-$ or US-20160344745-$ or US-20150046582-$ or US-20100030421-$ or US-20070283005-$ or US-20130308581-$ or US-20110118888-$ or US-20130139440-$ or US-20100071053-$ or US-20030105389-$ or US-20130091279-$ or US-20120079149-$).did.	US-PGPUB	OR	OFF	2017/07/20 15:03
S220	14	(US-20160062330-$ or US-20090198380-$ or US-20150295788-$ or US-20160344745-$ or US-20150046582-$ or US-20100030421-$ or US-20070283005-$ or US-20130308581-$ or US-20110118888-$ or US-20130139440-$ or US-20100071053-$ or US-20030105389-$ or US-20130091279-$ or US-20120079149-$).did.	US-PGPUB	OR	OFF	2017/07/20 15:05
S225	5	S220 and battery	US-PGPUB	OR	OFF	2017/07/20 15:06
S226	12	S220 and network	US-PGPUB	OR	OFF	2017/07/20 15:06
S227	3	S220 and (data with paths)	US-	OR	OFF	2017/07/20

			PGPUB			15:06
S228	2	S220 and (router with port)	US-PGPUB	OR	OFF	2017/07/20 15:16
S229	8	S220 and (embed or embedded or inside)	US-PGPUB	OR	OFF	2017/07/20 15:40
S230	2	S220 and ((embed or embedded or inside) with router)	US-PGPUB	OR	OFF	2017/07/20 15:49
S231	5	S220 and ((embed or embedded or inside) with sensor)	US-PGPUB	OR	OFF	2017/07/20 15:50
S232	5	S220 and ((embed or embedded or inside or contained) with sensor)	US-PGPUB	OR	OFF	2017/07/20 15:51
S233	2	S220 and ((embed or embedded or inside or contained) with router)	US-PGPUB	OR	OFF	2017/07/20 15:51
S234	5	S220 and ((router or sensor) with integrat$4)	US-PGPUB	OR	OFF	2017/07/20 15:51
S235	12	S220 and (embedded or embed or integrat$4)	US-PGPUB	OR	OFF	2017/07/20 15:56
S236	13	(US-20160062330-$ or US-20090198380-$ or US-20150295788-$ or US-20160344745-$ or US-20150046582-$ or US-20100030421-$ or US-20070283005-$ or US-20130308581-$ or US-20110118888-$ or US-20130139440-$ or US-20100071053-$ or US-20030105389-$ or US-20130091279-$).did.	US-PGPUB	OR	OFF	2017/07/20 19:05
S242	13	S236 and device	US-PGPUB	OR	OFF	2017/07/20 19:06
S243	0	S236 and (routing with phone)	US-PGPUB	OR	OFF	2017/07/20 19:08
S244	2	S236 and (router with phone)	US-PGPUB	OR	OFF	2017/07/20 19:08
S245	1	(US-20130201316-$).did.	US-PGPUB	OR	OFF	2017/07/20 19:22
S246	1	S245 and actuator	US-PGPUB	OR	OFF	2017/07/20 19:22
S247	1063	ISM near2 radio near2 band	US-PGPUB	OR	OFF	2017/07/20 19:44
S248	496	industrial near3 scientific near3 radio near3 band	US-PGPUB	OR	OFF	2017/07/20 19:44
S249	1	(industrial near3 scientific near3 radio near3 band) near5 WAN	US-PGPUB	OR	OFF	2017/07/20 19:45
S250	3	(industrial near3 scientific near3 radio near3 band) with WAN	US-PGPUB	OR	OFF	2017/07/20 19:46
S251	0	(industrial near3 scientific near3 radio near3 band) near5 internet	US-PGPUB	OR	OFF	2017/07/20 19:46
S252	14	(industrial near3 scientific near3 radio near3 band) near5 network	US-PGPUB	OR	OFF	2017/07/20 19:46
S253	1	S236 and (WAN with antenna)	US-PGPUB	OR	OFF	2017/07/20 19:56
S254	1	S236 and (WAN with modem)	US-PGPUB	OR	OFF	2017/07/20 19:59
S255	1	(US-20130201316-$).did.	US-PGPUB	OR	OFF	2017/07/20 20:19
S256	157	(BINDER and Yehuda).in.	USPAT	OR	OFF	2017/07/20 20:26

S257	10	(MAYTAL and Benjamin).in.	USPAT	OR	OFF	2017/07/20 20:26
S258	4181	H04L67/12.cpc.	USPAT	OR	OFF	2017/07/20 20:27
S259	41	(B60Y2200/30 G06Q2240/00).cpc.	USPAT	OR	OFF	2017/07/20 20:29
S260	41	(B60Y2200/30 or G06Q2240/00).cpc.	USPAT	OR	OFF	2017/07/20 20:29
S261	15	(B60Y2200/30).cpc.	USPAT	OR	OFF	2017/07/20 20:29
S262	26	(G06Q2240/00).cpc.	USPAT	OR	OFF	2017/07/20 20:29
S263	5119	(G01C21/00 or B60Y2200/90 or B60Y2200/50 or B60Y2200/40 or G08G1/00 or B60Y2200/13 or B60Y2200/126 or B60Y2200/12 or B60Y2200/11 or B60K31/18 or B60K31/00 or G07C5/008).cpc.	USPAT	OR	OFF	2017/07/20 20:31
S264	10730	(348/77 or 348/143 or 370/276 or 700/22 or 700/28 or 701/2 or 701/31.4 or 709/218).ccls.	USPAT	OR	OFF	2017/07/20 20:33
S265	11	(may and patents).as.	USPAT	OR	OFF	2017/07/20 20:33
S266	6	(may and patents).aanm.	USPAT	OR	OFF	2017/07/20 20:34
S267	0	"15657163"	US-PGPUB; USPAT	ADJ	ON	2017/09/18 11:52
S268	11	(US-20160062330-$ or US-20090198380-$ or US-20160344745-$ or US-20150046582-$ or US-20070283005-$ or US-20130308581-$ or US-20100071053-$ or US-20030105389-$ or US-20130091279-$ or US-20090224906-$ or US-20120079149-$).did.	US-PGPUB	OR	ON	2017/09/18 12:22
S269	7	S268 and voice	US-PGPUB; USPAT	OR	ON	2017/09/18 12:22
S270	8	S268 and (audio or human)	US-PGPUB; USPAT	OR	ON	2017/09/18 12:23
S271	42	(US-20130201316-$ or US-20100030421-$ or US-20120303216-$ or US-20140188343-$ or US-20140236384-$ or US-20070076593-$ or US-20100211258-$ or US-20080100428-$ or US-20060111825-$ or US-20100148940-$ or US-20100201516-$ or US-20110035491-$ or US-20150046582-$ or US-20160062330-$ or US-20060217840-$ or US-20090198380-$ or US-20150295788-$ or US-20160344745-$ or US-20120253480-$ or US-20070283005-$ or US-20100071053-$ or US-20130091254-$ or US-20140286348-$ or US-20130091279-$ or US-20030105389-$ or US-20130139440-$).did. or (US-20130308581-$ or US-20110118888-$ or US-20120079149-$ or US-20080031139-$	US-PGPUB; USPAT	OR	ON	2017/09/18 12:24

		or US-20080068156-$ or US-20080307075-$ or US-20170111158-$ or US-20090224906-$).did. or (US-8140658-$ or US-7844687-$ or US-7797367-$ or US-7020701-$ or US-6859831-$ or US-6832251-$ or US-6826607-$ or US-6735630-$).did.				
S272	25	S271 and voice	US-PGPUB; USPAT	OR	ON	2017/09/18 12:25
S273	2	S271 and ((mic or microphone) with voice)	US-PGPUB; USPAT	OR	ON	2017/09/18 12:27
S274	31	S271 and (person or human)	US-PGPUB; USPAT	OR	ON	2017/09/18 12:38
S275	17	(control$4 or operat$4) with (actuator with (human) with voice)	US-PGPUB; USPAT	OR	ON	2017/09/18 12:43
S276	7612	(control$4 or operat$4) with (actuator with voice)	US-PGPUB; USPAT	OR	ON	2017/09/18 12:55
S277	5	(control$4 or operat$4) NEAR9 (actuator with voice) NEAR9 network	US-PGPUB; USPAT	OR	ON	2017/09/18 12:55
S278	10	2009/0089065	US-PGPUB; USPAT	OR	ON	2017/09/19 13:03
S279	2	"20090089065"	US-PGPUB; USPAT	OR	ON	2017/09/19 13:03
S280	13	(US-20160062330-$ or US-20090198380-$ or US-20160344745-$ or US-20150046582-$ or US-20070283005-$ or US-20130308581-$ or US-20100071053-$ or US-20030105389-$ or US-20130091279-$ or US-20090224906-$ or US-20120079149-$ or US-20080307075-$ or US-20090089065-$).did.	US-PGPUB	OR	ON	2017/09/19 13:12
S281	6	S280 and building	US-PGPUB; USPAT	OR	ON	2017/09/19 13:12
S282	0	"15657163"	US-PGPUB; USPAT	OR	ON	2017/09/19 13:13
S286	2	"13733634"	US-PGPUB; USPAT	ADJ	ON	2017/09/19 13:13
S287	0	S286 and (client adj2 device)	US-PGPUB; USPAT	ADJ	ON	2017/09/19 13:13
S288	5	S280 and ((speech or voice) with (command$4 or control$4))	US-PGPUB; USPAT	OR	ON	2017/09/19 13:17
S289	13	(US-20160062330-$ or US-20090198380-$ or US-20160344745-$ or US-20150046582-$ or US-20070283005-$ or US-20130308581-$ or US-20100071053-$	US-PGPUB	OR	ON	2017/09/27 04:43

		or US-20030105389-$ or US-20130091279-$ or US-20090224906-$ or US-20120079149-$ or US-20080307075-$ or US-20090089065-$).did.				
S290	7	S289 and (mic or microphone)	US-PGPUB; USPAT	OR	ON	2017/09/27 04:43
S291	13	(US-20160062330-$ or US-20090198380-$ or US-20160344745-$ or US-20150046582-$ or US-20070283005-$ or US-20130308581-$ or US-20100071053-$ or US-20030105389-$ or US-20130091279-$ or US-20090224906-$ or US-20120079149-$ or US-20080307075-$ or US-20090089065-$).did.	US-PGPUB	OR	ON	2017/09/28 01:25
S292	7	S291 and (mic or microphone or micro$1phone)	US-PGPUB; USPAT	OR	ON	2017/09/28 01:25
S293	43	(US-20130201316-$ or US-20100030421-$ or US-20120303216-$ or US-20140188343-$ or US-20140236384-$ or US-20070076593-$ or US-20100211258-$ or US-20080100428-$ or US-20060111825-$ or US-20100148940-$ or US-20100201516-$ or US-20110035491-$ or US-20150046582-$ or US-20160062330-$ or US-20060217840-$ or US-20090198380-$ or US-20150295788-$ or US-20160344745-$ or US-20120253480-$ or US-20070283005-$ or US-20100071053-$ or US-20130091254-$ or US-20140286348-$ or US-20130091279-$ or US-20030105389-$ or US-20130139440-$).did. or (US-20130308581-$ or US-20110118888-$ or US-20120079149-$ or US-20080031139-$ or US-20080068156-$ or US-20080307075-$ or US-20170111158-$ or US-20090224906-$ or US-20090089065-$).did. or (US-8140658-$ or US-7844687-$ or US-7797367-$ or US-7020701-$ or US-6859831-$ or US-6832251-$ or US-6826607-$ or US-6735630-$).did.	US-PGPUB; USPAT	OR	ON	2017/09/28 08:46
S294	3281126	S293 and ("same" NEAR4 device) or inside	US-PGPUB; USPAT	OR	ON	2017/09/28 08:46
S295	3281126	S293 and ("same" NEAR4 device) or inside	US-PGPUB; USPAT	OR	ON	2017/09/28 08:46
S296	28	S293 and (("same" NEAR4 device) or inside)	US-PGPUB; USPAT	OR	ON	2017/09/28 08:47
S297	13	(US-20160062330-$ or US-20090198380-$ or US-20160344745-$ or US-20150046582-$ or US-20070283005-$ or US-20130308581-$ or US-20100071053-$ or US-20030105389-$ or US-20130091279-$ or US-20090224906-$ or US-20120079149-$ or US-20080307075-$ or US-20090089065-$).did.	US-PGPUB	OR	ON	2017/09/28 08:51
S298	5	S297 and actuator	US-	OR	ON	2017/09/28

			PGPUB; USPAT			08:51
S299	7	S297 and algorithm	US-PGPUB; USPAT	OR	ON	2017/09/28 09:06
S300	13	S297 and sensor	US-PGPUB; USPAT	OR	ON	2017/09/28 09:28
S301	3	S297 and (sensor with light)	US-PGPUB; USPAT	OR	ON	2017/09/28 09:39
S302	3	(US-20070283005-$ or US-20090089065-$ or US-20150046582-$).did.	US-PGPUB	OR	ON	2017/09/29 04:46
S303	1	S302 and (actuator with physical)	US-PGPUB; USPAT	OR	ON	2017/09/29 04:47
S304	2	S302 and (actuator)	US-PGPUB; USPAT	OR	ON	2017/09/29 04:47
S305	13	(US-20160062330-$ or US-20090198380-$ or US-20160344745-$ or US-20150046582-$ or US-20070283005-$ or US-20130308581-$ or US-20100071053-$ or US-20030105389-$ or US-20130091279-$ or US-20090224906-$ or US-20120079149-$ or US-20080307075-$ or US-20090089065-$).did.	US-PGPUB	OR	ON	2017/09/29 04:53
S306	7	S305 and (mic or microphones)	US-PGPUB; USPAT	OR	ON	2017/09/29 04:53
S307	10	S305 and (address)	US-PGPUB; USPAT	OR	ON	2017/09/29 05:22
S308	6	S305 and (zigbee)	US-PGPUB; USPAT	OR	ON	2017/09/29 05:30
S309	5	S305 and ("802.11")	US-PGPUB; USPAT	OR	ON	2017/09/29 05:33
S310	4	S305 and (ISM)	US-PGPUB; USPAT	OR	ON	2017/09/29 05:45
S311	2	S305 and (CDMA)	US-PGPUB; USPAT	OR	ON	2017/09/29 05:48
S312	3	S305 and (UMTS or GSM)	US-PGPUB; USPAT	OR	ON	2017/09/29 05:49
S313	8	S305 and cellular	US-PGPUB; USPAT	OR	ON	2017/09/29 05:49
S314	6	S305 and (HSPA or LTE or MBWA or "802.2" or GSM or WiMax)	US-PGPUB; USPAT	OR	ON	2017/09/29 05:54
S315	1	S305 and (applicance or freezer or refrigerator or food or beverage or coffee or tea or cooker or oven)	US-PGPUB; USPAT	OR	ON	2017/09/29 06:23

S316	43	(US-20130201316-$ or US-20100030421-$ or US-20120303216-$ or US-20140188343-$ or US-20140236384-$ or US-20070076593-$ or US-20100211258-$ or US-20080100428-$ or US-20060111825-$ or US-20100148940-$ or US-20100201516-$ or US-20110035491-$ or US-20150046582-$ or US-20160062330-$ or US-20060217840-$ or US-20090198380-$ or US-20150295788-$ or US-20160344745-$ or US-20120253480-$ or US-20070283005-$ or US-20100071053-$ or US-20130091254-$ or US-20140286348-$ or US-20130091279-$ or US-20030105389-$ or US-20130139440-$).did. or (US-20130308581-$ or US-20110118888-$ or US-20120079149-$ or US-20080031139-$ or US-20080068156-$ or US-20080307075-$ or US-20170111158-$ or US-20090224906-$ or US-20090089065-$).did. or (US-8140658-$ or US-7844687-$ or US-7797367-$ or US-7020701-$ or US-6859831-$ or US-6832251-$ or US-6826607-$ or US-6735630-$).did.	US-PGPUB; USPAT	OR	ON	2017/09/29 06:26
S317	14	S316 and (applicance or freezer or refrigerator or food or beverage or coffee or tea or cooker or oven)	US-PGPUB; USPAT	OR	ON	2017/09/29 06:26
S318	1015	network with sensor with (applicance or freezer or refrigerator or food or beverage or coffee or tea or cooker or oven)	US-PGPUB; USPAT	OR	ON	2017/09/29 06:28
S319	22	S316 and (appliance or freezer or refrigerator or food or beverage or coffee or tea or cooker or oven)	US-PGPUB; USPAT	OR	ON	2017/09/29 06:28
S320	21	S316 and (appliance or kitchen)	US-PGPUB; USPAT	OR	ON	2017/09/29 06:29
S321	3	S316 and (kitchen)	US-PGPUB; USPAT	OR	ON	2017/09/29 06:29
S322	12	(control$4) with network with kitchen with appliance with (speech or voice)	US-PGPUB; USPAT	OR	ON	2017/09/29 06:33
S323	1	(US-20170272316-$).did.	US-PGPUB	OR	ON	2017/09/29 06:36
S324	12	(US-20160062330-$ or US-20090198380-$ or US-20150046582-$ or US-20070283005-$ or US-20130308581-$ or US-20100071053-$ or US-20030105389-$ or US-20130091279-$ or US-20090224906-$ or US-20080307075-$ or US-20090089065-$ or US-20170272316-$).did.	US-PGPUB	OR	ON	2017/09/29 08:34
S325	3	S324 and (infrared or infra$1red or gamma or xrays or x$1rays)	US-PGPUB; USPAT	OR	ON	2017/09/29 08:34
S326	0	S324 and (actuat$4 with motion)	US-PGPUB; USPAT	OR	ON	2017/09/29 08:40
S327	4	S324 and (actuat$4)	US-	OR	ON	2017/09/29

			PGPUB; USPAT			08:41
S328	2	S324 and (actuat$4 with (sound or noise or volume or radio or music))	US-PGPUB; USPAT	OR	ON	2017/09/29 08:49
S329	2	S324 and (actuat$4 with (sound or noise or volume or audio or radio or music))	US-PGPUB; USPAT	OR	ON	2017/09/29 08:49
S330	4	S324 and (actuat$4 same (sound or noise or volume or audio or radio or music))	US-PGPUB; USPAT	OR	ON	2017/09/29 08:49
S331	0	"15657163"	US-PGPUB; USPAT	OR	ON	2017/09/29 09:02
S332	5777	709/218.ccls.	US-PGPUB; USPAT	OR	ON	2017/09/29 09:03
S333	12682	H04L67/12.cpc.	US-PGPUB; USPAT	OR	ON	2017/09/29 09:03
S334	25214	B60K 31/00.cpc.	US-PGPUB; USPAT	OR	ON	2017/09/29 09:04
S335	25214	B60K 31/18.cpc.	US-PGPUB; USPAT	OR	ON	2017/09/29 09:04
S336	288	B60Y2200/11.cpc.	US-PGPUB; USPAT	OR	ON	2017/09/29 09:04
S337	862	B60Y2200/12.cpc.	US-PGPUB; USPAT	OR	ON	2017/09/29 09:04
S338	194	B60Y2200/126.cpc.	US-PGPUB; USPAT	OR	ON	2017/09/29 09:04
S339	313	B60Y2200/13.cpc.	US-PGPUB; USPAT	OR	ON	2017/09/29 09:05
S340	35	B60Y2200/30.cpc.	US-PGPUB; USPAT	OR	ON	2017/09/29 09:05
S341	110	B60Y2200/40.cpc.	US-PGPUB; USPAT	OR	ON	2017/09/29 09:05
S342	13	B60Y2200/50.cpc.	US-PGPUB; USPAT	OR	ON	2017/09/29 09:05
S343	91	B60Y2200/90.cpc.	US-PGPUB; USPAT	OR	ON	2017/09/29 09:05
S344	36907	G01C 21/00.cpc.	US-PGPUB; USPAT	OR	ON	2017/09/29 09:05
S345	155	G06Q2240/00.cpc.	US-PGPUB; USPAT	OR	ON	2017/09/29 09:05
S346	9132	G07C 5/008.cpc.	US-	OR	ON	2017/09/29

			PGPUB; USPAT			09:05
S348	15985	G08G 1/00.cpc.	US-PGPUB; USPAT	OR	ON	2017/09/29 09:05
S349	40	(may and patents).as.	US-PGPUB; USPAT	OR	ON	2017/09/29 09:07
S350	42	(may and patents).aanm.	US-PGPUB; USPAT	OR	ON	2017/09/29 09:07
S351	381	(binder and yehuda).in.	US-PGPUB; USPAT	OR	ON	2017/09/29 09:07
S352	39	(maytal and benjamin).in.	US-PGPUB; USPAT	OR	ON	2017/09/29 09:07
S353	13516	H04L67/12.cpc.	US-PGPUB; USPAT	OR	ON	2018/01/19 19:43
S354	5776	709/218.ccls..	US-PGPUB; USPAT	OR	ON	2018/01/19 19:43
S355	41	(maytal and benjamin).in.	US-PGPUB; USPAT	OR	ON	2018/01/19 19:43
S356	387	(binder and yehuda).in.	US-PGPUB; USPAT	OR	ON	2018/01/19 19:43
S357	48	(may and patents).aanm.	US-PGPUB; USPAT	OR	ON	2018/01/19 19:43
S358	44	(may and patents).as.	US-PGPUB; USPAT	OR	ON	2018/01/19 19:43
S359	0	(fire and eye).aanm.	US-PGPUB; USPAT	ADJ	ON	2018/01/19 19:44
S360	140	(fireeye).as.	US-PGPUB; USPAT	ADJ	ON	2018/01/19 19:44
S361	113	(fireeye).aanm.	US-PGPUB; USPAT	ADJ	ON	2018/01/19 19:44
S362	1	(US-20130201316-$).did.	US-PGPUB	ADJ	ON	2018/01/19 19:44
S363	674	(home with network) same sensor same gateway same network	US-PGPUB	ADJ	ON	2018/01/19 19:44
S364	293	(home with network) with sensor with gateway	US-PGPUB	ADJ	ON	2018/01/19 19:44
S365	5	(home with network) with sensor with gateway with command	US-PGPUB	ADJ	ON	2018/01/19 19:44
S366	22	(US-20130201316-$ or US-20100030421-$ or US-20120303216-$ or US-20140188343-$ or US-20140236384-$ or US-20070076593-$ or US-20100211258-$ or US-20080100428-$ or US-	US-PGPUB; USPAT	ADJ	ON	2018/01/19 19:44

		20060111825-$ or US-20100148940-$ or US-20100201516-$ or US-20110035491-$ or US-20150046582-$ or US-20160062330-$).did. or (US-8140658-$ or US-7844687-$ or US-7797367-$ or US-7020701-$ or US-6859831-$ or US-6832251-$ or US-6826607-$ or US-6735630-$).did.				
S367	21	S366 and (vehicle or vehical or automobile or car)	US-PGPUB; USPAT	ADJ	ON	2018/01/19 19:44
S368	21	S366 and (vehicle or vehical or automobile or car) and actuator	US-PGPUB; USPAT	ADJ	ON	2018/01/19 19:44
S369	15	S366 and (vehicle or vehical or automobile or car) and actuator and sensor and network and cellular and wireless	US-PGPUB; USPAT	ADJ	ON	2018/01/19 19:44
S370	15	S366 and (coupled)	US-PGPUB; USPAT	ADJ	ON	2018/01/19 19:44
S371	1	S366 and (router)	US-PGPUB; USPAT	ADJ	ON	2018/01/19 19:44
S372	1030	(vehicle or car) with router with (control or server) with network	US-PGPUB; USPAT	ADJ	ON	2018/01/19 19:44
S373	18	(vehicle or car) with router with (control or server) with network with actuator	US-PGPUB; USPAT	ADJ	ON	2018/01/19 19:44
S374	2	"20090198380"	US-PGPUB; USPAT	ADJ	ON	2018/01/19 19:44
S375	1865	S359 S360 S361 S362 S363 S364 S365 S366 S367 S368 S369 S370 S371 S372 S373 S374	US-PGPUB; USPAT	OR	ON	2018/01/19 19:44
S376	13516	H04L67/12.cpc.	US-PGPUB; USPAT	OR	ON	2018/01/19 19:45
S377	27138	B60K 31/00.cpc.	US-PGPUB; USPAT	OR	ON	2018/01/19 19:45
S378	27138	B60K 31/18.cpc.	US-PGPUB; USPAT	OR	ON	2018/01/19 19:45
S379	293	B60Y2200/11.cpc.	US-PGPUB; USPAT	OR	ON	2018/01/19 19:45
S380	889	B60Y2200/12.cpc.	US-PGPUB; USPAT	OR	ON	2018/01/19 19:45
S381	202	B60Y2200/126.cpc.	US-PGPUB; USPAT	OR	ON	2018/01/19 19:45
S382	329	B60Y2200/13.cpc.	US-PGPUB; USPAT	OR	ON	2018/01/19 19:45
S383	37	B60Y2200/30.cpc.	US-PGPUB;	OR	ON	2018/01/19 19:45

			USPAT			
S384	113	B60Y2200/40.cpc.	US-PGPUB; USPAT	OR	ON	2018/01/19 19:45
S385	17	B60Y2200/50.cpc.	US-PGPUB; USPAT	OR	ON	2018/01/19 19:45
S386	94	B60Y2200/90.cpc.	US-PGPUB; USPAT	OR	ON	2018/01/19 19:45
S387	38949	G01C 21/00.cpc.	US-PGPUB; USPAT	OR	ON	2018/01/19 19:45
S388	183	G06Q2240/00.cpc.	US-PGPUB; USPAT	OR	ON	2018/01/19 19:45
S389	10308	G07C 5/008.cpc.	US-PGPUB; USPAT	OR	ON	2018/01/19 19:45
S390	44418	G08G 1/00	US-PGPUB; USPAT	OR	ON	2018/01/19 19:45
S391	17401	G08G 1/00.cpc.	US-PGPUB; USPAT	OR	ON	2018/01/19 19:45
S392	127924	S376 S377 S378 S379 S380 S381 S382 S383 S384 S385 S386 S387 S388 S389 S390 S391	US-PGPUB; USPAT	OR	ON	2018/01/19 19:45
S393	2	"15657163"	US-PGPUB; USPAT	ADJ	ON	2018/06/15 17:22
S394	1	(US-20170331899-$).did.	US-PGPUB	OR	OFF	2018/06/15 17:22
S395	1	(US-20170331899-$).did.	US-PGPUB	OR	OFF	2018/06/17 15:00
S396	1	S395 and (voice with algorithm)	US-PGPUB	OR	OFF	2018/06/17 15:00
S397	1	(US-20170331899-$).did.	US-PGPUB	OR	OFF	2018/06/17 16:04
S398	1	S397 and (sensor with convection)	US-PGPUB	OR	OFF	2018/06/17 16:04
S399	12	(US-20160062330-$ or US-20090198380-$ or US-20150046582-$ or US-20070283005-$ or US-20130308581-$ or US-20100071053-$ or US-20030105389-$ or US-20130091279-$ or US-20090224906-$ or US-20080307075-$ or US-20090089065-$ or US-20170272316-$).did.	US-PGPUB	OR	OFF	2018/06/18 06:55
S400	0	S399 and (voice or audio)	USPAT	OR	OFF	2018/06/18 06:55
S401	0	S399 and (voice or audio)	USPAT	OR	ON	2018/06/18 06:55
S402	0	S399 and (voice or audio)	USPAT	OR	OFF	2018/06/18 06:55
S403	0	S399 and audio	USPAT	OR	OFF	2018/06/18

						06:56
S404	0	S399 and (voice or audio)	USPAT	OR	OFF	2018/06/18 06:56
S405	9	S399 and (voice or audio)	US-PGPUB; USPAT	OR	OFF	2018/06/18 06:56
S406	5	S399 and ((voice or audio or speech) with (command or control))	US-PGPUB; USPAT	OR	OFF	2018/06/18 06:58
S407	6	S399 and (mic or microphone)	US-PGPUB; USPAT	OR	OFF	2018/06/18 07:02
S408	42	(US-20130201316-$ or US-20100030421-$ or US-20120303216-$ or US-20140188343-$ or US-20140236384-$ or US-20070076593-$ or US-20100211258-$ or US-20080100428-$ or US-20060111825-$ or US-20100148940-$ or US-20100201516-$ or US-20110035491-$ or US-20150046582-$ or US-20160062330-$ or US-20060217840-$ or US-20090198380-$ or US-20150295788-$ or US-20120253480-$ or US-20070283005-$ or US-20100071053-$ or US-20130091254-$ or US-20140286348-$ or US-20130091279-$ or US-20030105389-$ or US-20130139440-$ or US-20130308581-$).did. or (US-20110118888-$ or US-20080031139-$ or US-20080068156-$ or US-20080307075-$ or US-20170111158-$ or US-20090224906-$ or US-20090089065-$ or US-20170272316-$).did. or (US-8140658-$ or US-7844687-$ or US-7797367-$ or US-7020701-$ or US-6859831-$ or US-6832251-$ or US-6826607-$ or US-6735630-$).did.	US-PGPUB; USPAT	OR	OFF	2018/06/18 07:16
S409	18	S408 and (mic or microphone)	US-PGPUB; USPAT	OR	OFF	2018/06/18 07:16
S410	7	S408 and ((voice or audio or speech) with (command or control))	US-PGPUB; USPAT	OR	OFF	2018/06/18 07:16
S411	5	S408 and ((voice or audio or speech) NEAR9 (command or control))	US-PGPUB; USPAT	OR	OFF	2018/06/18 07:17
S412	0	S408 and ((speech with control with process) same (external with server))	US-PGPUB; USPAT	OR	OFF	2018/06/18 07:20
S413	1	S408 and ((speech with control with process) same (external))	US-PGPUB; USPAT	OR	OFF	2018/06/18 07:21
S414	14	S408 and ((control with process))	US-PGPUB; USPAT	OR	OFF	2018/06/18 07:21
S415	7	S408 and (((speech or voice or audio) with control))	US-PGPUB; USPAT	OR	OFF	2018/06/18 07:22
S416	7	S415 and wireless	US-	OR	OFF	2018/06/18

			PGPUB; USPAT			07:28
S417	11	S399 and (wireless)	US-PGPUB; USPAT	OR	OFF	2018/06/18 07:28
S418	2	"20050273505"	US-PGPUB; USPAT	OR	OFF	2018/06/18 09:53
S419	2	"20060212194"	US-PGPUB; USPAT	OR	OFF	2018/06/18 09:53
S420	8	("20050273505" | "20060212194" | "20070096565" | "20070176740" | "20080129475" | "20080136670" | "20100207754" | "20130139440").PN.	US-PGPUB; USPAT	OR	OFF	2018/06/18 09:55
S421	0	S420 and appliance	USPAT	OR	OFF	2018/06/18 09:55
S422	3	("20080307075" | "20090089065" | "20170272316").PN.	US-PGPUB; USPAT	OR	OFF	2018/06/18 09:55
S423	0	S422 and appliance	USPAT	OR	OFF	2018/06/18 09:55
S424	0	S420 and appliance	US-PGPUB; USPAT	OR	ON	2018/06/18 09:56
S425	1	S422 and appliance	US-PGPUB; USPAT	OR	ON	2018/06/18 09:56
S426	21	"8447843"	US-PGPUB; USPAT	OR	ON	2018/06/18 09:58
S427	1	"8447843".pn.	US-PGPUB; USPAT	OR	ON	2018/06/18 09:58
S428	3	"20080077425"	US-PGPUB; USPAT	OR	ON	2018/06/18 09:58
S429	0	S428 and appliance	US-PGPUB; USPAT	OR	ON	2018/06/18 09:58
S430	0	S428 and kitchen	US-PGPUB; USPAT	OR	ON	2018/06/18 09:59
S431	21	("20030009271" | "20030105389" | "20060111825" | "20070021847" | "20070198144" | "20070283005" | "20080100428" | "20090138136" | "20090198380" | "20090224906" | "20100030421" | "20100071053" | "20100211258" | "20110153149" | "20120079149" | "20130091279" | "20130308581" | "20140215491" | "20150046582" | "20160062330" | "20160344745").PN.	US-PGPUB; USPAT	OR	OFF	2018/06/18 09:59
S432	7	S431 and appliance	US-PGPUB; USPAT	OR	ON	2018/06/18 09:59
S433	134	("0000001" | "0000002" | "0000030" |	US-	OR	OFF	2018/06/18

		"0000058" | "0000065" | "0000105" | "0000135" | "0000158" | "0002002" | "0006263" | "0006324" | "0006865" | "0040919" | "0064736" | "0066069" | "0089847" | "0500145" | "0732666" | "120050044119" | "120050247573" | "120070112939" | "120080263117" | "120100201531" | "120110041604" | "120110222726" | "14248123" | "15010399" | "15134887" | "15710833" | "15724456" | "15987154" | "16109331" | "16188777" | "16329160" | "16501857" | "16504942" | "16549616" | "16931596" | "17213061" | "17317815" | "17321936" | "17414186" | "17598942" | "17614305" | "17617729" | "1784721" | "20020009383" | "20020010938" | "20030092261" | "20030099228" | "20040182167" | "20050000120" | "20050010957" | "20050180561" | "20070132725" | "20090272193" | "20100000218" | "20100162815" | "20120268373" | "2171640" | "3184842" | "382264836" | "4019073" | "4047187" | "4243631" | "4317991" | "4351192" | "4367027" | "4414537" | "4434451" | "4638364" | "4759220" | "4796891" | "4853884" | "4857273" | "4905176" | "5046022" | "5047952" | "5105087" | "5138459" | "5274631" | "5291234" | "5349129" | "5386103" | "5402170" | "5454043" | "5488429" | "5510765" | "5511547" | "5578877" | "5621455" | "56344119" | "5652849" | "5666159" | "5781650" | "5818975" | "5835616" | "5870138" | "5896443" | "5930201" | "5948965" | "5962786" | "5978519" | "5991456" | "6069899" | "6097470" | "6101271" | "6128397" | "6132281" | "6149312" | "6151073" | "6211636393148" | "6216160" | "6282317" | "6285761" | "6301370" | "6404900" | "6407777" | "6421468" | "6437576" | "6452499" | "6459436" | "6473199" | "6476372" | "6504951" | "6526161" | "6535243" | "6549234" | "6552743" | "6670125" | "6693296216311" | "6694316" | "6714021" | "6747258" | "67883325" | "6806722" | "6820225" | "6844897" | "6862353" | "6895803" | "6940545" | "6967565" | "7010050" | "7124157" | "7239577" | "7256466" | "7289645" | "7315630" | "7327385" | "7342212" | "7432952" | "7466866" | "7499239" | "7508961" | "7653573" | "7688036" | "7692320" | "7716985" | "7821541" | "7843336" | "8016205" | "8115646" | "8180492" | "8214070" | "95578755" | "RE00031" | "RE33682" | "T000005" | "T009255" | "T092876" | "T746684").PN.	PGPUB; USPAT			10:01
S434	4	S433 and appliance	US-PGPUB; USPAT	OR	OFF	2018/06/18 10:01
S435	4	S433 and (appliance or stove or	US-	OR	OFF	2018/06/18

		refrigerator)	PGPUB; USPAT			10:02
S436	1	"20040267385"	US-PGPUB; USPAT	OR	OFF	2018/06/18 10:03
S437	1	S422 and (appliance or stove or refrigerator)	US-PGPUB; USPAT	OR	OFF	2018/06/18 10:04
S438	0	S428 and (appliance or stove or refrigerator)	US-PGPUB; USPAT	OR	OFF	2018/06/18 10:04
S439	5	S431 and (appliance or stove or refrigerator)	US-PGPUB; USPAT	OR	OFF	2018/06/18 10:04
S440	44	(US-20130201316-$ or US-20100030421-$ or US-20120303216-$ or US-20140188343-$ or US-20140236384-$ or US-20070076593-$ or US-20100211258-$ or US-20080100428-$ or US-20060111825-$ or US-20100148940-$ or US-20100201516-$ or US-20110035491-$ or US-20150046582-$ or US-20160062330-$ or US-20060217840-$ or US-20090198380-$ or US-20150295788-$ or US-20120253480-$ or US-20070283005-$ or US-20100071053-$ or US-20130091254-$ or US-20140286348-$ or US-20130091279-$ or US-20030105389-$ or US-20130139440-$ or US-20130308581-$).did. or (US-20110118888-$ or US-20080031139-$ or US-20080068156-$ or US-20080307075-$ or US-20170111158-$ or US-20090224906-$ or US-20090089065-$ or US-20170272316-$ or US-20080077425-$ or US-20040267385-$).did. or (US-8140658-$ or US-7844687-$ or US-7797367-$ or US-7020701-$ or US-6859831-$ or US-6832251-$ or US-6826607-$ or US-6735630-$).did.	US-PGPUB; USPAT	OR	OFF	2018/06/18 10:05
S441	8	S440 and (appliance or stove or refrigerator)	US-PGPUB; USPAT	OR	OFF	2018/06/18 10:05
S442	1	S440 and (stove or refrigerator)	US-PGPUB; USPAT	OR	OFF	2018/06/18 10:05
S443	22	S440 and (appliance or stove or refrigerator or air$1conditioner or microwave)	US-PGPUB; USPAT	OR	OFF	2018/06/18 10:21
S444	15	S440 and (stove or refrigerator or air$1conditioner or microwave)	US-PGPUB; USPAT	OR	OFF	2018/06/18 10:21
S445	6	S440 and (stove or refrigerator or air adj conditioner)	US-PGPUB; USPAT	OR	OFF	2018/06/18 10:22
S446	1	S440 and (burner or stove or oven)	US-PGPUB; USPAT	OR	OFF	2018/06/18 10:26
S447	0	S399 and (burner or stove or oven)	US-PGPUB;	OR	OFF	2018/06/18 10:26

			USPAT			
S448	0	S399 and (burner or stove or oven)	US-PGPUB; USPAT	OR	ON	2018/06/18 10:26
S449	1	S440 and (burner or stove or oven)	US-PGPUB; USPAT	OR	ON	2018/06/18 10:26
S450	3	(US-20160062330-$ or US-20070283005-$ or US-20090089065-$).did.	US-PGPUB	OR	OFF	2018/06/18 11:23
S451	1	(US-20080077425-$).did.	US-PGPUB	OR	OFF	2018/06/18 11:27
S452	0	S451 and IoT	US-PGPUB; USPAT	OR	ON	2018/06/18 11:27
S453	44	(US-20130201316-$ or US-20100030421-$ or US-20120303216-$ or US-20140188343-$ or US-20140236384-$ or US-20070076593-$ or US-20100211258-$ or US-20080100428-$ or US-20060111825-$ or US-20100148940-$ or US-20100201516-$ or US-20110035491-$ or US-20150046582-$ or US-20160062330-$ or US-20060217840-$ or US-20090198380-$ or US-20150295788-$ or US-20120253480-$ or US-20070283005-$ or US-20100071053-$ or US-20130091254-$ or US-20140286348-$ or US-20130091279-$ or US-20030105389-$ or US-20130139440-$ or US-20130308581-$).did. or (US-20110118888-$ or US-20080031139-$ or US-20080068156-$ or US-20080307075-$ or US-20170111158-$ or US-20090224906-$ or US-20090089065-$ or US-20170272316-$ or US-20080077425-$ or US-20040267385-$).did. or (US-8140658-$ or US-7844687-$ or US-7797367-$ or US-7020701-$ or US-6859831-$ or US-6832251-$ or US-6826607-$ or US-6735630-$).did.	US-PGPUB; USPAT	OR	OFF	2018/06/18 11:27
S457	1	S453 and IoT	US-PGPUB; USPAT	OR	ON	2018/06/18 11:28
S458	1	S450 and (LAN or (local adj2 area))	US-PGPUB	OR	ON	2018/06/18 11:32
S459	227	(yehuda and binder).in.	US-PGPUB	ADJ	ON	2018/06/18 12:53
S460	31	(benjamin and maytal).in.	US-PGPUB	ADJ	ON	2018/06/18 12:53
S461	26	(may and patents).as.	US-PGPUB	ADJ	ON	2018/06/18 12:53
S462	39	(may and patents).aanm.	US-PGPUB	ADJ	ON	2018/06/18 12:53
S463	57	S461 or S462	US-PGPUB	ADJ	ON	2018/06/18 12:53
S464	253	S459 or S460	US-PGPUB	ADJ	ON	2018/06/18 12:53
S465	253	S463 or S464	US-	ADJ	ON	2018/06/18

			PGPUB			12:53
S466	2	S465 and (vehicle and router and actuator).clm.	US-PGPUB	ADJ	ON	2018/06/18 12:53
S467	9404	H04L67/12.cpc.	US-PGPUB	ADJ	ON	2018/06/18 12:54
S468	997	348/77.ccls.	US-PGPUB	ADJ	ON	2018/06/18 12:54
S469	374	700/28.ccls.	US-PGPUB	ADJ	ON	2018/06/18 12:54
S470	148	700/22.ccls.	US-PGPUB	ADJ	ON	2018/06/18 12:54
S471	1455	709/218.ccls.	US-PGPUB	ADJ	ON	2018/06/18 12:54
S472	12341	S467 or S468 or S469 or S470 or S471	US-PGPUB	ADJ	ON	2018/06/18 12:54
S473	5776	709/218.ccls.	US-PGPUB; USPAT	OR	ON	2018/06/18 12:59
S474	14669	H04L67/12.cpc.	US-PGPUB; USPAT	OR	ON	2018/06/18 12:59
S475	29542	B60K 31/00.cpc.	US-PGPUB; USPAT	OR	ON	2018/06/18 12:59
S476	29542	B60K 31/18.cpc.	US-PGPUB; USPAT	OR	ON	2018/06/18 12:59
S477	300	B60Y2200/11.cpc.	US-PGPUB; USPAT	OR	ON	2018/06/18 12:59
S478	915	B60Y2200/12.cpc.	US-PGPUB; USPAT	OR	ON	2018/06/18 12:59
S479	217	B60Y2200/126.cpc.	US-PGPUB; USPAT	OR	ON	2018/06/18 12:59
S480	339	B60Y2200/13.cpc.	US-PGPUB; USPAT	OR	ON	2018/06/18 12:59
S481	42	B60Y2200/30.cpc.	US-PGPUB; USPAT	OR	ON	2018/06/18 12:59
S482	128	B60Y2200/40.cpc.	US-PGPUB; USPAT	OR	ON	2018/06/18 12:59
S483	23	B60Y2200/50.cpc.	US-PGPUB; USPAT	OR	ON	2018/06/18 12:59
S484	104	B60Y2200/90.cpc.	US-PGPUB; USPAT	OR	ON	2018/06/18 12:59
S485	41547	G01C 21/00.cpc.	US-PGPUB; USPAT	OR	ON	2018/06/18 12:59
S486	204	G06Q2240/00.cpc.	US-PGPUB;	OR	ON	2018/06/18 12:59

			USPAT			
S487	11825	G07C 5/008.cpc.	US-PGPUB; USPAT	OR	ON	2018/06/18 12:59
S488	49737	G08G 1/00	US-PGPUB; USPAT	OR	ON	2018/06/18 12:59
S489	19313	G08G 1/00.cpc.	US-PGPUB; USPAT	OR	ON	2018/06/18 12:59
S490	48	(may and patents).as.	US-PGPUB; USPAT	OR	ON	2018/06/18 12:59
S491	55	(may and patents).aanm.	US-PGPUB; USPAT	OR	ON	2018/06/18 12:59
S492	395	(binder and yehuda).in.	US-PGPUB; USPAT	OR	ON	2018/06/18 12:59
S493	44	(maytal and benjamin).in.	US-PGPUB; USPAT	OR	ON	2018/06/18 12:59
S494	14669	H04L67/12.cpc.	US-PGPUB; USPAT	OR	ON	2018/06/18 12:59
S495	19392	709/218.ccls..	US-PGPUB; USPAT	OR	ON	2018/06/18 12:59
S496	44	(maytal and benjamin).in.	US-PGPUB; USPAT	OR	ON	2018/06/18 12:59
S497	395	(binder and yehuda).in.	US-PGPUB; USPAT	OR	ON	2018/06/18 12:59
S498	55	(may and patents).aanm.	US-PGPUB; USPAT	OR	ON	2018/06/18 12:59
S499	48	(may and patents).as.	US-PGPUB; USPAT	OR	ON	2018/06/18 12:59
S500	159408	S473 S474 S475 S476 S477 S478 S479 S480 S481 S482 S483 S484 S485 S486 S487 S488 S489 S490 S491 S492 S493 S494 S495 S496 S497 S498 S499	US-PGPUB; USPAT	OR	ON	2018/06/18 12:59
S501	10	S500 and (vehicle and router and actuator).clm.	US-PGPUB; USPAT	ADJ	ON	2018/06/18 13:01
S502	2	"15657163"	US-PGPUB; USPAT	OR	OFF	2018/06/18 13:02
S503	1	S500 and (human with voice with actuator with client).clm.	US-PGPUB; USPAT	ADJ	ON	2018/06/18 13:02
S504	5775	709/218.ccls.	US-PGPUB; USPAT	OR	ON	2018/08/30 15:54
S505	16337	H04L67/12.cpc.	US-	OR	ON	2018/08/30

			PGPUB; USPAT			15:54
S506	30893	B60K 31/00.cpc.	US-PGPUB; USPAT	OR	ON	2018/08/30 15:54
S507	30893	B60K 31/18.cpc.	US-PGPUB; USPAT	OR	ON	2018/08/30 15:54
S508	307	B60Y2200/11.cpc.	US-PGPUB; USPAT	OR	ON	2018/08/30 15:54
S509	964	B60Y2200/12.cpc.	US-PGPUB; USPAT	OR	ON	2018/08/30 15:54
S510	228	B60Y2200/126.cpc.	US-PGPUB; USPAT	OR	ON	2018/08/30 15:54
S511	372	B60Y2200/13.cpc.	US-PGPUB; USPAT	OR	ON	2018/08/30 15:54
S512	47	B60Y2200/30.cpc.	US-PGPUB; USPAT	OR	ON	2018/08/30 15:54
S513	139	B60Y2200/40.cpc.	US-PGPUB; USPAT	OR	ON	2018/08/30 15:54
S514	28	B60Y2200/50.cpc.	US-PGPUB; USPAT	OR	ON	2018/08/30 15:54
S515	117	B60Y2200/90.cpc.	US-PGPUB; USPAT	OR	ON	2018/08/30 15:54
S516	43002	G01C 21/00.cpc.	US-PGPUB; USPAT	OR	ON	2018/08/30 15:54
S517	267	G06Q2240/00.cpc.	US-PGPUB; USPAT	OR	ON	2018/08/30 15:54
S518	12674	G07C 5/008.cpc.	US-PGPUB; USPAT	OR	ON	2018/08/30 15:54
S519	52730	G08G 1/00	US-PGPUB; USPAT	OR	ON	2018/08/30 15:54
S520	20427	G08G 1/00.cpc.	US-PGPUB; USPAT	OR	ON	2018/08/30 15:54
S521	48	(may and patents).as.	US-PGPUB; USPAT	OR	ON	2018/08/30 15:54
S522	56	(may and patents).aanm.	US-PGPUB; USPAT	OR	ON	2018/08/30 15:54
S523	396	(binder and yehuda).in.	US-PGPUB; USPAT	OR	ON	2018/08/30 15:54
S524	44	(maytal and benjamin).in.	US-	OR	ON	2018/08/30

			PGPUB; USPAT			15:54
S525	16337	H04L67/12.cpc.	US-PGPUB; USPAT	OR	ON	2018/08/30 15:54
S526	19576	709/218.ccls..	US-PGPUB; USPAT	OR	ON	2018/08/30 15:54
S527	44	(maytal and benjamin).in.	US-PGPUB; USPAT	OR	ON	2018/08/30 15:54
S528	396	(binder and yehuda).in.	US-PGPUB; USPAT	OR	ON	2018/08/30 15:54
S529	56	(may and patents).aanm.	US-PGPUB; USPAT	OR	ON	2018/08/30 15:54
S530	48	(may and patents).as.	US-PGPUB; USPAT	OR	ON	2018/08/30 15:54
S531	167168	S504 S505 S506 S507 S508 S509 S510 S511 S512 S513 S514 S515 S516 S517 S518 S519 S520 S521 S522 S523 S524 S525 S526 S527 S528 S529 S530	US-PGPUB; USPAT	OR	ON	2018/08/30 15:54
S532	1	S531 and (human with voice with actuator with client).clm.	US-PGPUB; USPAT	ADJ	ON	2018/08/30 15:54
S533	7	(US-20160062330-$ or US-20070283005-$ or US-20100071053-$ or US-20130091279-$ or US-20080307075-$ or US-20090089065-$ or US-20170272316-$).did.	US-PGPUB	OR	OFF	2018/08/31 12:30
S534	1	"15832787"	US-PGPUB; USPAT	OR	OFF	2018/09/15 21:04
S535	32	("20070198144" | "20100211258" | "20160062330" | "20170272316" | "20070096565" | "20070176740" | "20100071053" | "20140215491" | "20150046582" | "20160344745" | "20060212194" | "20120079149" | "20030105389" | "20090138136" | "20090224906" | "20080129475" | "20080136670" | "20130091279" | "20130308581" | "20130139440" | "20080100428" | "20080307075" | "20110153149" | "20050273505" | "20060111825" | "20070021847" | "20090198380" | "20100030421" | "20030009271" | "20070283005" | "20090089065" | "20100207754").PN.	US-PGPUB; USPAT	OR	OFF	2018/09/16 02:08
S536	7	(US-20160062330-$ or US-20070283005-$ or US-20100071053-$ or US-20130091279-$ or US-20080307075-$ or US-20090089065-$ or US-20170272316-$).did.	US-PGPUB	OR	OFF	2018/09/16 02:13
S537	45	(US-20130201316-$ or US-20100030421-$ or US-20120303216-$ or US-20140188343-$ or US-20140236384-$ or	US-PGPUB; USPAT	OR	OFF	2018/09/16 02:13

		US-20070076593-$ or US-20100211258-$ or US-20080100428-$ or US-20060111825-$ or US-20100148940-$ or US-20100201516-$ or US-20110035491-$ or US-20150046582-$ or US-20160062330-$ or US-20060217840-$ or US-20090198380-$ or US-20150295788-$ or US-20120253480-$ or US-20070283005-$ or US-20100071053-$ or US-20130091254-$ or US-20140286348-$ or US-20130091279-$ or US-20030105389-$ or US-20130139440-$ or US-20130308581-$).did. or (US-20110118888-$ or US-20080031139-$ or US-20080068156-$ or US-20080307075-$ or US-20170111158-$ or US-20090224906-$ or US-20090089065-$ or US-20170272316-$ or US-20080077425-$ or US-20040267385-$ or US-20180124181-$).did. or (US-8140658-$ or US-7844687-$ or US-7797367-$ or US-7020701-$ or US-6859831-$ or US-6832251-$ or US-6826607-$ or US-6735630-$).did.				
S538	7	S535 and S536 and S537	US-PGPUB; USPAT	OR	OFF	2018/09/16 02:13
S539	60	S535 or S536 or S537	US-PGPUB; USPAT	OR	OFF	2018/09/16 02:13
S540	17	S539 and ((voice or audio or speech) with control)	US-PGPUB; USPAT	OR	OFF	2018/09/16 02:13
S541	13	S540 and (LED or light)	US-PGPUB; USPAT	OR	OFF	2018/09/16 02:13
S542	8	S539 and ((voice or audio or speech) adj3 control)	US-PGPUB; USPAT	OR	OFF	2018/09/16 02:14
S543	7	S542 and (LED or light)	US-PGPUB; USPAT	OR	OFF	2018/09/16 02:14
S544	4	S542 and ((actuator or respond or response or responsing or alerting or notifying or alert or notify or notifcation) with (LED or light))	US-PGPUB; USPAT	OR	OFF	2018/09/16 02:22
S545	13	S539 and ((actuator or respond or response or responsing or alerting or notifying or alert or notify or notifcation) with (LED or light))	US-PGPUB; USPAT	OR	OFF	2018/09/16 02:22
S546	32	("20070198144" | "20100211258" | "20160062330" | "20170272316" | "20070096565" | "20070176740" | "20100071053" | "20140215491" | "20150046582" | "20160344745" | "20060212194" | "20120079149" | "20030105389" | "20090138136" | "20090224906" | "20080129475" | "20080136670" | "20130091279" | "20130308581" | "20130139440" | "20080100428" | "20080307075" |	US-PGPUB; USPAT	OR	OFF	2018/09/16 17:50

		"20110153149" | "20050273505" | "20060111825" | "20070021847" | "20090198380" | "20100030421" | "20030009271" | "20070283005" | "20090089065" | "20100207754").PN.				
S547	7	(US-20160062330-$ or US-20070283005-$ or US-20100071053-$ or US-20130091279-$ or US-20080307075-$ or US-20090089065-$ or US-20170272316-$).did.	US-PGPUB	OR	OFF	2018/09/16 17:50
S548	45	(US-20130201316-$ or US-20100030421-$ or US-20120303216-$ or US-20140188343-$ or US-20140236384-$ or US-20070076593-$ or US-20100211258-$ or US-20080100428-$ or US-20060111825-$ or US-20100148940-$ or US-20100201516-$ or US-20110035491-$ or US-20150046582-$ or US-20160062330-$ or US-20060217840-$ or US-20090198380-$ or US-20150295788-$ or US-20120253480-$ or US-20070283005-$ or US-20100071053-$ or US-20130091254-$ or US-20140286348-$ or US-20130091279-$ or US-20030105389-$ or US-20130139440-$ or US-20130308581-$).did. or (US-20110118888-$ or US-20080031139-$ or US-20080068156-$ or US-20080307075-$ or US-20170111158-$ or US-20090224906-$ or US-20090089065-$ or US-20170272316-$ or US-20080077425-$ or US-20040267385-$ or US-20180124181-$).did. or (US-8140658-$ or US-7844687-$ or US-7797367-$ or US-7020701-$ or US-6859831-$ or US-6832251-$ or US-6826607-$ or US-6735630-$).did.	US-PGPUB; USPAT	OR	OFF	2018/09/16 17:50
S549	60	S546 or S547 or S548	US-PGPUB; USPAT	OR	OFF	2018/09/16 17:50
S550	13	S549 and ((actuator or respond or response or responsing or alerting or notifying or alert or notify or notifcation) with (LED or light))	US-PGPUB; USPAT	OR	OFF	2018/09/16 17:50
S551	13929	sensor same actuator same light	US-PGPUB; USPAT	OR	OFF	2018/09/16 17:54
S552	40441	home with security	US-PGPUB; USPAT	OR	OFF	2018/09/16 17:54
S553	38871	S552 and (control or central or server)	US-PGPUB; USPAT	OR	OFF	2018/09/16 17:55
S554	3449	S553 and (actuator)	US-PGPUB; USPAT	OR	OFF	2018/09/16 17:55
S555	1784	S554 and light and LED	US-PGPUB; USPAT	OR	OFF	2018/09/16 17:55
S556	9664	S553 and light and LED	US-	OR	OFF	2018/09/16

			PGPUB; USPAT			17:55
S557	6008	S556 and alarm	US-PGPUB; USPAT	OR	OFF	2018/09/16 17:55
S558	5158	S557 and internet	US-PGPUB; USPAT	OR	OFF	2018/09/16 17:56
S559	5700	S557 and wireless	US-PGPUB; USPAT	OR	OFF	2018/09/16 17:56
S560	5082	S559 and internet	US-PGPUB; USPAT	OR	OFF	2018/09/16 17:56
S561	26	(may and patents).as.	US-PGPUB	ADJ	ON	2018/09/16 17:57
S562	40	(may and patents).aanm.	US-PGPUB	ADJ	ON	2018/09/16 17:57
S563	58	S561 or S562	US-PGPUB	ADJ	ON	2018/09/16 17:57
S564	5130	S560 XOR S563	US-PGPUB; USPAT	OR	OFF	2018/09/16 17:57
S565	152	S560 and (actuator with light)	US-PGPUB; USPAT	OR	OFF	2018/09/16 17:58
S566	234	S560 and (actuator same light)	US-PGPUB; USPAT	OR	OFF	2018/09/16 17:58
S567	715	S560 and (sensor with internet)	US-PGPUB; USPAT	OR	OFF	2018/09/16 20:02
S568	47	S565 and (sensor with internet)	US-PGPUB; USPAT	OR	OFF	2018/09/16 20:02
S569	9	S565 and (sensor NEAR7 internet)	US-PGPUB; USPAT	OR	OFF	2018/09/16 20:02
S570	45	S568 and (control$4 with light)	US-PGPUB; USPAT	OR	OFF	2018/09/16 20:07
S571	42	S568 and (control$4 NEAR9 light)	US-PGPUB; USPAT	OR	OFF	2018/09/16 20:07
S572	2	(US-20070283005-$ or US-20180253069-$).did.	US-PGPUB	OR	OFF	2018/09/16 21:47
S573	1	S572 and lamp	US-PGPUB; USPAT	OR	OFF	2018/09/16 21:47
S574	3	(US-20070283005-$ or US-20090089065-$ or US-20180253069-$).did.	US-PGPUB	OR	OFF	2018/09/16 21:51
S575	3	S574 and (voice)	US-PGPUB	OR	OFF	2018/09/16 21:51
S576	3	S574 and (speech or voice)	US-PGPUB	OR	OFF	2018/09/16 21:52
S577	1	S574 and (speech)	US-	OR	OFF	2018/09/16

			PGPUB			21:52
S578	47	(US-20130201316-$ or US-20100030421-$ or US-20120303216-$ or US-20140188343-$ or US-20140236384-$ or US-20070076593-$ or US-20100211258-$ or US-20080100428-$ or US-20060111825-$ or US-20100148940-$ or US-20100201516-$ or US-20110035491-$ or US-20150046582-$ or US-20160062330-$ or US-20060217840-$ or US-20090198380-$ or US-20150295788-$ or US-20120253480-$ or US-20070283005-$ or US-20100071053-$ or US-20130091254-$ or US-20140286348-$ or US-20130091279-$ or US-20030105389-$ or US-20130139440-$ or US-20130308581-$).did. or (US-20110118888-$ or US-20080031139-$ or US-20080068156-$ or US-20080307075-$ or US-20170111158-$ or US-20090224906-$ or US-20090089065-$ or US-20170272316-$ or US-20080077425-$ or US-20040267385-$ or US-20180124181-$ or US-20050216302-$ or US-20180253069-$).did. or (US-8140658-$ or US-7844687-$ or US-7797367-$ or US-7020701-$ or US-6859831-$ or US-6832251-$ or US-6826607-$ or US-6735630-$).did.	US-PGPUB; USPAT	OR	OFF	2018/09/16 21:52
S579	8	S578 and ((speech or voice) with control)	US-PGPUB; USPAT	OR	OFF	2018/09/16 21:53
S580	1	S574 and (lamp)	US-PGPUB	OR	OFF	2018/09/16 21:54
S581	2	S574 and (LED or light or bulb)	US-PGPUB	OR	OFF	2018/09/16 21:55
S582	1	"20080215391"	US-PGPUB	OR	OFF	2018/09/16 22:08
S583	2	(US-20070283005-$ or US-20080215391-$).did.	US-PGPUB	OR	OFF	2018/09/16 22:16
S584	1	"15832787"	US-PGPUB	OR	OFF	2018/09/16 22:40
S585	5775	709/218.ccls.	US-PGPUB; USPAT	OR	OFF	2018/09/17 00:59
S586	16494	H04L67/12.cpc.	US-PGPUB; USPAT	OR	OFF	2018/09/17 00:59
S587	31132	B60K 31/00.cpc.	US-PGPUB; USPAT	OR	OFF	2018/09/17 00:59
S588	150	B60K31/18.cpc.	US-PGPUB; USPAT	OR	OFF	2018/09/17 00:59
S589	670	B60K31/00.cpc.	US-PGPUB; USPAT	OR	OFF	2018/09/17 00:59
S590	309	B60Y2200/11.cpc.	US-PGPUB;	OR	OFF	2018/09/17 01:00

			USPAT			
S591	966	B60Y2200/12.cpc.	US-PGPUB; USPAT	OR	OFF	2018/09/17 01:00
S592	230	B60Y2200/126.cpc.	US-PGPUB; USPAT	OR	OFF	2018/09/17 01:00
S593	378	B60Y2200/13.cpc.	US-PGPUB; USPAT	OR	OFF	2018/09/17 01:00
S594	48	B60Y2200/30.cpc.	US-PGPUB; USPAT	OR	OFF	2018/09/17 01:00
S595	139	B60Y2200/40.cpc.	US-PGPUB; USPAT	OR	OFF	2018/09/17 01:00
S596	28	B60Y2200/50.cpc.	US-PGPUB; USPAT	OR	OFF	2018/09/17 01:00
S597	118	B60Y2200/90.cpc.	US-PGPUB; USPAT	OR	OFF	2018/09/17 01:00
S598	3668	G01C21/00.cpc.	US-PGPUB; USPAT	OR	OFF	2018/09/17 01:01
S599	270	G06Q2240/00.cpc.	US-PGPUB; USPAT	OR	OFF	2018/09/17 01:01
S600	7177	G07C5/008.cpc.	US-PGPUB; USPAT	OR	OFF	2018/09/17 01:01
S601	648	G08G1/00.cpc.	US-PGPUB; USPAT	OR	OFF	2018/09/17 01:01
S602	44	(maytal and benjamin).in.	US-PGPUB; USPAT	OR	ON	2018/09/17 01:02
S603	396	(binder and yehuda).in.	US-PGPUB; USPAT	OR	ON	2018/09/17 01:02
S604	56	(may and patents).aanm.	US-PGPUB; USPAT	OR	ON	2018/09/17 01:02
S605	48	(may and patents).as.	US-PGPUB; USPAT	OR	ON	2018/09/17 01:02
S606	32994	S602 or S603 or S604 or S605 or S585 or S586 or S587 or S588 or S589 or S590 or S591 or S592 or S593 or S594 or S595 or S596 or S597 or S598 or S599 or S600 or S601	US-PGPUB	ADJ	ON	2018/09/17 01:02
S607	6	S606 and (voice with microphones with human).clm.	US-PGPUB	ADJ	ON	2018/09/17 01:03
S608	191	S606 and (light with diode).clm.	US-PGPUB	ADJ	ON	2018/09/17 01:03
S609	2	S607 and (light with diode).clm.	US-PGPUB	ADJ	ON	2018/09/17 01:04

S610	15	(US-20140215491-$ or US-20100071053-$ or US-20070021847-$ or US-20110153149-$ or US-20090138136-$ or US-20060111825-$ or US-20080100428-$ or US-20070198144-$ or US-20030009271-$ or US-20100211258-$ or US-20100030421-$ or US-20150046582-$ or US-20090089065-$ or US-20080307075-$ or US-20070283005-$).did.	US-PGPUB; USPAT	OR	OFF	2018/09/20 16:51
S611	53	(US-20130201316-$ or US-20100030421-$ or US-20120303216-$ or US-20140188343-$ or US-20140236384-$ or US-20070076593-$ or US-20100211258-$ or US-20080100428-$ or US-20060111825-$ or US-20100148940-$ or US-20100201516-$ or US-20110035491-$ or US-20150046582-$ or US-20160062330-$ or US-20060217840-$ or US-20090198380-$ or US-20150295788-$ or US-20160344745-$ or US-20120253480-$ or US-20070283005-$ or US-20100071053-$ or US-20130091254-$ or US-20140286348-$ or US-20130091279-$ or US-20030105389-$ or US-20130139440-$).did. or (US-20130308581-$ or US-20110118888-$ or US-20120079149-$ or US-20080031139-$ or US-20080068156-$ or US-20080307075-$ or US-20170111158-$ or US-20090224906-$ or US-20170078400-$ or US-20110153149-$ or US-20110032952-$ or US-20090138136-$ or US-20030009271-$ or US-20070198144-$ or US-20070021847-$ or US-20110055292-$ or US-20070225873-$ or US-20140215491-$ or US-20090089065-$).did. or (US-8140658-$ or US-7844687-$ or US-7797367-$ or US-7020701-$ or US-6859831-$ or US-6832251-$ or US-6826607-$ or US-6735630-$).did.	US-PGPUB; USPAT	OR	OFF	2018/09/20 16:52
S612	44	(US-20130201316-$ or US-20100030421-$ or US-20120303216-$ or US-20140188343-$ or US-20140236384-$ or US-20070076593-$ or US-20100211258-$ or US-20080100428-$ or US-20060111825-$ or US-20100148940-$ or US-20100201516-$ or US-20110035491-$ or US-20150046582-$ or US-20160062330-$ or US-20060217840-$ or US-20090198380-$ or US-20150295788-$ or US-20120253480-$ or US-20070283005-$ or US-20100071053-$ or US-20130091254-$ or US-20140286348-$ or US-20130091279-$ or US-20030105389-$ or US-20130139440-$ or US-20130308581-$).did. or (US-20110118888-$ or US-20080031139-$ or US-20080068156-$ or US-20080307075-$ or US-20170111158-$ or US-20090224906-$ or US-20090089065-$ or US-20170272316-$ or US-20080077425-$ or US-20040267385-$).did. or (US-	US-PGPUB; USPAT	OR	OFF	2018/09/20 16:52

		8140658-$ or US-7844687-$ or US-7797367-$ or US-7020701-$ or US-6859831-$ or US-6832251-$ or US-6826607-$ or US-6735630-$).did.				
S613	7	(US-20160062330-$ or US-20070283005-$ or US-20100071053-$ or US-20130091279-$ or US-20080307075-$ or US-20090089065-$ or US-20170272316-$).did.	US-PGPUB; USPAT	OR	OFF	2018/09/20 16:53
S614	0	"15992221"	US-PGPUB; USPAT	OR	OFF	2018/09/20 16:57
S615	58	(US-20130201316-$ or US-20100030421-$ or US-20120303216-$ or US-20140188343-$ or US-20140236384-$ or US-20070076593-$ or US-20100211258-$ or US-20080100428-$ or US-20060111825-$ or US-20100148940-$ or US-20100201516-$ or US-20110035491-$ or US-20150046582-$ or US-20160062330-$ or US-20060217840-$ or US-20090198380-$ or US-20150295788-$ or US-20120253480-$ or US-20070283005-$ or US-20100071053-$ or US-20130091254-$ or US-20140286348-$ or US-20130091279-$ or US-20030105389-$ or US-20130139440-$ or US-20130308581-$).did. or (US-20110118888-$ or US-20080031139-$ or US-20080068156-$ or US-20080307075-$ or US-20170111158-$ or US-20090224906-$ or US-20090089065-$ or US-20170272316-$ or US-20080077425-$ or US-20040267385-$ or US-20180124181-$ or US-20050216302-$ or US-20180253069-$ or US-20080215391-$ or US-20030009271-$ or US-20140215491-$ or US-20110153149-$ or US-20090138136-$ or US-20070198144-$ or US-20070021847-$ or US-20160344745-$ or US-20110055292-$ or US-20110032952-$ or US-20070225873-$).did. or (US-8140658-$ or US-7844687-$ or US-7797367-$ or US-7020701-$ or US-6859831-$ or US-6832251-$ or US-6826607-$ or US-6735630-$).did.	US-PGPUB; USPAT	OR	OFF	2018/09/20 21:30
S616	13	S615 and appliance	US-PGPUB; USPAT	OR	OFF	2018/09/20 21:30
S617	6	S616 and (alternating or AC)	US-PGPUB; USPAT	OR	OFF	2018/09/20 21:30
S618	11	(US-20160062330-$ or US-20070283005-$ or US-20100071053-$ or US-20130091279-$ or US-20080307075-$ or US-20090089065-$ or US-20170272316-$ or US-20040267385-$ or US-20130139440-$ or US-20180253069-$ or US-20080215391-$).did.	US-PGPUB	OR	OFF	2018/09/20 21:33
S622	58	S615 or S618	US-PGPUB; USPAT	OR	OFF	2018/09/20 21:33

S623	25724	smart with appliance	US-PGPUB; USPAT	OR	OFF	2018/09/20 21:34
S624	40382	smart with appliance	US-PGPUB; USPAT	OR	ON	2018/09/20 21:34
S625	1316	S624 and (kitchen and food)	US-PGPUB; USPAT	OR	ON	2018/09/20 21:35
S626	997	S624 and (kitchen and cook$4 and food)	US-PGPUB; USPAT	OR	ON	2018/09/20 21:35
S627	676	S625 and (alternating or AC)	US-PGPUB; USPAT	OR	ON	2018/09/20 21:35
S628	652	S627 and current	US-PGPUB; USPAT	OR	ON	2018/09/20 21:36
S629	356	S628 and antenna	US-PGPUB; USPAT	OR	ON	2018/09/20 21:36
S630	351	S629 and (relay or switch)	US-PGPUB; USPAT	OR	ON	2018/09/20 21:36
S631	23	S630 and latch	US-PGPUB; USPAT	OR	ON	2018/09/20 21:36
S632	23	S631 and wireless	US-PGPUB; USPAT	OR	ON	2018/09/20 21:36
S633	468	S627 and (current with sensor)	US-PGPUB; USPAT	OR	ON	2018/09/20 21:37
S634	117	S633 and actuator	US-PGPUB; USPAT	OR	ON	2018/09/20 21:37
S635	12	S632 and actuator	US-PGPUB; USPAT	OR	ON	2018/09/20 21:37
S636	1	"9717949".pn.	US-PGPUB; USPAT	OR	ON	2018/09/20 21:42
S637	7	"20060166737"	US-PGPUB; USPAT	OR	ON	2018/09/20 21:42
S638	1	"20140072278"	US-PGPUB; USPAT	OR	ON	2018/09/20 21:42
S639	4	"12206766"	US-PGPUB; USPAT	OR	ON	2018/09/20 21:47
S640	4	"11930299"	US-PGPUB; USPAT	OR	ON	2018/09/20 21:48
S641	356	S629 and wireless	US-PGPUB; USPAT	OR	ON	2018/09/20 22:53

S642	351	S641 and sensor	US-PGPUB; USPAT	OR	ON	2018/09/20 22:53
S643	297	S642 and relay	US-PGPUB; USPAT	OR	ON	2018/09/20 22:54
S644	6	S618 and appliance	US-PGPUB; USPAT	OR	OFF	2018/09/20 22:57
S645	59	(US-20130201316-$ or US-20100030421-$ or US-20120303216-$ or US-20140188343-$ or US-20140236384-$ or US-20070076593-$ or US-20100211258-$ or US-20080100428-$ or US-20060111825-$ or US-20100148940-$ or US-20100201516-$ or US-20110035491-$ or US-20150046582-$ or US-20160062330-$ or US-20060217840-$ or US-20090198380-$ or US-20150295788-$ or US-20120253480-$ or US-20070283005-$ or US-20100071053-$ or US-20130091254-$ or US-20140286348-$ or US-20130091279-$ or US-20030105389-$ or US-20130139440-$ or US-20130308581-$).did. or (US-20110118888-$ or US-20080031139-$ or US-20080068156-$ or US-20080307075-$ or US-20170111158-$ or US-20090224906-$ or US-20090089065-$ or US-20170272316-$ or US-20080077425-$ or US-20040267385-$ or US-20180124181-$ or US-20050216302-$ or US-20180253069-$ or US-20080215391-$ or US-20030009271-$ or US-20140215491-$ or US-20110153149-$ or US-20090138136-$ or US-20070198144-$ or US-20070021847-$ or US-20160344745-$ or US-20110055292-$ or US-20110032952-$ or US-20070225873-$ or US-20160218884-$).did. or (US-8140658-$ or US-7844687-$ or US-7797367-$ or US-7020701-$ or US-6859831-$ or US-6832251-$ or US-6826607-$ or US-6735630-$).did.	US-PGPUB; USPAT	OR	OFF	2018/09/20 23:15
S646	3	S645 and refrigerator	US-PGPUB; USPAT	OR	OFF	2018/09/20 23:15
S647	3	S645 and (stove or oven)	US-PGPUB; USPAT	OR	OFF	2018/09/20 23:15
S648	2	"20130041519"	US-PGPUB; USPAT	OR	OFF	2018/09/21 00:08
S649	80	S643 and solenoid	US-PGPUB; USPAT	OR	OFF	2018/09/21 00:08
S650	80	S643 and (solenoid or SSR or (solid adj state adj relay) or (reed NEAR4 relay) or (relay NEAR5 (solidstate or solid$1state)) or (relay NEAR5 semiconductor))	US-PGPUB; USPAT	OR	OFF	2018/09/21 00:10
S652	6	(US-20170272316-$ or US-20180253069-	US-	OR	OFF	2018/09/21

		$ or US-20160218884-$ or US-20110251807-$ or US-20120228952-$ or US-20140170275-$).did.	PGPUB			00:29
S653	0	S652 and (relay with latching)	US-PGPUB; USPAT	OR	OFF	2018/09/21 00:30
S654	1	S652 and (relay with solenoid)	US-PGPUB; USPAT	OR	OFF	2018/09/21 00:30
S655	4	S652 and (relay)	US-PGPUB; USPAT	OR	OFF	2018/09/21 00:30
S656	9637	relay with (latch$4)	US-PGPUB; USPAT	OR	OFF	2018/09/21 00:34
S657	55096	(switch or relay) with (latch$4)	US-PGPUB; USPAT	OR	OFF	2018/09/21 00:34
S658	650	S657 and ((appliance) and (food or cook$4 or kitchen))	US-PGPUB; USPAT	OR	OFF	2018/09/21 00:34
S659	264	S658 and solenoid	US-PGPUB; USPAT	OR	OFF	2018/09/21 00:34
S660	103	S659 and wireless	US-PGPUB; USPAT	OR	OFF	2018/09/21 00:35
S661	1	"4521183".pn.	US-PGPUB; USPAT	OR	OFF	2018/09/21 00:44
S662	1	"6663009".pn.	US-PGPUB; USPAT	OR	OFF	2018/09/21 00:48
S663	1	"5167216".pn.	US-PGPUB; USPAT	OR	OFF	2018/09/21 00:49
S664	2	"20050098169"	US-PGPUB; USPAT	OR	OFF	2018/09/21 00:49
S665	2	"20130041519"	US-PGPUB; USPAT	OR	OFF	2018/09/21 00:57
S666	2	"20130041519"	US-PGPUB; USPAT	OR	OFF	2018/09/21 00:57
S667	1	"7657763".pn.	US-PGPUB; USPAT	OR	OFF	2018/09/21 00:58
S668	63444	((appliance) and (food or cook$4 or kitchen))	US-PGPUB; USPAT	OR	OFF	2018/09/21 01:00
S669	3220	S668 and solenoid	US-PGPUB; USPAT	OR	OFF	2018/09/21 01:00
S670	1181	S669 and wireless	US-PGPUB; USPAT	OR	OFF	2018/09/21 01:00

S671	95717	((appliance) and (food or cook$4 or kitchen))	US-PGPUB; USPAT	OR	ON	2018/09/21 01:00
S672	4701	S671 and solenoid	US-PGPUB; USPAT	OR	ON	2018/09/21 01:01
S673	1692	S672 and wireless	US-PGPUB; USPAT	OR	ON	2018/09/21 01:01
S674	244	S673 and (switch or relay or mechanism) with (latch$4)	US-PGPUB; USPAT	OR	ON	2018/09/21 01:01
S675	4	"13650100"	US-PGPUB; USPAT	OR	OFF	2018/09/21 01:08
S676	2	"20080029081"	US-PGPUB; USPAT	OR	OFF	2018/09/21 01:10
S677	6	("4756839" | "4813487" | "4979572" | "5351760" | "5992531" | "7303024").PN.	US-PGPUB; USPAT	OR	OFF	2018/09/21 01:11
S678	2	"20110170377" or "4756336".pn.	US-PGPUB; USPAT	OR	OFF	2018/09/21 01:59
S679	2	(US-20160218884-$ or US-20120325197-$).did.	US-PGPUB	OR	OFF	2018/09/21 03:17
S680	1	S679 and (wireless with A12)	US-PGPUB; USPAT	OR	OFF	2018/09/21 03:17
S681	0	S679 and (AC with A12)	US-PGPUB; USPAT	OR	OFF	2018/09/21 03:18
S682	2	S679 and (AC)	US-PGPUB; USPAT	OR	OFF	2018/09/21 03:18
S683	1	S679 and (AC with appliance)	US-PGPUB; USPAT	OR	OFF	2018/09/21 03:18
S684	9	(US-20170272316-$ or US-20180253069-$ or US-20160218884-$ or US-20110251807-$ or US-20120228952-$ or US-20140170275-$ or US-20150226439-$ or US-20120325197-$ or US-20090183729-$).did.	US-PGPUB	OR	OFF	2018/09/21 03:21
S685	1	S684 and (AC with appliance)	US-PGPUB; USPAT	OR	OFF	2018/09/21 03:21
S686	7	S684 and (AC)	US-PGPUB; USPAT	OR	OFF	2018/09/21 03:21
S687	2	S684 and (alternating)	US-PGPUB; USPAT	OR	OFF	2018/09/21 03:24
S688	5833	(whirlpool and corporation).as.	US-PGPUB; USPAT	OR	OFF	2018/09/21 03:27
S689	2331	(whirlpool and corporation).aanm.	US-	OR	OFF	2018/09/21

			PGPUB; USPAT			03:27
S690	6250	S688 or S689	US-PGPUB; USPAT	OR	OFF	2018/09/21 03:27
S691	86	S690 and (solenoid and wireless)	US-PGPUB; USPAT	OR	OFF	2018/09/21 03:27
S692	75	S690 and (solenoid and appliance and wireless)	US-PGPUB; USPAT	OR	OFF	2018/09/21 03:27
S693	70	S690 and (solenoid and appliance and food and wireless)	US-PGPUB; USPAT	OR	OFF	2018/09/21 03:28
S694	36	S690 and (solenoid and appliance and antenna and food and wireless)	US-PGPUB; USPAT	OR	OFF	2018/09/21 03:28
S695	9	S684 and ((electric or electricity or current or energy or power) with (bill$4 or consumption or us$4 or consum$4 or measur$4))	US-PGPUB; USPAT	OR	ON	2018/09/21 03:32
S696	8	S684 and (alternating or AC)	US-PGPUB; USPAT	OR	ON	2018/09/21 03:32
S697	2	S684 and ((alternating or AC) with appliance)	US-PGPUB; USPAT	OR	ON	2018/09/21 03:32
S698	112	ebrom.in.	US-PGPUB; USPAT	OR	ON	2018/09/21 03:40
S699	11	S698 and (appliance with (AC or alternating))	US-PGPUB; USPAT	OR	ON	2018/09/21 03:40
S700	7	S684 and (sensor with (electric or electricity or current or energy or power) with (bill$4 or consumption or us$4 or consum$4 or measur$4))	US-PGPUB; USPAT	OR	ON	2018/09/21 04:44
S701	5775	709/218.ccls.	US-PGPUB; USPAT	OR	ON	2018/09/21 05:25
S702	16552	H04L67/12.cpc.	US-PGPUB; USPAT	OR	ON	2018/09/21 05:25
S703	102574	B60K 31/00.cpc. B60K 31/18.cpc. B60Y2200/11.cpc. B60Y2200/12.cpc. B60Y2200/126.cpc. B60Y2200/13.cpc. B60Y2200/30.cpc. B60Y2200/40.cpc. B60Y2200/50.cpc. B60Y2200/90.cpc. G01C 21/00.cpc. G06Q2240/00.cpc. G07C 5/008.cpc. G08G 1/00.cpc.	US-PGPUB; USPAT	OR	ON	2018/09/21 05:26
S704	45	(maytal and benjamin).in.	US-PGPUB; USPAT	OR	ON	2018/09/21 05:27
S705	397	(binder and yehuda).in.	US-PGPUB; USPAT	OR	ON	2018/09/21 05:27
S706	57	(may and patents).aanm.	US-PGPUB;	OR	ON	2018/09/21 05:27

			USPAT			
S707	48	(may and patents).as.	US-PGPUB; USPAT	OR	ON	2018/09/21 05:27
S708	437	S704 S705 S706 S707	US-PGPUB; USPAT	OR	ON	2018/09/21 05:27
S709	123485	S701 or S702 or S703 or S708	US-PGPUB; USPAT	OR	ON	2018/09/21 05:28
S710	2	S709 and (relay with solenoid with reed).clm.	US-PGPUB; USPAT	OR	ON	2018/09/21 05:28
S712	1	"15992221"	US-PGPUB; USPAT	OR	ON	2019/01/11 13:47
S713	4	"11930299"	US-PGPUB; USPAT	OR	ON	2019/01/11 13:49
S714	1	(US-20080130520-$).did.	US-PGPUB	OR	ON	2019/01/11 13:49
S715	3	"12256555"	US-PGPUB	OR	ON	2019/01/11 14:11
S716	1	(US-20130235197-$).did.	US-PGPUB	OR	ON	2019/01/11 14:12

EAST Search History (Interference)

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Doc code: IDS
Doc description: Information Disclosure Statement (IDS) Filed

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(Not for submission under 37 CFR 1.99)

Application Number	15992221
Filing Date	2018-05-30
First Named Inventor	Yehuda Binder
Art Unit	2456
Examiner Name	KHAN, HASSAN ABDUR-RAHMAN
Attorney Docket Number	BINDER-014-US7

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	1	20040267385	A1	2004-12-30	Ronald R. Lingemann	
	2	20180253069	A1	2018-09-06	Reza Raji	
	3	20080215391	A1	2008-09-04	Kevin J. Dowling	
	4	20160218884	A1	2016-07-28	Matthew P. EBROM	
	5	20110251807	A1	2011-10-13	Patrick A. Rada	

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	8	20150226439	A1	2015-08-13	Conrad S. Mikulec	
	9	20120325197	A1	2012-12-27	Ferdinand Villegas Legaspi	
	10	20090183729	A1	2009-07-23	Sydney Barkhouse	
	11	20070220907	A1	2007-09-27	Gregory A. Ehlers	
	12	20120093132	A1	2012-04-19	Ahmadreza (Reza) Rofougaran	

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Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]
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Examiner Signature	/HASSAN A KHAN/	Date Considered	01/11/2019

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CERTIFICATION STATEMENT

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☒ A certification statement is not submitted herewith.

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Signature	/Yehuda Binder/	Date (YYYY-MM-DD)	2018-11-19
Name/Print	Yehuda Binder	Registration Number	73612

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7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

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First Named Inventor	Yehuda Binder
Art Unit	2456
Examiner Name	KHAN, HASSAN ABDUR-RAHMAN
Attorney Docket Number	BINDER-014-US7

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Signature	/Yehuda Binder/	Date (YYYY-MM-DD)	2018-11-19
Name/Print	Yehuda Binder	Registration Number	73612

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5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.

6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.

9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Electronic Acknowledgement Receipt

EFS ID:	34347160
Application Number:	15992221
International Application Number:	
Confirmation Number:	8906
Title of Invention:	SYSTEM AND METHOD FOR SERVER BASED CONTROL
First Named Inventor/Applicant Name:	Yehuda BINDER
Customer Number:	131926
Filer:	Yehuda Binder
Filer Authorized By:	
Attorney Docket Number:	BINDER-014-US7
Receipt Date:	19-NOV-2018
Filing Date:	30-MAY-2018
Time Stamp:	14:08:51
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Information Disclosure Statement (IDS) Form (SB08)	IDS8.pdf	1034998 7e6b921d6ffc6ebbb7c649efb9a9f84a2d28b3ae	no	5

Warnings:

Information:	
Total Files Size (in bytes):	1034998

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/992,221	05/30/2018	Yehuda BINDER	BINDER-014-US7	8906

131926 7590 11/08/2018

May Patents Ltd. c/o Dorit Shem-Tov
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Ramat-Gan, 5217102
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EXAMINER	
KHAN, HASSAN ABDUR-RAHMAN	

ART UNIT	PAPER NUMBER
2456	

MAIL DATE	DELIVERY MODE
11/08/2018	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Technology Center Petition Count Sheet	Application No. 15/992,221	Applicant(s) BINDER et al.	

Petition Code	Petition Type
☐ 601	Petition to Make Special, Age or Health (37 CFR 1.102, MPEP § 708.02)
☐ 604	Petition to Make Special, Accelerated Examination (37 CFR 1.102, MPEP § 708.02)
☐ 607	Petition to Make Special, For Reasons not Provided in 601-606 and 639-640 (37 CFR 1.102, MPEP § 708.02)
☐ 608	Petition to Reopen After a Board Decision (37 CFR 1.198)
☑ 609	Petition for Review of Final Restriction Requirement (37 CFR 1.144)
☐ 610	Petition Invoking Authority of Commissioner under 37 CFR 1.181 Not Specified in Codes 611-617
☐ 611	Petition Relating to Prematureness of Final Rejection (37 CFR 1.181, MPEP § 706.07)
☐ 612	Petition Relating to Refusal to Enter an Amendment (37 CFR 1.181 and 1.127, MPEP § 714.09)
☐ 613	Petition Relating to Withdraw of holding of Abandonment (37 CFR 1.137, MPEP § 711.03)
☐ 614	Petition Relating to Withdraw of holding of Abandonment (37 CFR 1.137, MPEP § 7.14.19)
☐ 615	Petition Relating to Formal Sufficiency / Propriety of Affidavits (37 CFR 1.131, 1.132, 1.608, MPEP § 608.04(C)
☐ 617	Petition Relating to Refusal to Enter an Amendment (37 CFR 1.312)
☐ 620	Petition for Extension of Time (37 CFR 1.136 (b))
☐ 622	Petition Concerning Appeal Application before Transfer of Jurisdiction to Board of Appeals (MPEP § 1206)
☐ 623	Petition for Second or Subsequent Suspension of Action (37 CFR 1.103, MPEP § 709)
☐ 634	Petition to Correct Inventorship in a Patent not in Interference (37 CFR 1.324, MPEP § 1481)
☐ 635	Petition to Correct Inventorship in a Patent Application (37 CFR 1.48)
☐ 636	Petition to Change Inventorship in a Patent (37 CFR 1.324)
☐ 637	Petition to Withdraw from Issue, before Payment of an Issue Fee (37 CFR 1.313(a))
☐ 639	Petition for Make Special Prospective Manufacture (37 CFR 1.102, MPEP § 708.02)
☐ 646	Petition for Make Special Accelerated Examination
☐ 690	Petition Related Color Drawings of Photographs
☐ 699	Petition for Matters Before Technology Center

Information Required for OPESS Processing

☑ GRANTED ☐ GRANTED-IN-PART ☐ DENIED ☐ DISMISSED

☐ Mail Decision and Enter Decision in Petition Database/PALM
☐ Copy Decision, Send to Scanning
☐ Fees Need to be Charged
☐ _____

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May Patents Ltd. c/o Dorit Shem-Tov
P.O.B 7230
Ramat-Gan, 5217102
Israel

In re Application of: BINDER, ET AL.
Application No. **15/992,221**
Filed: May 30th, 2018
Atty Docket No. BINDER-014-US7
Title of Invention: SYSTEM AND METHOD FOR SERVER BASED CONTROL

DECISION ON PETITION UNDER 37 C.F.R. § 1.144 TO WITHDRAW RESTRICTION REQUIRMENT

This is a decision on petition filed under 37 C.F.R. §1.181 on **October 2, 2018** regarding a restriction requirement made in an office action mailed August 28, 2018, referred here after as "the restriction".

This petition is **GRANTED**.

RELEVANT PROSECUTION HISTORY

August 28, 2018	A restriction requirement was mailed. The restriction identified 17 groups as subcombinations usable together and a plurality of species.
September 13, 2018	Applicant provisionally elected group IV with traverse.
September 24, 2018	The restriction requirement was maintained in a non-final Office action.
October 2, 2018	A petition under 37 CFR 1.181 was filed requesting the withdrawal of the restriction requirement.

RULES AND REGULATIONS

37 C.F.R. § 1.141 states:

> (a) Two or more independent and distinct inventions may not be claimed in one national application, except that more than one species of an invention, not to exceed a reasonable number, may be specifically claimed in different claims in one national application, provided the application also includes an allowable claim generic to all the claimed

species and all the claims to species in excess of one are written in dependent form (§ **1.75**) or otherwise include all the limitations of the generic claim.

(b) Where claims to all three categories, product, process of making, and process of use, are included in a national application, a three way requirement for restriction can only be made where the process of making is distinct from the product. If the process of making and the product are not distinct, the process of using may be joined with the claims directed to the product and the process of making the product even though a showing of distinctness between the product and process of using the product can be made.

37 C.F.R. § 1.143 states:

If the applicant disagrees with the requirement for restriction, he may request reconsideration and withdrawal or modification of the requirement, giving the reasons therefor. (See § **1.111**). In requesting reconsideration the applicant must indicate a provisional election of one invention for prosecution, which invention shall be the one elected in the event the requirement becomes final. The requirement for restriction will be reconsidered on such a request. If the requirement is repeated and made final, the examiner will at the same time act on the claims to the invention elected.

37 C.F.R. § 1.144 states:

After a final requirement for restriction, the applicant, in addition to making any reply due on the remainder of the action, may petition the Commissioner to review the requirement ... A petition will not be considered if reconsideration of the requirement was not requested (see § **1.181**).

37 C.F.R. § 1.145 states:

If, after an office action on an application, the applicant presents claims directed to an invention distinct from and independent of the invention previously claimed, the applicant will be required to restrict the claims to the invention previously claimed if the amendment is entered, subject to reconsideration and review as provided in § § **1.143 and 1.144**.

37 C.F.R. § 1.181 states:

(a) Petition may be taken to the Commissioner:

(1) From any action or requirement of any examiner in the ex parte prosecution of an application, or in ex parte or inter partes prosecution of a reexamination proceeding which is not subject to appeal to the Board of Patent Appeals and Interferences or to the court;

(2) In cases in which a statute or the rules specify that the matter is to be determined directly by or reviewed by the Commissioner; and

(3) To invoke the supervisory authority of the Commissioner in appropriate circumstances. For petitions in interferences, see § **1.644**.

(b) Any such petition must contain a statement of the facts involved and the point or points to be reviewed and the action requested. Briefs or memoranda, if any, in support thereof should accompany or be embodied in the petition; and where facts are to be proven, the proof in the form of affidavits or declarations (and exhibits, if any) must accompany the petition.
(c) When a petition is taken from an action or requirement of an examiner in the ex parte prosecution of an application, or in the ex parte or inter partes prosecution of a reexamination proceeding, it may be required that there have been a proper request for reconsideration **(§ 1.111)** and a repeated action by the examiner. The examiner may be directed by the Commissioner to furnish a written statement, within a specified time, setting forth the reasons for his or her decision upon the matters averred in the petition, supplying a copy to the petitioner.

MPEP § 803 states:

Under the statute an application may properly be required to be restricted to one of two or more claimed inventions only if they are able to support separate patents and they are either independent (**MPEP § 806.04 - § 806.04(i)**) or distinct (**MPEP § 806.05 - § 806.05(i)**).
If the search and examination of an entire application can be made without serious burden, the examiner must examine it on the merits, even though it includes claims to independent or distinct inventions.

CRITERIA FOR RESTRICTION BETWEEN PATENTABLY DISTINCT INVENTIONS
There are two criteria for a proper requirement for restriction between patentably distinct inventions:
(A) The inventions must be independent (see **MPEP § 802.01, § 806.04, § 808.01**) or distinct as claimed (see **MPEP § 806.05 - § 806.05(i)**); and
(B) There must be a serious burden on the examiner if restriction is not required (see **MPEP § 803.02, § 806.04(a) - § 806.04(i), § 808.01(a), and § 808.02**).... For purposes of the initial requirement, a serious burden on the examiner may be *prima facie* shown if the examiner shows by appropriate explanation of separate classification, or separate status in the art, or a different field of search as defined in **MPEP § 808.02**....

MPEP § 808.01 states:

The particular reasons relied on by the examiner for holding that the inventions as claimed are either independent or distinct should be concisely stated. A mere statement of conclusion is inadequate. The reasons upon which the conclusion is based should be given.

MPEP § 821.01 states:

> Where the initial requirement is traversed, it should be reconsidered. If, upon reconsideration, the examiner is still of the opinion that restriction is proper, it should be repeated and made final in the next Office action. (See MPEP § 803.01.) In doing so, the examiner should reply to the reasons or arguments advanced by applicant in the traverse. Form paragraph 8.25 should be used to make a restriction requirement final.

MPEP § 806.05(d): Subcombinations Usable Together

> Two or more claimed subcombinations, disclosed as usable together in a single combination, and which can be shown to be separately usable, are usually restrictable when the subcombinations do not overlap in scope and are not obvious variants.
>
> To support a restriction requirement where applicant separately claims plural subcombinations usable together in a single combination and claims a combination that requires the particulars of at least one of said subcombinations, both two-way distinctness and reasons for insisting on restriction are necessary. Each subcombination is distinct from the combination as claimed if:

- (A) the combination does not require the particulars of the subcombination as claimed for patentability (e.g., to show novelty and unobviousness), and
- (B) the subcombination can be shown to have utility either by itself or in another materially different combination.

> Furthermore, restriction is only proper when there would be a serious burden if restriction were not required, as evidenced by separate classification, status, or field of search.

DECISION

37 C.F.R. § 1.181(c) requires that an action by an examiner, to be properly petitionable, must be followed by a request for reconsideration, and a repeated action by the examiner. 37 C.F.R. § 1.144 states that the applicant may petition the Commissioner after a final requirement for the restriction has been made.

In the above-identified application, applicant filed a requests for reconsideration, on September 13, 2018 in accordance with 37 C.F.R. § 1.143. Although the restriction was never made final in accordance with MPEP § 821.01, the initial restriction requirement was maintained in in the Non-final Office Action September 24, 2018. To expedite prosecution of this application, these Office communications, which maintained the restriction requirement, are being treated as a Final restriction requirement.

The issue presented in the petition is whether the restriction is proper under the current regulations and practice under 37 C.F.R 141.

MPEP § 803 sets forth two criteria for a proper restriction requirement between patentably distinct inventions: (A) the inventions must be independent or distinct as claimed and (B) there must be a serious burden on the examiner.

The restriction established distinctness under the subcombination usable together category. The restriction states: "Subcombinations I – XVII have separate utilities such as measuring current, measuring power, implementing wireline or a satellite network etc."

Under MPEP § 806.05(d), the distinctness between subcombinations usable together can be estaiblished if: (1) the subcombinations as claimed can be shown to be separately usable, (2) the subcombinations as claimed do not overlap in scope, and (3) the subcombinations as claimed are not obvious variants of one another.

The restriction does not explain why the subcombinations do not overlap in scope or why they are not obvious variants. The restriction does not explain how the subcombinations have separate utilities. Merely 4 separate utilities are mentioned in the restriction while it contains 17 groups.

Furthermore, the examiner has not shown a serious burden would exist if restriction was not required even though the examiner provided separate classifications for the 17 groups. For example, claims 20-31 that are related to wireless network further define the type of network. Many of the claims simply recite well-known industry standards such as IEEE, WiMax, Zigbee, etc.

Finally, applicant elected group IV with traverse and requested reconsideration. MPEP 821.01 states, "where the initial requirement is traversed, the examiner should reconsider it … In doing so, the examiner should reply to the reasons or arguments advanced by applicant in the traverse. Form paragraph 8.25 should be used to make a restriction requirement final." However, the examiner did not respond to the arguments. The examiner merely stated the election with traverse is acknowledged.

For the above-mentioned reasons the petition to withdraw the restriction is hereby granted.

The restriction requirement is hereby **WITHDRAWN**.

The application will be forwarded to the examiner for consideration on the merits of claims 1-64.

Any inquiry regarding this decision may be directed to Chris Grant, Quality Assurance Specialist whose telephone number is (517) 272-7294.

Nancy Le
Director of Technology Center 2400
Networking, Multiplexing, Cable and Security

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

ATTY.'S DOCKET: BINDER-014-US7

In re Application of:	)	Confirmation No. 8906
	)	
Yehuda BINDER	)	Art Unit: 2456
	)	
Appln. No.: 15/992,221	)	Examiner: Khan, Hassan A.
	)	
Filed: May 30, 2018	)	Washington, D.C.
	)	
For: System and method for Server-based control	)	October 3, 2018
	)	

AMENDMENT:

Honorable Commissioner for Patents
U.S. Patent and Trademark Office
Randolph Building, Mail Stop Amendments
401 Dulany Street
Alexandria, VA 22314

Sir:

In response to the examiner's action dated September 24, 2018 (hereinafter the "**Action**"), kindly amend the above-identified application as follows:

Amendments to the Claims appear in the Listing of Claims that begins on page 2 of this paper, and

Remarks / Comments begin on page 13 of this paper.

Amendments to the claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently amended) An Alternating-Current (AC) ~~AC~~-powered appliance associated with food storage, handling, or preparation for use with a wireless network, the appliance comprising:

an AC connector for connecting the appliance to an AC power source;

a current sensor coupled to the AC connector for measuring an AC current consumed by the appliance;

an antenna for communication over the wireless network;

a wireless transceiver coupled to the antenna for transmitting digital data to, and for receiving digital data from, the wireless network; and

a single enclosure housing the current sensor, the antenna, and the wireless transceiver,

wherein the appliance is controlled or activated in response to digital data received from the wireless network, and

wherein the current sensor is coupled to the wireless transceiver for transmitting digital data in response to the measured AC current to the wireless network.

2. (Withdrawn) The appliance according to claim 1, wherein the primary function of the appliance is heating food.

3. (Withdrawn) The appliance according to claim 2, wherein the appliance comprises a microwave oven, an electric mixer, a stove, an oven, or an induction cooker.

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4. (Withdrawn) The appliance according to claim 1, wherein the primary function of the appliance is cooling food.

5. (Withdrawn) The appliance according to claim 4, wherein the appliance comprises a refrigerator, a freezer, or an iced-tea maker.

6. (Withdrawn) The appliance according to claim 1, wherein the appliance comprises a dishwasher, a food blender, a beverage maker, or a coffeemaker.

7. (Original) The appliance according to claim 1, further comprising in the single enclosure an electrically actuated switch connected to switch electric power to at least part of the appliance, wherein the electrically actuated switch is coupled to the wireless transceiver for being activated in response to digital data received from the wireless network.

8. (Withdrawn) The appliance according to claim 7, wherein the electrically actuated switch is 'normally open' type, 'normally closed' type, or a changeover switch, wherein the electrically actuated switch is 'make-before-break' or 'break-before-make' type, or wherein the electrically actuated switch have two or more poles or two or more throws, and contacts of the electrically actuated switch are arranged as a Single-Pole-Double-Throw (SPDT), Double-Pole-Double-Throw (DPDT), Double-Pole-Single-Throw (DPST), or Single-Pole-Changeover (SPCO).

9. (Original) The appliance according to claim 7, wherein the electrically actuated switch is a latching or a non-latching type relay.

10. (Original) The appliance according to claim 9, wherein the relay is a solenoid-based electromagnetic relay that is a reed relay, wherein the relay is solid-state or semiconductor based, or wherein the relay is a Solid State Relay (SSR).

11. (Withdrawn) The appliance according to claim 7, wherein the electrically actuated switch is based on an electrical circuit

that comprises an open collector transistor, an open drain transistor, a thyristor, a TRIAC, or an opto-isolator.

12. (Withdrawn) The appliance according to claim 1, wherein the current sensor comprises an ampermeter, galvanometer, or a hot-wire ampermeter.

13. (Withdrawn) The appliance according to claim 1, wherein the current sensor comprises a current clamp, a current probe, a current transformer, or uses a 'Hall effect'.

14. (Withdrawn) The appliance according to claim 1, wherein the current sensor is a non-contact or a non-conductive current meter.

15. (Withdrawn) The appliance according to claim 1, further comprising in the single enclosure a wattmeter connected to the AC connector for measuring the magnitude of the active AC power or an electrical energy consumed by the appliance.

16. (Withdrawn) The appliance according to claim 15, wherein the wattmeter comprises single or multi-phase AC power or energy meter.

17. (Withdrawn) The appliance according to claim 15, wherein the wattmeter comprises a bolometer, or wherein the wattmeter accumulates or averages readings.

18. (Withdrawn) The appliance according to claim 15, wherein the wattmeter comprises the current sensor, or wherein the wattmeter is based on multiplying a measured voltage and the current measured by the current sensor.

19. (Withdrawn) The appliance according to claim 15, wherein the wattmeter or the current sensor are induction based.

20. (Withdrawn) The appliance according to claim 1, wherein the wireless network is a Wireless Personal Area Network (WPAN), the antenna is a WPAN antenna, and the wireless transceiver is a WPAN modem.

21. (Withdrawn, Currently amended) The appliance according to claim 20, wherein the WPAN is according to, based on, or compatible with, Bluetooth™ or Institute of Electrical and Electronics Engineers (IEEE) ~~IEEE~~ 802.15.1-2005 standards.

22. (Withdrawn) The appliance according to claim 20, wherein the WPAN is according to, based on, or compatible with, Zigbee™, IEEE 802.15.4-2003, or Z-Wave™ standards.

23. (Withdrawn) The appliance according to claim 1, wherein the wireless network is a Wireless Local Area Network (WLAN), the antenna is a WLAN antenna, and the wireless transceiver is a WLAN modem.

24. (Withdrawn) The appliance according to claim 23, wherein the WLAN is according to, based on, or compatible with, IEEE 802.11-2012, IEEE 802.11a, IEEE 802.11b, IEEE 802.11g, IEEE 802.11n, or IEEE 802.11ac.

25. (Withdrawn) The appliance according to claim 1, wherein the wireless network is a wireless broadband network.

26. (Withdrawn) The appliance according to claim 1, wherein the wireless network uses a licensed or unlicensed radio frequency band.

27. (Withdrawn) The appliance according to claim 26, wherein the unlicensed radio frequency band is an Industrial, Scientific and Medical (ISM) radio band.

28. (Withdrawn) The appliance according to claim 1, wherein the wireless network is a satellite network, the antenna is a satellite antenna, and the wireless transceiver is a satellite modem.

29. (Withdrawn) The appliance according to claim 1, wherein the wireless network is a WiMAX network, wherein the antenna is a WiMAX antenna and the wireless transceiver is a WiMAX modem, and wherein the WiMAX network is according to, or based on, or compatible with, IEEE 802.16-2009.

30. (Withdrawn) The appliance according to claim 1, wherein the wireless network is a cellular telephone network, the antenna is a cellular antenna, and the wireless transceiver is a cellular modem.

31. (Withdrawn, Currently amended) The appliance according to claim 30, wherein the cellular telephone network is a ~~Third Generation (3G) network that uses UMTS W-CDMA, UMTS HSPA, UMTS TDD, CDMA2000 1xRTT, CDMA2000 EV-DO, or GSM EDGE-Evolution, or wherein the cellular telephone network is a Fourth Generation (4G) network that uses HSPA+, Mobile WiMAX, LTE, LTE-Advanced, MBWA, or is based on IEEE 802.20-2008.~~ Third Generation (3G) network that uses Universal Mobile Telecommunications System (UMTS), Wideband Code Division Multiple Access (W-CDMA) UMTS, High Speed Packet Access (HSPA), UMTS Time-Division Duplexing (TDD), CDMA2000 1xRTT, Evolution – Data Optimized (EV-DO), or Global System for Mobile communications (GSM), Enhanced Data rates for GSM Evolution (EDGE) EDGE-Evolution, or wherein the cellular telephone network is a Fourth Generation (4G) network that uses Evolved High Speed Packet Access (HSPA+), Mobile Worldwide Interoperability for Microwave Access (WiMAX), Long-Term Evolution (LTE), LTE-Advanced, Mobile Broadband Wireless Access (MBWA), or is based on IEEE 802.20-2008.

32. (Withdrawn) The appliance according to claim 1, further comprising in the single enclosure a first sensor having an output that responds to a physical phenomenon, the first sensor is coupled to the wireless transceiver for transmitting digital data in response to the measured physical phenomenon to the wireless network.

33. (Withdrawn) The appliance according to claim 32, further comprising an electrically actuated switch connected to switch electric power to at least part of the appliance, the switch is

coupled to the first sensor for being activated in response to the physical phenomenon.

34. (Withdrawn) The appliance according to claim 32, wherein the first sensor is a piezoelectric sensor that includes single crystal material or a piezoelectric ceramics and uses a transverse, longitudinal, or shear effect mode of the piezoelectric effect.

35. (Withdrawn) The appliance according to claim 32, further comprising multiple sensors arranged as a directional sensor array operative to estimate the number, magnitude, frequency, Direction-Of-Arrival (DOA), distance, or speed of the physical phenomenon impinging the sensor array.

36. (Withdrawn) The appliance according to claim 32, wherein the first sensor is a thermoelectric sensor that responds to a temperature or to a temperature gradient of an object using conduction, convection, or radiation, and wherein the thermoelectric sensor consists of, or comprises, a Positive Temperature Coefficient (PTC) thermistor, a Negative Temperature Coefficient (NTC) thermistor, a thermocouple, a quartz crystal, or a Resistance Temperature Detector (RTD).

37. (Withdrawn) The appliance according to claim 32, wherein the first sensor consists of, or comprises, a nanosensor, a crystal, or a semiconductor.

38. (Withdrawn) The appliance according to claim 32, wherein the first sensor consists of, or comprises, an eddy-current sensor.

39. (Withdrawn) The appliance according to claim 32, wherein the first sensor consists of, or comprises, an atmospheric or an environmental sensor.

40. (Withdrawn) The appliance according to claim 32, wherein the first sensor consists of, or comprises, a bulk or surface acoustic sensor.

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41. (Withdrawn) The appliance according to claim 32, wherein the first sensor consists of, or comprises, a radiation sensor that responds to radioactivity, nuclear radiation, alpha particles, beta particles, or gamma rays, and is based on gas ionization.

42. (Withdrawn) The appliance according to claim 32, wherein the first sensor consists of, or comprises, a photoelectric sensor that responds to a visible or an invisible light, and wherein the invisible light is infrared, ultraviolet, X-rays, or gamma rays.

43. (Withdrawn) The appliance according to claim 42, wherein the photoelectric sensor is based on the photoelectric or photovoltaic effect, and consists of, or comprises, a semiconductor component that consists of, or comprises, a photodiode, a phototransistor, or a solar cell.

44. (Withdrawn) The appliance according to claim 42, wherein the photoelectric sensor is based on Charge-Coupled Appliance (CCD) or a Complementary Metal-Oxide Semiconductor (CMOS) element.

45. (Withdrawn) The appliance according to claim 32, wherein the first sensor consists of, or comprises, a photosensitive image sensor array comprising multiple photoelectric sensors, for capturing an image and producing electronic image information representing the image, and the appliance further comprising one or more optical lens for focusing the received light and to guide the image, and wherein the image sensor is disposed approximately at an image focal point plane of the one or more optical lens for properly capturing the image.

46. (Withdrawn) The appliance according to claim 45, further comprising an image processor coupled to the image sensor for providing a digital data video signal according to a digital video format, the digital video signal carrying digital data

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video based on the captured images, and wherein the digital video format is based on one out of: TIFF (Tagged Image File Format), RAW format, AVI, DV, MOV, WMV, MP4, DCF (Design Rule for Camera Format), ITU-T H.261, ITU-T H.263, ITU-T H.264, ITU-T CCIR 601, ASF, Exif (Exchangeable Image File Format), and DPOF (Digital Print Order Format) standards.

47. (Withdrawn) The appliance according to claim 32, wherein the first sensor consists of, or comprises, an electrochemical sensor that responds to an object chemical structure, properties, composition, or reactions.

48. (Withdrawn) The appliance according to claim 47, wherein the electrochemical sensor consists of, or comprises, a pH meter or a gas sensor responding to a presence of radon, hydrogen, oxygen, or Carbon-Monoxide (CO), or wherein the electrochemical sensor is based on optical detection or on ionization and is a smoke, a flame, or a fire detector, or is responsive to combustible, flammable, or toxic gas.

49. (Withdrawn) The appliance according to claim 32, wherein the first sensor consists of, or comprises, an electroacoustic sensor that responds to an audible or inaudible sound.

50. (Withdrawn) The appliance according to claim 49, wherein the electroacoustic sensor is an omnidirectional, unidirectional, or bidirectional microphone that is based on the sensing an incident sound based motion of a diaphragm or a ribbon, and the microphone consists of, or comprises, a condenser, an electret, a dynamic, a ribbon, a carbon, or a piezoelectric microphone.

51. (Withdrawn) The appliance according to claim 1, further comprising in the single enclosure a light source that emits visible or non-visible light for illumination or indication, the non-visible light is infrared, ultraviolet, X-rays, or gamma rays, the light source is coupled to the AC connector for

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being powered from the AC power, and wherein the light source is coupled to the wireless transceiver for illumination or indication in response to digital data received from the wireless network.

52. (Withdrawn) The appliance according to claim 51, wherein the light source is coupled to the current sensor for illumination or indication in response to the measured AC current.

53. (Withdrawn) The appliance according to claim 51, wherein the light source consists of, or comprises, a lamp, an incandescent lamp, a gas discharge lamp, a fluorescent lamp, a Solid-State Lighting (SSL), a Light Emitting Diode (LED), an Organic LED (OLED), a polymer LED (PLED), or a laser diode.

54. (Withdrawn) The appliance according to claim 1, further comprising in the single enclosure an actuator for affecting a physical phenomenon, wherein the actuator is coupled to the wireless transceiver for being activated or controlled in response to digital data received from the wireless network.

55. (Withdrawn) The appliance according to claim 54, wherein the actuator consists of, or comprises, a motion actuator that causes linear or rotary motion, and the appliance further comprising a conversion mechanism for respectfully converting to rotary or linear motion based on a screw, a wheel and axle, or a cam.

56. (Withdrawn) The appliance according to claim 54, wherein the actuator consists of, or comprises, a sounder for converting an electrical energy to omnidirectional, unidirectional, or bidirectional pattern emitted, audible or inaudible, sound waves.

57. (Withdrawn) The appliance according to claim 54, wherein the actuator consists of, or comprises, an electromagnetic coil

or an electromagnet operative for generating a magnetic or electric field.

58. (Withdrawn) The appliance according to claim 54, wherein the actuator consists of, or comprises, an electrical signal generator.

59. (Withdrawn) The appliance according to claim 54, wherein the actuator consists of, or comprises, a chemical or an electrochemical actuator, and is operative for producing, changing, or affecting a matter structure, properties, composition, process, or reactions.

60. (Withdrawn) The appliance according to claim 54, wherein the actuator consists of, or comprises, a thermoelectric actuator and is a heater or a cooler, operative for affecting the temperature of a solid, a liquid, or a gas object, and is coupled to the object by conduction, convection, force convention, thermal radiation, or by the transfer of energy by phase changes.

61. (Withdrawn) The appliance according to claim 1, further being addressable in the wireless network using distinct locally administered addresses or a universally administered digital addresses stored in a volatile or non-volatile memory in the single enclosure, which uniquely identifying the appliance in the wireless network or in the Internet.

62. (Withdrawn, Currently amended) The appliance according to claim 61, wherein the digital address is a Media Access Control (MAC) ~~MAC~~ layer address that is MAC-48, Extended Unique Identifier (EUI) EUI-48, or EUI-64 address type.

63. (Withdrawn, Currently amended) The appliance according to claim 61, wherein the digital address is a layer 3 address and is static or dynamic Internet Protocol (IP) ~~IP~~ address that is IPv4 or IPv6 type address.

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64. (Withdrawn, Currently amended) The appliance according to claim 61, wherein the digital address is autonomously assigned, or wherein the digital address is assigned by another appliance using Dynamic Host Configuration Protocol (DHCP) ~~DHCP~~.

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REMARKS / COMMENTS

The examiner's action dated September 24, 2018 ("Action"), has been received and its contents carefully noted. The detailed rejection is appreciated. The rejections are traversed for reasons to be presented below.

Claims 1 is amended to overcome the objection in section 6 of the Action.

Regarding section 3 of the Action.

The arguments for traversal of the restriction that were made as part of the traversal **were ignored by the Examiner,** which is in contrast to the MPEP procedures.

Regarding section 8 of the Action.

The recited terms, in particular when interpreted under BRI, need not any additional details, and the Action clearly suggest importing limitations to the claim, while "*Though understanding the claim language may be aided by explanations contained in the written description, it is important not to import into a claim limitations that are not part of the claim. For example, a particular embodiment appearing in the written description may not be read into a claim when the claim language is broader than the embodiment.*" Superguide Corp. v. DirecTV Enterprises, Inc., 358 F.3d 870, 875, 69 USPQ2d 1865, 1868 (Fed. Cir. 2004). See also Liebel-Flarsheim Co. v. Medrad Inc., 358 F.3d 898, 906, 69 USPQ2d 1801, 1807 (Fed. Cir. 2004).

These terms are well known in the art and are exampled and described in the specification. Receiving and transmitting data over wireless network is known in the art and described at least in paragraphs 0183-0185, 0269, 0572 of the

related publication US 2017/0331899, and throughout the description. Similarly, latching / non-latching relay is known in the art and clearly described in paragraphs 0110 and 0176 of the related publication US 2017/0331899.

The Action clearly confuses breadth with indefiniteness. In re Miller, 441 F.2d 689, 693 (CCPA 1971) ("*[B]readth is not to be equated with indefiniteness.*"). Furthermore, "*[a] claim is indefinite when it contains words or phrases whose meaning is unclear.*" In re Packard, 751 F.3d 1310, 1314 (Fed. Cir. 2014). In particular, the Action has not articulated reasons WHY a skilled artisan would have difficulty understanding the term or the scope of the claimed subject matter. Even if there were a lack of descriptive support, which is not, as discussed herein, the absence of descriptive support alone does not necessarily demonstrate indefiniteness. [See *In re Borkowski*, 422 F.2d, 904, 909 (CCPA 1970) and MPEP § 2174.

Office Action, section 9 pages 4-5

Claims 1, 7, 9, 10 are rejected under pre-AIA 35 U.S.C. 101 as being directed to a judicial exception.

a. The Action does not provide a reasoned rationale that identifies the judicial exception recited in the claim and why it is considered an exception. In particular, while claim 1 recites an appliance (as admitted in STEP 1 Analysis), in STEP 2A 'step' are mistakenly mentioned, and the Action has not adequately articulated why the claimed concepts recited an 'abstract idea'. Therefore, the Action has not satisfied the *prima facie* burden of clearly articulating the reasons why the claimed invention is not eligible.

b. The judicial exception cited in the Action is "*remotely accessing and retrieving information*" based on the 'Int. Ventures v. Erie Indemnity' case. First, as admitted by the Action itself, the claimed method does not recite any 'accessing' information but is rather involved in **transmitting sensor data.** Hence the Action is clearly "*describing the claims at such a high level of abstraction and untethered from the language of the claims all but ensures that the exceptions to §101 swallow the rule*." Enfish, LLC v. Microsoft Corp., 822 F.3d 1327, 1337 (Fed. Cir. 2016).

c. It is respectfully submitted that these claims are not directed to a judicial exception at least because the claim limitations include various tangible and physical activities, that cannot be considered as abstract. It is noted that none of the examples provided in the USPTO guidelines include signal processing (such as processing human voice) and affecting a physical phenomenon based on such analysis. Further, as admitted in the Action itself, the captured voice is transformed into an actuator operation, according to MPEP 2106.05(c) ("*Particular Transformation[R-08.2017]*"), where "*[T]ransformation and reduction of an article 'to a different state or thing' is the clue to patentability of a process claim that does not include particular machines*." Bilski v.Kappos, 561 U.S. 593, 658, 95 USPQ2d 1001, 1007(2010) (quoting Gottschalk v. Benson, 409 U.S. 63,70, 175 USPQ 673, 676 (1972)). If such a transformation exists, the claims are likely to be significantly more than any recited judicial exception.

d. It is submitted that <u>according to the Action itself</u>, the claims '*improve another technology or technical field*'. The Action itself on page 9 admits to improvement of "*implementing*

systems and methods for automatically positioning a control knob …" – hence admitting to improvement in control technology.

e. The Action seems to state on page 6 that the claims are directed to 'routine and conventional functionalities' based on the background of the specification. While some of the functionalities may be known in the art as described in the specification, such features are not necessarily 'routine and conventional functionalities' - See Berkheimer v. HP Inc., 881 F.3d 1369 (Fed. Cir. 2018) – "*Finally, the Federal Circuit drew a distinction between what is well-understood, routine, conventional, and what is simply known in the prior art, cautioning that* ***the mere fact that something is disclosed in a piece of prior art does not mean it was a well-understood, routine, conventional*** *activity or element*." (Emphasis added). Hence, the Action fails to provide any factual evidence that the claimed features are "*well-understood, routine, conventional*" as required.

f. It is further submitted that the claims are similar to other claims that were found eligible by the PTAB or various courts.

Office Action, section 10 pages 7-11

Claims 1, 7, 9, and 10 are rejected under pre-AIA 35 U.S.C. 103 as being unpatentable over Ebron *et al.* (US 2016/0218884 – hereinafter "Ebron"), in view of Legaspi (US 2012/0325197 – hereinafter "Legaspi").

General.

The rejection is vague and unclear since it provides no more than copied passages from the references, combined with Examiner interpretation. It is not clear how claimed elements

or features are equated to elements or features in the references. ""*when a rejection is so uninformative that it prevents the applicant from recognizing and seeking to counter the grounds for rejection" that the prima facie burden has not been met and the rejection violates the minimal requirements of 35 U.S.C. § 132*". Chester v. Miller, 906 F.2d 1574, 1578 (Fed. Cir. 1990). **It is requested that unless allowed, the next Action will be a non-final one and will clearly indicate what element in the references is equated to the recited ones.**

Improper reference

The primary reference relied upon in the Ebrom reference 2016/0218884. This reference was filed on **February 29, 2016,** as a continuation-in-part of application 14/874,682 filed on **October 5, 2015,** which is a continuation of application 11/930,299 filed on **October 31, 2007.** The rejection is based on Figures 34-35. However, these Figures and their associated text were NOT part of the application 11/930,299 filed on **October 31, 2007,** but were added only as part of application 15/056,674 filed on **February 29, 2016,** much after the priority date of the current application. **Hence, the Ebrom reference cannot serve as prior art to this application.**

Regarding combining references.

The Appellant submits that the cited references are directed towards respectively different fields and purposes, and are based on respectively different structures, and thus are not analogous to one another and cannot logically be combined. The Action does not explain, as required by the rules, what is the reasoning behind the combining of the references, and why these references are analogous to each other. **If the Action is based on the reference being in the**

same field, it is hereby requested that the definition of the field of both the cited references will be included in the next Action. If the Action is based on the reference being pertinent to the same problem, it is hereby requested that the definition of the problem will be included in the next Action.

Regarding rationale for combining with Legaspi

The rationale is stated as "… *for the purpose of implementing systems and methods for automatically positioning a control knob unit to an Off position upon the occurrence of a safety event. Positioning the control knob unit to an Off position causes the gas and/or electricity emanating from the appliances, such as from burners on a stove, to terminate.*", and stated to be based on paragraph 0002 of the Legaspi reference.

This rationale is not clear since the primary reference Ebron is silent regarding any 'control knob' or regarding any gas or burners appliances.

The rejection conclusory states that "… *it would have been obvious … to combine the method*" of one reference with the features taught by the other reference. However, it is not clear HOW the primary reference (Ebron) reference is modified. For example, how and where are the additional limitations added, and are they added as a substitute or as an addition to the Ebron described elements?. Similarly, it is not clear how the Ebron system is modified to include this additional (or substitute) device. Hence, 35 U.S.C. § 132 section "*is violated when a rejection is so uninformative that it prevents the applicant from recognizing and seeking to counter the grounds for rejection.*" Chester v. Miller, 906 F.2d 1574, 1578 (Fed. Cir. 1990). [In re Jung, 637 F. 3d 1356, 1362 (Fed. Cir. 2011).].

The absence of a reply to a specific rejection, issue, or comment, does not signify agreement with that rejection, issue, or comment. In addition, because the arguments made above may not be exhaustive, there may be reasons for patentability of any or all pending claims that have not been expressed.

Nothing in this reply should be understood as conceding any issue with regard to any claim, except as specifically stated in this reply, and the amendment of any claims does not necessarily signify concession of unpatentability to the claim before its amendment. It should further be understood that any filing of a terminal disclaimer to obviate a rejection based on nonstatutory double patenting is not an admission of the propriety of the rejection.

If the above arguments should not now place the application in the condition for allowance, the examiner is invited to call undersigned counsel to resolve any remaining issues.

Respectfully submitted,

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Electronic Acknowledgement Receipt	
EFS ID:	33903732
Application Number:	15992221
International Application Number:	
Confirmation Number:	8906
Title of Invention:	SYSTEM AND METHOD FOR SERVER BASED CONTROL
First Named Inventor/Applicant Name:	Yehuda BINDER
Customer Number:	131926
Filer:	Yehuda Binder
Filer Authorized By:	
Attorney Docket Number:	BINDER-014-US7
Receipt Date:	03-OCT-2018
Filing Date:	30-MAY-2018
Time Stamp:	11:47:04
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		40G-10-2018-NFOA-Response.pdf	294030 f8e7a2f86bf7e49405c84c3dc924840265c601c1	yes	19

	Multipart Description/PDF files in .zip description		
	Document Description	**Start**	**End**
	Amendment/Req. Reconsideration-After Non-Final Reject	1	1
	Claims	2	12
	Applicant Arguments/Remarks Made in an Amendment	13	19
Warnings:			
Information:			
	Total Files Size (in bytes):	294030	

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New Applications Under 35 U.S.C. 111
If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.
National Stage of an International Application under 35 U.S.C. 371
If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.
New International Application Filed with the USPTO as a Receiving Office
If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

PTO/SB/06 (09-11)
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PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 15/992,221	Filing Date 05/30/2018	☐ To be Mailed

ENTITY: ☐ LARGE ☒ SMALL ☐ MICRO

APPLICATION AS FILED – PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA	RATE ($)	FEE ($)
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A	
☐ SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A	N/A	
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 =	*	X $ =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*	X $ =	
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $310 ($155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).			
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))				
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL	

APPLICATION AS AMENDED – PART II

AMENDMENT 10/03/2018

	(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	RATE ($)	ADDITIONAL FEE ($)
Total (37 CFR 1.16(i))	* 64	Minus	** 64	= 0	X $50 =	0
Independent (37 CFR 1.16(h))	* 1	Minus	***3	= 0	X $230 =	0
☐ Application Size Fee (37 CFR 1.16(s))						
☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))						
					TOTAL ADD'L FEE	0

AMENDMENT

	(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	RATE ($)	ADDITIONAL FEE ($)
Total (37 CFR 1.16(i))	*	Minus	**	=	X $ =	
Independent (37 CFR 1.16(h))	*	Minus	***	=	X $ =	
☐ Application Size Fee (37 CFR 1.16(s))						
☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))						
					TOTAL ADD'L FEE	

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".
*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".
The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.

LIE
NICOLE NICHOLSON

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**
If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

ATTY.'S DOCKET: BINDER-014-US7

In re Application of:	)	Confirmation No. 8906
	)	
Yehuda BINDER	)	Art Unit: 2456
	)	
Appln. No.: 15/992,221	)	Examiner: Khan, Hassan Abdu
	)	
Filed: May 30, 2018	)	Washington, D.C.
	)	
For: SYSTEM AND METHOD FOR SERVER BASED CONTROL	)	October 2, 2018
	)	

Mail Stop Petition,
Honorable Commissioner for Patents
U.S. Patent and Trademark Office
P.O. Box 1450
Alexandria, Virginia 22313-1450

Dear Honorable Commissioner:

Petition from requirement for restriction

A petition under 37 CFR 1.181 is hereby submitted to TC director from a requirement for restriction/election dated August 28, 2018, followed by a non-final action dated September 24, 2018, after traversal of former restriction requirement.

Actions Requested

1. Withdrawal of the restriction / election requirement dated August 28, 2018, and examining ALL pending claims in the application.

Statement of Facts Involved

1. This application was filed on May 30, 2018. A Requirement for restriction election was issued on August 28, 2018 (hereinafter – "Restriction"), and an election WITH TRAVERSE was filed on September 13, 2018. A non-final action confirming the traversed election was issued on September 24, 2018, **without any response to the traversal arguments raised.**

2. The "Requirement for restriction election" that was issued on August 28, 2018 restricted the **64 claims filed** into **17 groups**, some of the groups included **2-13 species**, totaling **44 combinations** to select from, where each combination includes **no more than 4 claims.**

Points to be Reviewed

1. It is further noted that restricting **64** claims to **17** different inventions and **44** total combinations, each combination includes **no more than 4 claims**, is an abuse of discretion of the restriction mechanism, intended only to reduce **serious** burden, in particular in view of the excessive claims fee that is required by the Office, and was paid by the applicant. It is improper to consider examining more than 4 claims as 'serious burden'.

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2. Further, on page 10 of the Restriction, the list of ALL reasons for 'serious search and / or examination burden' are detailed, without pointing out exactly WHICH reasons are relevant to the application.

3. The Restriction is based on conclusory statement and boilerplate paragraphs, preventing the applicant from recognizing and seeking to counter the restriction ground. ""*when a rejection is so uninformative that it prevents the applicant from recognizing and seeking to counter the grounds for rejection" that the prima facie burden has not been met and the rejection violates the minimal requirements of 35 U.S.C. § 132*". Chester v. Miller, 906 F.2d 1574, 1578 (Fed. Cir. 1990). A request for further explanation of the Restriction and arguments that were made as part of the traversal **were ignored by the Examiner** in the following non-final action, which is in contrast to the MPEP procedures.

4. For example, it is not clear if the restriction is based on 'subcombinations usable together' or on '*patentably distinct inventions*'. Further, it is not clear WHY 'the inventions are distinct, each from the other' (page 3), WHY some species are '*patentably distinct species*' (pages 3-7), WHY the invention/species are '*independent or distinct*' (page 9), and WHY there is '*a serious search and/or examination burden*' (page 9).

The restriction seems to be based on MPEP 806.05(d) ('*Subcombinations Usable Together*'). It is noted that this chapter clearly requires that such subcombinations '*are not obvious variants*'. The restriction provides no explanation WHY the subcombinations are '*not obvious variants*' as required by

the MPEP. Further, the restriction states that the subcombinations are '*usable together in a single combination*'.

5. It is not clear, and not explained in the restriction requirement, for example, HOW WPAN (invention VIII) and WLAN (invention IX) are '*usable together in a single combination*'. It is further noted that the restriction requirement fails to show the MPEP 806.05(d) requirement that '*two-way distinctness and reasons for insisting on restriction* ***are necessary***' (Emphasis added). In particular, claim 1 recites a SINGLE wireless network, so it is not clear HOW the two variants (WPAN and WLAN) are 'usable together'.

6. Furthermore, the restriction requirement only provides by passing on page 3 a statement that the subcombinations '*have separate utilities*'. It is further noted that the restriction requirement fails to show according to MPEP 806.05(d) that the subcombinations has utility '*other than in the disclosed combination*'.

Further, MPEP §806.04(h) explicitly recites that "*Species Must Be Patentably Distinct From Each Other*". The restriction requirement does not explain WHY and HOW the defined species (such as those of invention XIV shown in pages 5-6) are *Patentably Distinct From Each Other.*

Respectfully submitted,

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Amazon EX1003 Page 874

Electronic Acknowledgement Receipt

EFS ID:	33895335
Application Number:	15992221
International Application Number:	
Confirmation Number:	8906
Title of Invention:	SYSTEM AND METHOD FOR SERVER BASED CONTROL
First Named Inventor/Applicant Name:	Yehuda BINDER
Customer Number:	131926
Filer:	Yehuda Binder
Filer Authorized By:	
Attorney Docket Number:	BINDER-014-US7
Receipt Date:	02-OCT-2018
Filing Date:	30-MAY-2018
Time Stamp:	15:13:57
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Petition for review by the Technology Center SPRE	40G-Petition-for-restriction.pdf	226476 6e5ea6d3bd621de2dcb69a919fe2040a1541d56a	no	4

Warnings:

Information:	
Total Files Size (in bytes):	226476

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New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

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UNITED STATES DEPARTMENT OF COMMERCE
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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
15/992,221	05/30/2018	Yehuda BINDER	BINDER-014-US7

CONFIRMATION NO. 8906

131926
May Patents Ltd. c/o Dorit Shem-Tov
P.O.B 7230
Ramat-Gan, 5217102
ISRAEL

PUBLICATION NOTICE

Title:SYSTEM AND METHOD FOR SERVER BASED CONTROL

Publication No.US-2018-0278694-A1
Publication Date:09/27/2018

NOTICE OF PUBLICATION OF APPLICATION

The above-identified application will be electronically published as a patent application publication pursuant to 37 CFR 1.211, et seq. The patent application publication number and publication date are set forth above.

The publication may be accessed through the USPTO's publically available Searchable Databases via the Internet at www.uspto.gov. The direct link to access the publication is currently http://www.uspto.gov/patft/.

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In addition, information on the status of the application, including the mailing date of Office actions and the dates of receipt of correspondence filed in the Office, may also be accessed via the Internet through the Patent Electronic Business Center at www.uspto.gov using the public side of the Patent Application Information and Retrieval (PAIR) system. The direct link to access this status information is currently https://portal.uspto.gov/pair/PublicPair. Prior to publication, such status information is confidential and may only be obtained by applicant using the private side of PAIR.

Further assistance in electronically accessing the publication, or about PAIR, is available by calling the Patent Electronic Business Center at 1-866-217-9197.

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/992,221	05/30/2018	Yehuda BINDER	BINDER-014-US7	8906

131926 7590 09/24/2018

May Patents Ltd. c/o Dorit Shem-Tov
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ISRAEL

EXAMINER	
KHAN, HASSAN ABDUR-RAHMAN	

ART UNIT	PAPER NUMBER
2456	

MAIL DATE	DELIVERY MODE
09/24/2018	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 15/992,221	Applicant(s) BINDER et al.	
	Examiner HASSAN A KHAN	Art Unit 2456	AIA Status No

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTHS FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☑ Responsive to communication(s) filed on 05/30/2018.

☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

2a)☐ This action is **FINAL.** 2b) ☑ This action is non-final.

3)☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.

4)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims*

5) ☑ Claim(s) 1-64 is/are pending in the application.

5a) Of the above claim(s) 2-6,8 and 11-64 is/are withdrawn from consideration.

6) ☐ Claim(s) _____ is/are allowed.

7) ☑ Claim(s) 1,7 and 9-10 is/are rejected.

8) ☑ Claim(s) 1 is/are objected to.

9) ☐ Claim(s) _____ are subject to restriction and/or election requirement

* If any claims have been determined allowable, you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to **PPHfeedback@uspto.gov.**

Application Papers

10)☐ The specification is objected to by the Examiner.

11)☑ The drawing(s) filed on 05/30/2018 is/are: a)☑ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

Certified copies:

a)☐ All b)☐ Some** c)☐ None of the:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

** See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☑ Notice of References Cited (PTO-892)

2) ☑ Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/SB/08b) Paper No(s)/Mail Date Six IDS (05/30/2018).

3) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date _____.

4) ☐ Other: _____.

DETAILED ACTION

Notice of Pre-AIA or AIA Status

1. The present application is being examined under the pre-AIA first to invent provisions.

2. Claims 1- 64 are pending.

Election/Restrictions

3. Applicant's election with traverse of Claims 1, 7, 9 and 10 in the response sent on 09/13/2018 is acknowledged.

Priority

4. Applicant's claim for the benefit of a prior-filed continuation of application no. 15/361,434 filed on 11/27/20163, which is a DIV of application no. 13/733,634 filed on 01/03/2013, which has a provisional application no. 61/584,500 filed on 01/09/2012, 61/620,129 filed on 04/04/2012, 61/637,030 filed on 04/23/2012, and 61/647,034 filed on 05/15/2012 under 35 U.S.C. 119(e) is acknowledged.

Drawings

5. The applicant's submitted drawings are acceptable for examination purposes.

Claim Objections

6. **Claim 1,** is objected to because of the following informalities: The claim 1 uses the term AC which is an acronym and not defined in full. Appropriate correction is required.

Information Disclosure Statement

7. The six (6) information disclosure statements (IDS) submitted on 05/30/2018 are in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statements has not being considered by the examiner. It is impractical for the examiner to review the references thoroughly with the number of references (375+) cited in the case. By initialing each of the cited references on the accompanying 1449 forms, the examiner is merely acknowledging the submission of the cited references and merely indicating that only a cursory review is made of the cited references. Please identify the top 10-20 references that is the most relevant art, with pinpoint specific citations for review.

An applicant's duty of disclosure of material and information is not satisfied by presenting a patent examiner with "a mountain of largely irrelevant [material] from which he is presumed to have been able, with his expertise and with adequate time, to have found the critical [material]. It ignores the real world conditions under which examiners work." Rohm & Haas Co. v. Crystal Chemical Co., 722 F.2d 1556, 1573 [220 USPQ 289] (Fed. Cir. 1983), cert. denied, 469 U.S. 851 (1984) (Emphasis in original). Patent applicant has a duty not just to (disclose pertinent prior art references but to make a disclosure in such way as not to "bury" it within other disclosures of less relevant prior art; See Golden Valley Microwave Foods Inc. v. Weaver Popcorn Co. Inc., 24 USPQ2d 1801 (N.D Ind. 1992); Molins PLC v. Textron Inc., 26 USPQ2d 1889, at 1899 (D.Del. 1992); Penn Yan Boats, Inc. v. Sea Lark Boats, Inc. et al., 175 USPQ 260, at 272 (S.D. Fl-1972).

Claim Rejections - 35 USC § 112

The following is a quotation of 35 U.S.C. 112 (pre-AIA), second paragraph:

> The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

8. **Claims 1 and 9** are rejected under 35 U.S.C. 112(b) or 35 U.S.C. 112 (pre-AIA), second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which the inventor or a joint inventor, or for pre-AIA the applicant regards as the invention. Claim 1 uses the phrase *transmitting digital data to, and for receiving digital data from, the wireless network,* and Claim 9 uses the phrase *latching or a non-latching type relay,* however these phrase, is not distinctly defined in the specifications and not pointed out in the drawings. Detailed explanation with exact examples and diagrams are required for clarification. Correction is required.

Claim Rejections - 35 USC § 101

35 U.S.C. 101 reads as follows:

> Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

9. **Claims 1, 7, 9 and 10** are rejected under 35 U.S.C. 101 because the claimed invention is directed to a judicial exception (i.e., a law of nature, a natural phenomenon, or an abstract idea) without significantly more.

a. **Following the 2014 Interim Eligibility Guidance:**

i. **STEP 1 Analysis:** The claims are directed to a food storage, handling or preparation appliance and are therefore a statutory **(Step 1: YES)**.

ii. **STEP 2A Analysis:** The claim(s) recite(s) the steps to the assembly and working of an electric powered appliance related to food, and accessing/controlling the appliance through sending data over a wireless transceiver connected to a network, all which is an abstract idea similar to the concepts that have been identified as abstract by the courts, such as [*remotely accessing and retrieving information, Int. Ventures v. Erie Indemnity I: '002 patent*]. Therefore, the claim(s) is/are directed to an abstract idea **(Step 2A: YES)**

iii. **STEP 2B Analysis:**

(1) The claim(s) recite(s) the additional element(s)/limitation(s) of *AC connector for connecting the appliance to an AC power, a current sensor for measuring an AC current consumed by the appliance, an antenna for communication over the network, transmitting and receiving digital data from the wireless network,* which when taken individually amounts to routine and conventional functionalities. The Applicant demonstrated in prior art in (¶Pg. 6 and ¶Pg. 7) that Z-Wave is a wireless communications protocol designed for home automation, specifically for remote control applications in residential and light commercial environments such as household appliances, by sending and receiving control commands over the network for remote control applications. Hence, from reviewing the presented sections from the BACKGROUND section of the applicants' specifications, it is well understood that the claims are directed to routine and conventional functionalities, and when taken individually, the additional element(s) of the claim(s) does not provide significantly more to the abstract idea claimed.

(2) The combination of all elements as a whole are no more than the sum of their parts, and provides nothing more than [*an electric-powered network connected food appliance that transmits and receives digital data over a wireless network*]. The claim(s) does not improve another technology or technical field; nor improve the functioning of a computer itself, nor is the invention implemented using a particular machine. For these reasons, the claim(s) is/are ineligible **(Step 2B: No)**

Claim Rejections - 35 USC § 103

The following is a quotation of pre-AIA 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

> (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103 are summarized as follows:

1. Determining the scope and contents of the prior art.

2. Ascertaining the differences between the prior art and the claims at issue.

3. Resolving the level of ordinary skill in the pertinent art.

4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

This application currently names joint inventors. In considering patentability of the claims the examiner presumes that the subject matter of the various claims was commonly owned as of the effective filing date of the claimed invention(s) absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and effective filing dates of each claim that was not commonly owned as of the effective filing date of the later invention in order for the examiner to consider the applicability of 35 U.S.C. 102(b)(2)(C) for any potential 35 U.S.C. 102(a)(2) prior art against the later invention.

10. **Claims 1, 7, 9 and 10** are rejected under 35 U.S.C. 103 as being unpatentable over US Patent Application Publication No. 2016/0218884 to Ebrom et al. (hereinafter Ebrom), in view of US Patent Application Publication No. 2012/0325197 to Legaspi et al. (hereinafter Legaspi).

Regarding Claim 1, Ebrom discloses (in ¶0006) methods and apparatus for communicatively coupling internal components and accessories appliances, and appliances with external components and accessories that further includes:

an AC-powered appliance associated with food storage, handling, or preparation for use with a wireless network, the appliance comprising an AC connector for connecting the appliance to an AC power source; Ebrom discloses (in Figs. 1 and ¶0014) method of operating an appliance connected with a communications network. Further, Ebrom discloses (in Figs. 34, 35 and ¶0313 – ¶0339) that the appliance is an AC powered appliance that is configured to perform an operation on a consumable physical article such as food using resources such as water, steam gas, electricity. Example of appliance 12 includes ovens, ranges, steam cookers, ice makers, refrigerators, drink makers.

a current sensor coupled to the AC connector for measuring an AC current consumed by the appliance, wherein the current sensor is coupled to the wireless transceiver for transmitting digital data in response to the measured AC current to the wireless network; Ebrom discloses (in Figs. 34, 35 and ¶0313 – ¶0339) that the process control apparatus B14 can comprise one or more components, such as electronic control boards, wiring and wiring harnesses, power-supplies, sensors (e.g. current sensor) integrated with the electronics as digital or analog inputs, and actuators like valves, relays, heaters, and the like, any or all of which can integrate with the electronics as digital or analog outputs. Ebrom discloses (in ¶0237– ¶0241) the energy controller can be a separate component on the network that communicates with several appliances and other networked components in the home and also with an energy source,

such as an electricity source. The energy controller can monitor the amount of energy used by each of the appliances. The energy controller can also control the operation of the appliances.

Ebrom does not explicitly disclose an antenna for communication over the wireless network, a wireless transceiver coupled to the antenna for transmitting digital data to, and for receiving digital data from, the wireless network, and a single enclosure housing, the antenna, and the wireless transceiver, wherein the appliance is controlled or activated in response to digital data received from the wireless network. However, in an analogous art, Legaspi teaches:

an antenna for communication over the wireless network, a wireless transceiver coupled to the antenna for transmitting digital data to, and for receiving digital data from, the wireless network, and a single enclosure housing, the antenna, and the wireless transceiver, wherein the appliance is controlled or activated in response to digital data received from the wireless network; Legaspi teaches (in Figs. 1, 5 and ¶0074-¶0077) a cross-sectional view of a remote control knob unit 500 having a wireless receiver module 512, a printed circuit board 502 mounted to a housing (chassis) 504 of the remote control knob unit 500 and have a shaft chamber 501, connected to the ground of the printed circuit board 502 and wireless receiver module 512 located on the printed circuit board 502. Located on the printed circuit board is a decoder 503 compatible with an encoder of a transmitter module on a detector module or a transceiver. The decoder 503, when activated, may energize a relay 509, located on the printed circuit board 502, providing power to a solenoid coil 505 of a solenoid locking mechanism 514, secured to the housing 504 of the remote control unit, through a power connector 507. The wireless receiver module 512 may receive a signal from a transmitter through a specified frequency and communicate with the decoder 503 to power on the relay 509. A receiver module antenna 511 is secured to the printed circuit board 502 to avoid obstruction to when rotating the control knob unit 500.

It would have been obvious as of the effective filing date to one of ordinary skill in the art to combine an AC-powered appliance associated with food storage, handling, or preparation for use with a

wireless network, the appliance comprising an AC connector for connecting the appliance to an AC power source, a current sensor coupled to the AC connector for measuring an AC current consumed by the appliance, wherein the current sensor is coupled to the wireless transceiver for transmitting digital data in response to the measured AC current to the wireless network, as disclosed by Ebrom, and an antenna for communication over the wireless network, a wireless transceiver coupled to the antenna for transmitting digital data to, and for receiving digital data from, the wireless network, and a single enclosure housing, the antenna, and the wireless transceiver, wherein the appliance is controlled or activated in response to digital data received from the wireless network, as taught by Legaspi, for the purpose of implementing systems and methods for automatically positioning a control knob unit to an Off position upon the occurrence of a safety event. Positioning the control knob unit to an off position causes the gas and/or electricity emanating from the appliances, such as from burners on a stove, to terminate (Legaspi, ¶0002).

Regarding Claim 7, the combination of Ebrom and Legaspi discloses all the elements with respect to claim 1. Further, the combination discloses:

further comprising in the single enclosure an electrically actuated switch connected to switch electric power to at least part of the appliance, wherein the electrically actuated switch is coupled to the wireless transceiver for being activated in response to digital data received from the wireless network; Legaspi teaches (in Fig. 1 and ¶0058 - ¶0059) a wireless switchboard module 106 communicatively coupled between the remote control knob unit 102 on the appliance 104 and a communication device 108. The communication device 108 may be wired or wirelessly connected to the wireless switchboard module 106 a. The communication device 108 may be utilized to activate the switchboard module 106 causing the switchboard module 106 to transmit a signal to the remote control knob unit 102 which in turn may automatically turn or rotate the knob to the off position. As shown, a

remote control knob unit 102 may be utilized to remotely operate a device, such as a cooking appliance 104. The remote control knob unit 102 may include a control knob directly engaged with the operational shaft of the cooking appliance 104, the operational shaft of the appliance for opening and closing a gas control valve, a thermal control switch and/or power supply used to operate the appliance 104.

Regarding Claim 9, the combination of Ebrom and Legaspi discloses all the elements with respect to claim 7. Further, the combination discloses:

wherein the electrically actuated switch is a latching or a non-latching type relay; Legaspi teaches (in Figs. 3-6 and ¶0014) that the locking mechanism may comprise a mechanism housing with a latching rod slidably disposed within the mechanism housing and movable between a first position and a second position, wherein the latching rod engages the plurality of teeth of the sprocket when moved from the first position to the second position causing the sprocket to rotate, and a locking spring surrounding the latching rod and adapted to move the latching rod between the first and second positions, and a solenoid coil surrounding the locking spring and rotating, where an electrical current applied to the solenoid coil energizes the solenoid coil generating a magnetic field biasing the latching rod between the first and second positions.

Regarding Claim 10, the combination of Ebrom and Legaspi discloses all the elements with respect to claim 9. Further, the combination discloses:

wherein the relay is a solenoid-based electromagnetic relay that is a reed relay, wherein the relay is solid-state or semiconductor based, or wherein the relay is a Solid State Relay (SSR); Legaspi teaches (in Figs. 5 and ¶0075-¶0076) the decoder 503, when activated, may energize a relay 509, located on the printed circuit board (i.e. semiconductor based) 502, providing power to a solenoid coil 505 of a solenoid locking mechanism 514, secured to the housing 504 of the remote control unit, through a power

connector 507. The solenoid locking mechanism 514 may include a latching rod 506 slidably disposed within a housing 516 of the mechanism 514 and movable between a first position and a second position.

Conclusion

11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to HASSAN KHAN whose telephone number is (313) 446-6574 and fax number is (571) 483-7559. The examiner can normally be reached on MONDAY - THURSDAY. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor Philip Chea can be reached on (571) 272-3951. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/HASSAN A KHAN/
Examiner, Art Unit 2456

Notice of References Cited	Application/Control No. 15/992,221	Applicant(s)/Patent Under Reexamination	
	Examiner HASSAN A KHAN	Art Unit 2456	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
*	A	US-20170272316-A1	09-2017	Johnson; Michael W.	H04L41/28	1/1
*	B	US-20180253069-A1	09-2018	Raji; Reza	G06Q30/02	1/1
*	C	US-20160218884-A1	07-2016	EBROM; Matthew P.	D06F33/02	1/1
*	D	US-20110251807-A1	10-2011	Rada; Patrick A.	G01D4/00	702/61
*	E	US-20120228952-A1	09-2012	Hall; Katherine L.	H03H7/40	307/104
*	F	US-20140170275-A1	06-2014	Bordin; Domenic	G09B19/24	426/233
*	G	US-20150226439-A1	08-2015	Mikulec; Conrad S.	F24C15/2021	99/337
*	H	US-20120325197-A1	12-2012	Legaspi; Ferdinand Villegas	F23N5/242	126/42
*	I	US-20090183729-A1	07-2009	Barkhouse; Sydney	A47J27/62	126/39BA
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	K					
	L					
	M					

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	CPC Classification
	N					
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	Q					
	R					
	S					
	T					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	
	V	
	W	
	X	

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	15/992,221	BINDER et al.
	Examiner	Art Unit
	HASSAN A KHAN	2456

CPC - Searched*		
Symbol	Date	Examiner
H04L67/12,B60K31/00,B60K31/18,B60Y2200/11,B60Y2200/12, B60Y2200/126,B60Y2200/13,B60Y2200/30,B60Y2200/40,B60Y2200/50 ,B60Y2200/90,G01C21/00,G06Q2240/00,G07C5/008,G08G1/00 (combined with text search)	09/21/2018	H.K.

CPC Combination Sets - Searched*		
Symbol	Date	Examiner

US Classification - Searched*			
Class	Subclass	Date	Examiner
709	218 (combined with text search)	09/21/2018	H.K.

* See search history printout included with this form or the SEARCH NOTES box below to determine the scope of the search.

Search Notes		
Search Notes	Date	Examiner
Inventor search conducted (see EAST search history)	09/21/2018	H.K.
Google Patents search conducted	09/20/2018	H.K.
Assignee search conducted (see EAST search history)	09/21/2018	H.K.
EAST search history (see attached)	09/21/2018	H.K.

Interference Search			
US Class/CPC Symbol	US Subclass/CPC Group	Date	Examiner

/HASSAN A KHAN/ Examiner, Art Unit 2456	

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
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	HASSAN A KHAN	2456

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

CLAIMS

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIM		DATE								
Final	Original	08/15/2018	09/21/2018							
	1	÷	✓							
	2	÷	N							
	3	÷	N							
	4	÷	N							
	5	÷	N							
	6	÷	N							
	7	÷	✓							
	8	÷	N							
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	41	÷	N							
	42	÷	N							

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	15/992,221	BINDER et al.
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CLAIM		DATE								
Final	Original	08/15/2018	09/21/2018							
	43	÷	N							
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	63	÷	N							
	64	÷	N							

Doc code :IDS
Doc description: Information Disclosure Statement (IDS) Filed

PTO/SB/08a (08-08)
Approved for use through 08/31/2008. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT
(Not for submission under 37 CFR 1.99)

Application Number	~~10753554~~
Filing Date	~~2013-03-01~~
First Named Inventor	BINDER Yehuda
Art Unit	
Examiner Name	/HASSAN A KHAN/
Attorney Docket Number	BINDER-~~10A (2013-01-29) 2~~014-US2

U.S.PATENTS						
Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	5930201		1999-27-07	Cray; Benjamin A.	
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	~~15733654~~
	Filing Date	~~2013-03-01~~
	First Named Inventor	BINDER Yehuda
	Art Unit	
	Examiner Name	/HASSAN A KHAN/
	Attorney Docket Number	BINDER~~-101 (2013-04-29) D~~014-US2

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	~~13723634~~
	Filing Date	~~2013-03-01~~
	First Named Inventor	BINDER Yehuda
	Art Unit	
	Examiner Name	/HASSAN A KHAN/
	Attorney Docket Number	BINDER~~-101 (2013-04-29) D~~014-US2

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	~~13793964~~
	Filing Date	~~2013-03-01~~
	First Named Inventor	BINDER Yehuda
	Art Unit	
	Examiner Name	/HASSAN A KHAN/
	Attorney Docket Number	BINDER~~-19A (2013-04-29)~~ 014-US2

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	~~15706964~~
	Filing Date	~~2013-03-01~~
	First Named Inventor	BINDER Yehuda
	Art Unit	
	Examiner Name	/HASSAN A KHAN/
	Attorney Docket Number	BINDER~~-19A (2013-04-29) 2~~ 014-US2

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	~~13723634~~
	Filing Date	~~2012-03-21~~
	First Named Inventor	BINDER Yehuda
	Art Unit	
	Examiner Name	/HASSAN A KHAN/
	Attorney Docket Number	BINDER~~-19A (2012-04-29) D~~014-US2

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Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2]	Kind Code[4]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T[5]
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NON-PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]
	1	Publication "Security Guidance for Critical Areas of Focus in Cloud Computing V2.1", Prepared by the Cloud Security Alliance, December 2009 (76 pages)	☐
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	Application Number	~~13733034~~
	Filing Date	~~2013-03-01~~
	First Named Inventor	BINDER Yehuda
	Art Unit	
	Examiner Name	/HASSAN A KHAN/
	Attorney Docket Number	BINDER=~~10A (2013-04-29) 2~~014-US2

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	[redacted]
	Filing Date	[redacted]1
	First Named Inventor	BINDER Yehuda
	Art Unit	
	Examiner Name	/HASSAN A KHAN/
	Attorney Docket Number	BINDER[redacted]014-US2

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	[redacted]
	Filing Date	2013-03-01
	First Named Inventor	BINDER Yehuda
	Art Unit	
	Examiner Name	/HASSAN A KHAN/
	Attorney Docket Number	BINDER[redacted]014-US2

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	~~15703064~~
	Filing Date	~~2010-03-01~~
	First Named Inventor	BINDER Yehuda
	Art Unit	
	Examiner Name	/HASSAN A KHAN/
	Attorney Docket Number	BINDER~~-19A (2013-04-29)~~ 2014-US2

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	~~15706964~~
	Filing Date	~~2013-03-01~~
	First Named Inventor	BINDER Yehuda
	Art Unit	
	Examiner Name	/HASSAN A KHAN/
	Attorney Docket Number	BINDER~~.19A (2018-04-29) 2~~014-US2

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	
	Filing Date	
	First Named Inventor	Yehuda Binder
	Art Unit	
	Examiner Name	
	Attorney Docket Number	BINDER-014-US2

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

☐ That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

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SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Yehuda Binder/	Date (YYYY-MM-DD)	~~2016-11-07~~ 2018-05-27
Name/Print	Yehuda Binder	Registration Number	73612

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT
(Not for submission under 37 CFR 1.99)

Application Number	~~15733634~~
Filing Date	~~2015-03-01~~
First Named Inventor	BINDER Yehuda
Art Unit	
Examiner Name	/HASSAN A KHAN/
Attorney Docket Number	BINDER~~-19A (2013-04-29) 3~~ 014-US2

U.S.PATENTS						
Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	~~13783684~~
	Filing Date	~~2013-03-01~~
	First Named Inventor	BINDER Yehuda
	Art Unit	
	Examiner Name	/HASSAN A KHAN/
	Attorney Docket Number	BINDER~~-19A (2013-04-29)~~ 3014-US2

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	~~15703034~~
	Filing Date	~~2013-03-01~~
	First Named Inventor	BINDER Yehuda
	Art Unit	
	Examiner Name	/HASSAN A KHAN/
	Attorney Docket Number	BINDER~~-19A (2013-04-29)~~ 6014-US2

	20	5987154		1999-16-11	Gibbon et al.	
	21	6128397		2000-03-10	Baluja et al.	
	22	6188777		2001-13-02	Darrell et al.	
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	25	6332033		2001-18-12	Qian; Richard	
	26	6404900		2002-11-06	Qian et al.	
	27	6407777		2002-18-06	DeLuca; Michael Joseph	
	28	7508961		2009-24-03	Chen et al.	
	29	7315630		2008-01-01	Steinberg et al.	
	30	7110575		2006-19-09	Chen et al.	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	~~15793614~~
	Filing Date	~~2013-03-01~~
	First Named Inventor	BINDER Yehuda
	Art Unit	
	Examiner Name	/HASSAN A KHAN/
	Attorney Docket Number	BINDER~~-40A (2013-04-29)~~-014-US2

	31	6526161		2003-25-02	Yan; Yong	
	32	6516154		2003-04-02	Parulski et al.	
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	40	4317991		1982-02-03	Stauffer; Norman L.	
	41	4367027		1983-04-01	Stauffer; Norman L.	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	~~15706964~~
	Filing Date	~~2013-03-01~~
	First Named Inventor	BINDER Yehuda
	Art Unit	
	Examiner Name	/HASSAN A KHAN/
	Attorney Docket Number	BINDER~~.49A (2013-04-29).3~~014-US2

	42	4638364		1987-20-01	Hiramatsu; Tatsuo	
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	48	5710833		1998-20-01	Moghaddam , et al.	

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U.S.PATENT APPLICATION PUBLICATIONS

Examiner Initial*	Cite No	Publication Number	Kind Code[1]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	20050044119		2005-24-02	Langin-Hooper et al.	
	2	20080263117		2008-23-10	Rose et al.	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	~~15700964~~
	Filing Date	~~2013-03-01~~
	First Named Inventor	BINDER Yehuda
	Art Unit	
	Examiner Name	/HASSAN A KHAN/
	Attorney Docket Number	BINDER~~.19A (2013-04-29).3~~014-US2

FOREIGN PATENT DOCUMENTS								
Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2]	Kind Code[4]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T[5]
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Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]
	1	ITU-T G.9960 entitled: "Unified high-speed wireline-based home networking transceivers – System architecture and physical layer specification", 12/2011 (160 pages)	☐
	2	ITU-T G.989.1 entitled: "Phoneline networking transceivers – Foundation", 02/2001 (19 pages)	☐
	3	RFC 5389 entitled: "Session Traversal Utilities for NAT (STUN)", October 2008 51 pages)	☐
	4	RFC 4098 entitled: "Terminology for Benchmarking BGP Device Convergence in the Control Plane", June 2005 (37 pages)	☐
	5	RFC 3550 entitled: "RTP: A Transport Protocol for Real-Time Applications", July 2003 (89 pages)	☐
	6	RFC 3315 entitled: "Dynamic Host Configuration Protocol for IPv6 (DHCPv6)", July 2003 (102 pages)	☐
	7	RFC 3261 entitled: "SIP: Session Initiation Protocol", June 2002 (269 pages)	☐

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	~~15799954~~
	Filing Date	~~2013-03-~~01
	First Named Inventor	BINDER Yehuda
	Art Unit	
	Examiner Name	/HASSAN A KHAN/
	Attorney Docket Number	BINDER~~-19A (2013-04-29) 3~~014-US2

	8	RFC 2460 entitled: "Internet Protocol, Version 6 (IPv6) Specification", December 1998 (40 pages)	☐
	9	RFC 2131 entitled: "Dynamic Host Configuration Protocol", March 1997 (46 pages)	☐
	10	RFC 1349 entitled: "Type of Service in the Internet Protocol Suite", July 1992 (29 pages)	☐
	11	RFC 1034 entitled: "DOMAIN NAMES - CONCEPTS AND FACILITIES", November 1987 (56 pages)	☐
	12	RFC 1035 entitled: "DOMAIN NAMES - IMPLEMENTATION AND SPECIFICATION", November 1987 (56 pages)	☐
	13	RFC 791 entitled: "Internet Protocol", September 1981 (52 pages)	☐
	14	ECMA-352 entitled: "Near Field Communication -- Interface and Protocol -2 (NFCIP-2)", by ECMA International, 2nd Edition/June 2010 (12 pages)	☐
	15	ECMA-340 entitled: "Near Field Communication -- Interface and Protocol (NFCIP-1)", by ECMA International, 2nd Edition/December 2004 (65 pages)	☐
	16	IEEE Std 802.15.4™-2011, "IEEE Standard for Local and metropolitan area networks - Part 15.4: Low-Rate Wireless Personal Area Networks (LR-WPANs)", Approved 16 June 2011 (334 pages)	☐
	17	IEEE Std 802.15.3c™-2009, "IEEE Standard for Information technology - Part 15.3: Wireless Medium Access Control (MAC) and Physical Layer (PHY) Specifications for High Rate Wireless Personal Area Networks (WPANs)", Published by IEEE on 12 October 2009 (203 pages)	☐
	18	"Universal Serial Bus 3.0 Specification", Revision 1.0, June 6, 2011, downloaded from www.usb.org (531 pages)	☐

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	~~15793954~~
	Filing Date	~~2013-03-01~~
	First Named Inventor	BINDER Yehuda
	Art Unit	
	Examiner Name	/HASSAN A KHAN/
	Attorney Docket Number	BINDER~~.19A (2013-04-29) C~~014-US2

	19	"RocketIO™ Transceiver User Guide", UG024 (v3.0), February 22, 2007 (156 pages).	☐
	20	SUCKOW E.H., "Basics of High-Performance SerDes Design: Part I", Fairchild Semiconductor International, downloaded 10/2011 (8 pages).	☐
	21	"Hard-Disk Basics" compiled from PCGUIDE.COM by Mehedi Hasan, February 12, 2005 (738 pages)	☐

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Examiner Signature	/HASSAN A KHAN/	Date Considered	09/20/2018

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	
	Filing Date	
	First Named Inventor	Yehuda Binder
	Art Unit	
	Examiner Name	
	Attorney Docket Number	BINDER-014-US2

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

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OR

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

☐ See attached certification statement.

☐ The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Yehuda Binder/	Date (YYYY-MM-DD)	~~2018-11-27~~ 2018-05-27
Name/Print	Yehuda Binder	Registration Number	73612

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Doc code :IDS
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT
(Not for submission under 37 CFR 1.99)

Application Number	~~10793634~~
Filing Date	~~2013-03-01~~
First Named Inventor	BINDER Yehuda
Art Unit	
Examiner Name	/HASSAN A KHAN/
Attorney Docket Number	BINDER-~~101A (2013-01-29)~~-014-US2

U.S.PATENTS						
Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	5724456		1998-03-03	Boyack , et al.	
	2	5781650		1998-14-07	Lobo , et al.	
	3	5812193		1998-22-09	Tomitaka , et al.	
	4	5818975		1998-06-10	Goodwin , et al.	
	5	5835616		1998-10-11	Lobo , et al.	
	6	5978519		1999-02-11	Bollman , et al.	
	7	5991456		1999-23-11	Rahman , et al.	
	8	6097470		2000-01-08	Buhr , et al.	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	~~15793964~~
	Filing Date	~~2013-03-01~~
	First Named Inventor	BINDER Yehuda
	Art Unit	
	Examiner Name	/HASSAN A KHAN/
	Attorney Docket Number	BINDER~~-19A (2013-04-29)-~~014-US2

	9	6101271		2000-08-08	Yamashita , et al.	
	10	6148092		2000-14-11	Qian; Richard	
	11	6151073		2000-21-11	Steinberg , et al.	
	12	6192149		2001-20-02	Eschbach , et al.	
	13	6249315		2001-19-06	Holm; Jack M.	
	14	6263113		2001-17-07	Abdel-Mottaleb , et al.	
	15	6268939		2001-31-07	Klassen , et al.	
	16	6393148		2002-21-05	Bhaskar; Ranjit	
	17	6421468		2002-16-07	Ratnakar , et al.	
	18	6438264		2002-20-08	Gallagher , et al.	
	19	6456732		2002-24-09	Kimbell , et al.	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	~~15733534~~
	Filing Date	~~2018-03-01~~
	First Named Inventor	BINDER Yehuda
	Art Unit	
	Examiner Name	/HASSAN A KHAN/
	Attorney Docket Number	BINDER~~.19A (2018-04-29) A~~014-US2

	20	6459436		2002-01-10	Kumada , et al.	
	21	6504951		2003-07-01	Luo , et al.	
	22	7466866		2008-16-12	Steinberg; Eran	
	23	5047952		1991-10-09	Kramer et al.	
	24	4414537		1983-08-11	Grimes; Gary J.	
	25	7702130		2010-20-04	Sung-Ho Im et al.	
	26	7598942		2009-06-10	Underkoffler et al.	
	27	5652649		1997-29-07	Conway et al.	
	28	7289645		2007-30-10	Yamamoto et al.	
	29	7821541		2010-26-10	Delean; Bruno	
	30	5454043		1995-26-09	Freeman; William T.	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	~~15733634~~
	Filing Date	~~2013-03-01~~
	First Named Inventor	BINDER Yehuda
	Art Unit	
	Examiner Name	/HASSAN A KHAN/
	Attorney Docket Number	BINDER~~-19A (2013-04-29)-1~~014-US2

	31	5046022		1991-03-09	Conway et al.	
	32	6931596		2005-16-08	Gutta et al.	
	33	6967565		2005-22-11	Lingemann; Ronald R.	
	34	6549616		2003-15-04	BINDER Yehuda	
	35	6216160		2001-10-04	Dichter; Carl R.	
	36	6108331		2000-22-08	Thompson; William H.	

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U.S.PATENT APPLICATION PUBLICATIONS

Examiner Initial*	Cite No	Publication Number	Kind Code1	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	20110222726		2011-15-09	Ruan; Xiang	
	2	20100211918		2010-19-08	Liang et al.	
	3	20070132725		2007-14-06	Kitaura; Masahiro	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	~~15793954~~
	Filing Date	~~2013-03-01~~
	First Named Inventor	BINDER Yehuda
	Art Unit	
	Examiner Name	/HASSAN A KHAN/
	Attorney Docket Number	BINDER~~-19A (2013-04-29)~~ 014-US2

	4	20120268373		2012-25-10	GRZESIAK; Grzegorz Pawet	
	5	20100295782		2010-25-11	BINDER Yehuda	
	6	20020194383		2002-19-12	Cohen et al.	
	7	20030099228		2003-29-05	Alcock, Martin	
	8	20030062990		2003-03-04	Schaeffer, et al.	
	9	20030112965		2003-19-06	McNamara et al.	
	10	20050010954		2005-13-01	BINDER Yehuda	
	11	20020039388		2002-04-04	Smart et al.	
	12	20020060617		2002-23-05	Walbeck et al.	
	13	20050180561		2005-18-08	Hazani, et al.	
	14	20050125083		2005-09-06	Kiko, Frederick J.	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	~~15723934~~
	Filing Date	~~2013-03-01~~
	First Named Inventor	BINDER Yehuda
	Art Unit	
	Examiner Name	/HASSAN A KHAN/
	Attorney Docket Number	BINDER=~~49A (2013-04-29) 4~~014-US2

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FOREIGN PATENT DOCUMENTS

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[1] See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. [2] Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). [3] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [4] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [5] Applicant is to place a check mark here if English language translation is attached.

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (**Not for submission under 37 CFR 1.99**)	Application Number	
	Filing Date	
	First Named Inventor	Yehuda Binder
	Art Unit	
	Examiner Name	
	Attorney Docket Number	BINDER-014-US2

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

☐ That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

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☐ See attached certification statement.

☐ The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Yehuda Binder/	Date (YYYY-MM-DD)	~~2018-11-27~~ 2018-05-27
Name/Print	Yehuda Binder	Registration Number	73612

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

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Doc code :IDS
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT
(Not for submission under 37 CFR 1.99)

Application Number	~~10753634~~
Filing Date	~~2015-03-01~~
First Named Inventor	BINDER Yehuda
Art Unit	
Examiner Name	/HASSAN A KHAN/
Attorney Docket Number	BINDER-~~101 (2015-04-03) 1~~-014-US2

U.S.PATENTS						
Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	5010399		1991-23-04	Goodman et al.	
	2	5621455		1997-15-04	Rogers et al.	
	3	7466844		2008-16-12	Arun Ramaswamy et al.	
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	7	7342212		2008-11-03	Mentzer et al.	
	8	6476372		2002-05-11	Merrill et al.	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	~~13703004~~
	Filing Date	~~2012-03-04~~
	First Named Inventor	BINDER Yehuda
	Art Unit	
	Examiner Name	/HASSAN A KHAN/
	Attorney Docket Number	BINDER~~.10A (2012-04-28) 1~~014-US2

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	~~15992221~~
	Filing Date	~~2018-03-01~~
	First Named Inventor	BINDER Yehuda
	Art Unit	
	Examiner Name	/HASSAN A KHAN/
	Attorney Docket Number	BINDER~~.19A (2018-04-29) 1~~014-US2

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	Application Number	~~15992221~~
	Filing Date	~~2018-05-30~~
	First Named Inventor	BINDER Yehuda
	Art Unit	
	Examiner Name	/HASSAN A KHAN/
	Attorney Docket Number	BINDER~~.49A (2018-04-29) 1~~014-US2

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	Application Number	~~15703004~~
	Filing Date	~~2018-03-01~~
	First Named Inventor	BINDER Yehuda
	Art Unit	
	Examiner Name	/HASSAN A KHAN/
	Attorney Docket Number	BINDER~~.19A (2013-04-29) 1~~014-US2

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U.S.PATENT APPLICATION PUBLICATIONS						
Examiner Initial*	Cite No	Publication Number	Kind Code1	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	20070112939		2007-17-05	Wilson; Brian B. ; et al.	
	2	20100201531		2010-12-08	Pakravan; Alireza ; et al.	
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	Application Number	~~15703064~~
	Filing Date	~~2013-03-01~~
	First Named Inventor	BINDER Yehuda
	Art Unit	
	Examiner Name	/HASSAN A KHAN/
	Attorney Docket Number	BINDER~~-19A (2013-04-29) 1~~ 014-US2

FOREIGN PATENT DOCUMENTS								
Examiner Initial*	Cite No	Foreign Document Number[3]	Country Code[2] i	Kind Code[4]	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T[5]
	1							☐
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Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]
	1	Publication number 1-587005-001-3 by Cisco Systems, Inc. (6/99) entitled: "Internetworking Technologies Handbook", Chapter 5: "Routing Basics", pages 5-1 to 5-10 (10 pages)	☐
	2	Publication number 1-587005-001-3 by Cisco Systems, Inc. (6/99) entitled: "Internetworking Technologies Handbook", Chapter 30: "Open System Interconnection Protocols" pages 30-1 to 30-10 (10 pages)	☐
	3	Publication number 1-587005-001-3 by Cisco Systems, Inc. (6/99) entitled: "Internetworking Technologies Handbook", Chapter 32: "IPv6" pages 32-1 to 32-6 (6 pages)	☐
	4	Publication number 1-587005-001-3 by Cisco Systems, Inc. (6/99) entitled: "Internetworking Technologies Handbook", Chapter 45: "Open System Interconnection Routing Protocol", pages 45-1 to 45-8 (8 pages)	☐
	5	Publication number 1-587005-001-3 by Cisco Systems, Inc. (6/99) entitled: "Internetworking Technologies Handbook", Chapter 51: "Security Technologies" pages 51-1 to 51-12 (12 pages)	☐
	6	IBM Corporation, International Technical Support Organization Redbook Documents No. SG24-4756-00 entitled: "Local Area Network Concepts and Products: LAN Operation Systems and management", 1st Edition May 1996 (216 pages)	☐
	7	IBM Corporation, International Technical Support Organization Redbook Document No. GG24-4338-00 entitled: "Introduction to Networking Technologies", 1st Edition April 1994 (220 pages)	☐

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	[redacted]
	Filing Date	[redacted]
	First Named Inventor	BINDER Yehuda
	Art Unit	
	Examiner Name	/HASSAN A KHAN/
	Attorney Docket Number	BINDER=[redacted] 014-US2

	8	IBM Corporation, International Technical Support Organization, Redbook Document No. SG24-2580-01 "IP Network Design Guide", 2nd Edition June 1999 (324 pages)	☐
	9	IBM Corporation, International Technical Support Organization, Redbook Document No. GG24-3376-07 "TCP/IP Tutorial and Technical Overview", ISBN 0738494682 8th Edition Dec. 2006 (1004 pages)	☐
	10	A slide-show by W. Steven Conner, Intel Corp. et al. entitled: "IEEE 802.11s Tutorial" presented at the IEEE 802 Plenary, Dallas on Nov. 13, 2006 (93 pages)	☐
	11	A slide-show by Eugen Borcoci of University Politehnica Bucharest, entitled: "Wireless Mesh Networks Technologies: Architectures, Protocols, Resource Management and Applications", presented in INFOWARE Conference on August 22-29th 2009 in Cannes, France (212 pages)	☐
	12	An IEEE Communication magazine paper by Joseph D. Camp and Edward W. Knightly of Electrical and Computer Engineering, Rice University, Houston, TX, USA, entitled: "The IEEE 802.11s Extended Service Set Mesh Networking Standard" (6 pages)	☐
	13	"IEEE 802.11g Offers Higher Data Rates and Longer Range" to Jim Zyren et al. by Intersil	☐
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	15	Publication by Cisco Systems, Inc. (6/99) entitled: "Internetworking Technologies Overview", Chapter 18: "Multiservice Access Technologies", pages 18-1 to 18-10 (18 pages)	☐
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	17	Home Gateway Initiative (HGI) document entitled: "Home Gateway Technical Requirements: Release 1", Version 1.0, 1 July 2006 (112 pages)	☐
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	~~15992221~~
	Filing Date	~~2018-05-31~~
	First Named Inventor	BINDER Yehuda
	Art Unit	
	Examiner Name	/HASSAN A KHAN/
	Attorney Docket Number	BINDER~~.104 (2018-04-29) 4~~014-US2

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	~~15/992,221~~
	Filing Date	~~2018-03-01~~
	First Named Inventor	BINDER Yehuda
	Art Unit	
	Examiner Name	/HASSAN A KHAN/
	Attorney Docket Number	BINDER~~-19A (2018-04-29) 1~~014-US2

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	39	Ben-Gurion University Publication entitled: "Chapter 9 – Feedforward Control" (pages 221-240) downloaded from http://www.bgu.ac.il/chem_eng/pages/Courses/oren%20courses/Chapter_9.pdf (20 pages)	☐
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	[redacted]
	Filing Date	[redacted]
	First Named Inventor	BINDER Yehuda
	Art Unit	
	Examiner Name	/HASSAN A KHAN/
	Attorney Docket Number	BINDER[redacted]014-US2

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	42	The Publication entitled: "Introduction to Fuzzy Control" by Marcelo Godoy Simoes (5 pages)	☐
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	44	SAE J1939-01 Surface Vehicle Standard entitled: "Recommended Practice for Control and Communication Network for On-Highway Equipment", Issued: 2000-09 (7 pages)	☐
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	46	The book entitled: "The Image Processing Handbook", Sixth Edition, by John C. Russ, from CRC Press ISBN: 978-1-4398-4063-4, 2011 (858 pages)	☐
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	48	The Brown University publication CS-99-11 entitled: "A survey of hand Posture and Gesture Recognition Techniques and Technology", by Joseph J. LaViola Jr., June 1999 (80 pages)	☐
	49	Cisco Validated Design document entitled: "Building Automation System over IP (BAS/IP) Design and Implementation Guide" by Cisco Systems and Johnson Controls, 15 August 2008, v8.1 (107 pages)	☐
	50	The article entitled:" Smart Homes for Older People: Positive Aging in a Digital World", by Quynh Lê, Hoang Boi Nguyen and Tony Barnett, published in Future Internet 2012, 4, 607-617; doi:10.3390/fi4020607 (11 pages)	☐
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	~~15/992,221~~
	Filing Date	~~2018-05-31~~
	First Named Inventor	BINDER Yehuda
	Art Unit	
	Examiner Name	/HASSAN A KHAN/
	Attorney Docket Number	BINDER~~.19A (2018-04-29) 1~~014-US2

EXAMINER SIGNATURE			
Examiner Signature	/HASSAN A KHAN/	Date Considered	09/20/2018

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	
	Filing Date	
	First Named Inventor	Yehuda Binder
	Art Unit	
	Examiner Name	
	Attorney Docket Number	BINDER-014-US2

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

☐ That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

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☐ See attached certification statement.

☐ The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Yehuda Binder/	Date (YYYY-MM-DD)	~~2016-11-27~~ 2018-05-27
Name/Print	Yehuda Binder	Registration Number	73612

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

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9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

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Doc code: IDS
Doc description: Information Disclosure Statement (IDS) Filed

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT
(Not for submission under 37 CFR 1.99)

Application Number	
Filing Date	
First Named Inventor	Yehuda Binder
Art Unit	
Examiner Name	/HASSAN A KHAN/
Attorney Docket Number	BINDER-014-US7

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	1	20030105389	A1	2003-06-05	Julianne Noonan	
	2	20070283005	A1	2007-12-06	Robert P. Beliles	
	3	20090198380	A1	2009-08-06	Scott Justin-Marl Friedman	
	4	20090224906	A1	2009-09-10	Lennart BALGARD	
	5	20100071053	A1	2010-03-18	Amir Ansari	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
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	Filing Date	
	First Named Inventor	Yehuda Binder
	Art Unit	
	Examiner Name	/HASSAN A KHAN/
	Attorney Docket Number	BINDER-014-US7

	6	20120079149	A1	2012-03-29	David C. Gelvin	
	7	20130091279	A1	2013-04-11	Wassim Haddad	
	8	20130308581	A1	2013-11-21	Ahmadreza (Reza) Rofougaran	
	9	20150046582	A1	2015-02-12	David C. Gelvin	
	10	20160062330	A1	2016-03-03	Yuuichi Abe	
	11	20160344745	A1	2016-11-24	Michael W. Johnson	
	12	20030009271	A1	2003-01-09	Susumu Akiyama	
	13	20060111825	A1	2006-05-25	Minoru Okada	
	14	20070021847	A1	2007-01-25	Akihiko Hyodo	
	15	20070198144	A1	2007-08-23	William Robert Norris	
	16	20080100428	A1	2008-05-01	Sherry D. Price	

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	First Named Inventor	Yehuda Binder
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	Attorney Docket Number	BINDER-014-US7

	17	20090138136	A1	2009-05-28	Akihiro Natsume	
	18	20100030421	A1	2010-02-04	Kentaro YOSHIMURA	
	19	20100211258	A1	2010-08-19	Kohei SAKURAI	
	20	20110153149	A1	2011-06-23	Hong Seok Jeon	
	21	20140215491	A1	2014-07-31	Sateesh K. Addepalli	
	22	20080307075	A1	2008-12-11	Urano; Takehiro ; et al.	
	23	20090089065	A1	2009-04-02	Buck; Markus ; et al.	
	24	20170272316	A1	2017-09-21	Johnson; Michael W. ; et al.	
	25	20050273505	A1	2005-12-08	Kim, Byeong-Woo	
	26	20060212194	A1	2006-09-21	Breed; David S.	
	27	20070096565	A1	2007-05-03	Breed; David S. ; et al.	

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	First Named Inventor	Yehuda Binder
	Art Unit	
	Examiner Name	/HASSAN A KHAN/
	Attorney Docket Number	BINDER-014-US7

	28	20070176740	A1	2007-08-02	Aubertin; Jean-Pierre ; et al.	
	29	20080129475	A1	2008-06-05	Breed; David S. ; et al.	
	30	20080136670	A1	2008-06-12	Tengler; Steve ; et al.	
	31	20100207754	A1	2010-08-19	Shostak; Oleksandr T. ; et al.	
	32	20130139440	A1	2013-06-06	WECHS; Martin	

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Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]
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	First Named Inventor	Yehuda Binder
	Art Unit	
	Examiner Name	/HASSAN A KHAN/
	Attorney Docket Number	BINDER-014-US7

EXAMINER SIGNATURE			
Examiner Signature	/HASSAN A KHAN/	Date Considered	09/20/2018

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (**Not for submission under 37 CFR 1.99)**	Application Number	
	Filing Date	
	First Named Inventor	Yehuda Binder
	Art Unit	
	Examiner Name	
	Attorney Docket Number	BINDER-014-US7

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

See attached certification statement.

The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Yehuda Binder/	Date (YYYY-MM-DD)	2018-05-27
Name/Print	Yehuda Binder	Registration Number	73612

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these record s.

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ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /H.A.K/

Bibliographic Data

Application No: 15/992,221

Foreign Priority claimed: ○ Yes ◉ No

35 USC 119 (a-d) conditions met: ☐ Yes ☑ No ☐ Met After Allowance

Verified and Acknowledged: /HASSAN A KHAN/ (Examiner's Signature) | (Initials)

Title: SYSTEM AND METHOD FOR SERVER BASED CONTROL

FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
05/30/2018	709	2456	BINDER-014-US7
RULE			

APPLICANTS

May Patents Ltd., Hod Hasharon, ISRAEL

INVENTORS

Yehuda BINDER Ramat Gan, ISRAEL

Benjamin MAYTAL Mevasseret Zion, ISRAEL

CONTINUING DATA

This application is a CON of 15361434 11/27/2016

15361434 is a DIV of 13733634 01/03/2013

13733634 has PRO of 61647034 05/15/2012

13733634 has PRO of 61637030 04/23/2012

13733634 has PRO of 61620129 04/04/2012

13733634 has PRO of 61584500 01/09/2012

FOREIGN APPLICATIONS

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May Patents Ltd. c/o Dorit Shem-Tov
P.O.B 7230
Ramat-Gan, 5217102
ISRAEL

FILING FEE RECEIVED

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Doc code :IDS
Doc description: Information Disclosure Statement (IDS) Filed

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT
(Not for submission under 37 CFR 1.99)

Application Number	~~12723634~~
Filing Date	~~2013-03-01~~
First Named Inventor	BINDER Yehuda
Art Unit	
Examiner Name	/HASSAN A KHAN/
Attorney Docket Number	BINDER ~~403 (2013-04-23) S~~ 014-US2

U.S.PATENTS						
Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	6862353		2005-01-03	Rabenko et al.	
	2	5510765		1996-23-04	Madau; Adrian	
	3	6934426		2005-23-08	Rich et al.	
	4	7843336		2010-30-11	Kucharyson; Richard P.	
	5	8115646		2012-14-02	Tanielian et al.	
	6	6452499		2002-17-09	Runge et al.	
	7	7027418		2006-11-04	Gan et al.	
	8	5274631		1993-28-12	Bhardwaj; Vinod K.	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	~~15703064~~
	Filing Date	~~2015-03-31~~
	First Named Inventor	BINDER Yehuda
	Art Unit	
	Examiner Name	/HASSAN A KHAN/
	Attorney Docket Number	BINDER~~.104 (2018-04-29) 5~~014-US2

	9	7010050		2006-07-03	Maryanka; Yair	
	10	6243571		2001-05-06	Bullock et al.	
	11	6069899		2000-30-05	Foley; Peter F.	
	12	5896443		1999-20-04	Dichter; Carl	
	13	3820110		1974-25-06	Henrich et al.	
	14	6473608		2002-29-10	Lehr et al.	

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	1	20040151305		2004-05-08	BINDER Yehuda et al.	
	2	20070164865		2007-19-07	Glasson et al.	
	3	20100100327		2010-22-04	Jensen; Thomas P.	

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	Filing Date	~~2013-03-01~~
	First Named Inventor	BINDER Yehuda
	Art Unit	
	Examiner Name	/HASSAN A KHAN/
	Attorney Docket Number	BINDER~~.19A (2013-04-29).5~~ 014-US2

	4	20070004449		2007-04-01	Sham; John C.K.		
	5	20050216302		2005-29-09	Raji et al.		
	6	20020166124		2002-07-11	Gurantz et al.		
	7	20020019966		2002-14-02	Yagil et al.		
	8	20030139151		2003-24-07	Lifshitz et al.		
	9	20040032902		2004-19-02	Koifman et al.		

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	Filing Date	~~2018-03-01~~
	First Named Inventor	BINDER Yehuda
	Art Unit	
	Examiner Name	/HASSAN A KHAN/
	Attorney Docket Number	BINDER~~-19A (2018-04-23)-5~~014-US2

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Examiner Signature	/HASSAN A KHAN/	Date Considered	09/20/2018

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	Examiner Name	
	Attorney Docket Number	BINDER-014-US2

CERTIFICATION STATEMENT

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☐ See attached certification statement.

☐ The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

SIGNATURE

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Signature	/Yehuda Binder/	Date (YYYY-MM-DD)	~~2018-11-27~~ 2018-05-27
Name/Print	Yehuda Binder	Registration Number	73612

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7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.

9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /H.A.K/

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	58	(US-20130201316-$ or US-20100030421-$ or US-20120303216-$ or US-20140188343-$ or US-20140236384-$ or US-20070076593-$ or US-20100211258-$ or US-20080100428-$ or US-20060111825-$ or US-20100148940-$ or US-20100201516-$ or US-20110035491-$ or US-20150046582-$ or US-20160062330-$ or US-20060217840-$ or US-20090198380-$ or US-20150295788-$ or US-20120253480-$ or US-20070283005-$ or US-20100071053-$ or US-20130091254-$ or US-20140286348-$ or US-20130091279-$ or US-20030105389-$ or US-20130139440-$ or US-20130308581-$).did. or (US-20110118888-$ or US-20080031139-$ or US-20080068156-$ or US-20080307075-$ or US-20170111158-$ or US-20090224906-$ or US-20090089065-$ or US-20170272316-$ or US-20080077425-$ or US-20040267385-$ or US-20180124181-$ or US-20050216302-$ or US-20180253069-$ or US-20080215391-$ or US-20030009271-$ or US-20140215491-$ or US-20110153149-$ or US-20090138136-$ or US-20070198144-$ or US-20070021847-$ or US-20160344745-$ or US-20110055292-$ or US-20110032952-$ or US-20070225873-$).did. or (US-8140658-$ or US-7844687-$ or US-7797367-$ or US-7020701-$ or US-6859831-$ or US-6832251-$ or US-6826607-$ or US-6735630-$).did.	US-PGPUB; USPAT	OR	OFF	2018/09/20 21:30
L2	13	1 and appliance	US-PGPUB; USPAT	OR	OFF	2018/09/20 21:30
L3	6	2 and (alternating or AC)	US-PGPUB; USPAT	OR	OFF	2018/09/20 21:30
L4	11	(US-20160062330-$ or US-20070283005-$ or US-20100071053-$ or US-20130091279-$ or US-20080307075-$ or US-20090089065-$ or US-20170272316-$ or US-20040267385-$ or US-20130139440-$ or US-20180253069-$ or US-20080215391-$).did.	US-PGPUB	OR	OFF	2018/09/20 21:33
L8	58	1 or 4	US-PGPUB; USPAT	OR	OFF	2018/09/20 21:33
L9	25724	smart with appliance	US-	OR	OFF	2018/09/20

			PGPUB; USPAT			21:34
L10	40382	smart with appliance	US-PGPUB; USPAT	OR	ON	2018/09/20 21:34
L11	1316	10 and (kitchen and food)	US-PGPUB; USPAT	OR	ON	2018/09/20 21:35
L12	997	10 and (kitchen and cook$4 and food)	US-PGPUB; USPAT	OR	ON	2018/09/20 21:35
L13	676	11 and (alternating or AC)	US-PGPUB; USPAT	OR	ON	2018/09/20 21:35
L14	652	13 and current	US-PGPUB; USPAT	OR	ON	2018/09/20 21:36
L15	356	14 and antenna	US-PGPUB; USPAT	OR	ON	2018/09/20 21:36
L16	351	15 and (relay or switch)	US-PGPUB; USPAT	OR	ON	2018/09/20 21:36
L17	23	16 and latch	US-PGPUB; USPAT	OR	ON	2018/09/20 21:36
L18	23	17 and wireless	US-PGPUB; USPAT	OR	ON	2018/09/20 21:36
L19	468	13 and (current with sensor)	US-PGPUB; USPAT	OR	ON	2018/09/20 21:37
L20	117	19 and actuator	US-PGPUB; USPAT	OR	ON	2018/09/20 21:37
L21	12	18 and actuator	US-PGPUB; USPAT	OR	ON	2018/09/20 21:37
L22	1	"9717949".pn.	US-PGPUB; USPAT	OR	ON	2018/09/20 21:42
L23	7	"20060166737"	US-PGPUB; USPAT	OR	ON	2018/09/20 21:42
L24	1	"20140072278"	US-PGPUB; USPAT	OR	ON	2018/09/20 21:42
L25	4	"12206766"	US-PGPUB; USPAT	OR	ON	2018/09/20 21:47
L26	4	"11930299"	US-PGPUB; USPAT	OR	ON	2018/09/20 21:48
L27	356	15 and wireless	US-PGPUB; USPAT	OR	ON	2018/09/20 22:53
L28	351	27 and sensor	US-	OR	ON	2018/09/20

			PGPUB; USPAT			22:53
L29	297	28 and relay	US-PGPUB; USPAT	OR	ON	2018/09/20 22:54
L30	6	4 and appliance	US-PGPUB; USPAT	OR	OFF	2018/09/20 22:57
L33	59	(US-20130201316-$ or US-20100030421-$ or US-20120303216-$ or US-20140188343-$ or US-20140236384-$ or US-20070076593-$ or US-20100211258-$ or US-20080100428-$ or US-20060111825-$ or US-20100148940-$ or US-20100201516-$ or US-20110035491-$ or US-20150046582-$ or US-20160062330-$ or US-20060217840-$ or US-20090198380-$ or US-20150295788-$ or US-20120253480-$ or US-20070283005-$ or US-20100071053-$ or US-20130091254-$ or US-20140286348-$ or US-20130091279-$ or US-20030105389-$ or US-20130139440-$ or US-20130308581-$).did. or (US-20110118888-$ or US-20080031139-$ or US-20080068156-$ or US-20080307075-$ or US-20170111158-$ or US-20090224906-$ or US-20090089065-$ or US-20170272316-$ or US-20080077425-$ or US-20040267385-$ or US-20180124181-$ or US-20050216302-$ or US-20180253069-$ or US-20080215391-$ or US-20030009271-$ or US-20140215491-$ or US-20110153149-$ or US-20090138136-$ or US-20070198144-$ or US-20070021847-$ or US-20160344745-$ or US-20110055292-$ or US-20110032952-$ or US-20070225873-$ or US-20160218884-$).did. or (US-8140658-$ or US-7844687-$ or US-7797367-$ or US-7020701-$ or US-6859831-$ or US-6832251-$ or US-6826607-$ or US-6735630-$).did.	US-PGPUB; USPAT	OR	OFF	2018/09/20 23:15
L34	3	33 and refrigerator	US-PGPUB; USPAT	OR	OFF	2018/09/20 23:15
L35	3	33 and (stove or oven)	US-PGPUB; USPAT	OR	OFF	2018/09/20 23:15
L36	2	"20130041519"	US-PGPUB; USPAT	OR	OFF	2018/09/21 00:08
L37	80	29 and solenoid	US-PGPUB; USPAT	OR	OFF	2018/09/21 00:08
L38	80	29 and (solenoid or SSR or (solid adj state adj relay) or (reed NEAR4 relay) or (relay NEAR5 (solidstate or solid$1state)) or (relay NEAR5 semiconductor))	US-PGPUB; USPAT	OR	OFF	2018/09/21 00:10
L41	6	(US-20170272316-$ or US-20180253069-$ or US-20160218884-$ or US-	US-PGPUB	OR	OFF	2018/09/21 00:29

		20110251807-$ or US-20120228952-$ or US-20140170275-$).did.				
L42	0	41 and (relay with latching)	US-PGPUB; USPAT	OR	OFF	2018/09/21 00:30
L43	1	41 and (relay with solenoid)	US-PGPUB; USPAT	OR	OFF	2018/09/21 00:30
L44	4	41 and (relay)	US-PGPUB; USPAT	OR	OFF	2018/09/21 00:30
L45	9637	relay with (latch$4)	US-PGPUB; USPAT	OR	OFF	2018/09/21 00:34
L46	55096	(switch or relay) with (latch$4)	US-PGPUB; USPAT	OR	OFF	2018/09/21 00:34
L47	650	46 and ((appliance) and (food or cook$4 or kitchen))	US-PGPUB; USPAT	OR	OFF	2018/09/21 00:34
L48	264	47 and solenoid	US-PGPUB; USPAT	OR	OFF	2018/09/21 00:34
L49	103	48 and wireless	US-PGPUB; USPAT	OR	OFF	2018/09/21 00:35
L50	1	"4521183".pn.	US-PGPUB; USPAT	OR	OFF	2018/09/21 00:44
L51	1	"6663009".pn.	US-PGPUB; USPAT	OR	OFF	2018/09/21 00:48
L52	1	"5167216".pn.	US-PGPUB; USPAT	OR	OFF	2018/09/21 00:49
L53	2	"20050098169"	US-PGPUB; USPAT	OR	OFF	2018/09/21 00:49
L54	2	"20130041519"	US-PGPUB; USPAT	OR	OFF	2018/09/21 00:57
L55	2	"20130041519"	US-PGPUB; USPAT	OR	OFF	2018/09/21 00:57
L56	1	"7657763".pn.	US-PGPUB; USPAT	OR	OFF	2018/09/21 00:58
L57	63444	((appliance) and (food or cook$4 or kitchen))	US-PGPUB; USPAT	OR	OFF	2018/09/21 01:00
L58	3220	57 and solenoid	US-PGPUB; USPAT	OR	OFF	2018/09/21 01:00
L59	1181	58 and wireless	US-PGPUB; USPAT	OR	OFF	2018/09/21 01:00
L60	95717	((appliance) and (food or cook$4 or	US-	OR	ON	2018/09/21

		kitchen))	PGPUB; USPAT			01:00
L61	4701	60 and solenoid	US-PGPUB; USPAT	OR	ON	2018/09/21 01:01
L62	1692	61 and wireless	US-PGPUB; USPAT	OR	ON	2018/09/21 01:01
L63	244	62 and (switch or relay or mechanism) with (latch$4)	US-PGPUB; USPAT	OR	ON	2018/09/21 01:01
L64	4	"13650100"	US-PGPUB; USPAT	OR	OFF	2018/09/21 01:08
L65	2	"20080029081"	US-PGPUB; USPAT	OR	OFF	2018/09/21 01:10
L66	6	("4756839" | "4813487" | "4979572" | "5351760" | "5992531" | "7303024").PN.	US-PGPUB; USPAT	OR	OFF	2018/09/21 01:11
L67	2	"20110170377" or "4756336".pn.	US-PGPUB; USPAT	OR	OFF	2018/09/21 01:59
L68	2	(US-20160218884-$ or US-20120325197-$).did.	US-PGPUB	OR	OFF	2018/09/21 03:17
L69	1	68 and (wireless with A12)	US-PGPUB; USPAT	OR	OFF	2018/09/21 03:17
L70	0	68 and (AC with A12)	US-PGPUB; USPAT	OR	OFF	2018/09/21 03:18
L71	2	68 and (AC)	US-PGPUB; USPAT	OR	OFF	2018/09/21 03:18
L72	1	68 and (AC with appliance)	US-PGPUB; USPAT	OR	OFF	2018/09/21 03:18
L73	9	(US-20170272316-$ or US-20180253069-$ or US-20160218884-$ or US-20110251807-$ or US-20120228952-$ or US-20140170275-$ or US-20150226439-$ or US-20120325197-$ or US-20090183729-$).did.	US-PGPUB	OR	OFF	2018/09/21 03:21
L74	1	73 and (AC with appliance)	US-PGPUB; USPAT	OR	OFF	2018/09/21 03:21
L75	7	73 and (AC)	US-PGPUB; USPAT	OR	OFF	2018/09/21 03:21
L76	2	73 and (alternating)	US-PGPUB; USPAT	OR	OFF	2018/09/21 03:24
L77	5833	(whirlpool and corporation).as.	US-PGPUB; USPAT	OR	OFF	2018/09/21 03:27
L78	2331	(whirlpool and corporation).aanm.	US-PGPUB;	OR	OFF	2018/09/21 03:27

			USPAT			
L79	6250	77 or 78	US-PGPUB; USPAT	OR	OFF	2018/09/21 03:27
L80	86	79 and (solenoid and wireless)	US-PGPUB; USPAT	OR	OFF	2018/09/21 03:27
L81	75	79 and (solenoid and appliance and wireless)	US-PGPUB; USPAT	OR	OFF	2018/09/21 03:27
L82	70	79 and (solenoid and appliance and food and wireless)	US-PGPUB; USPAT	OR	OFF	2018/09/21 03:28
L83	36	79 and (solenoid and appliance and antenna and food and wireless)	US-PGPUB; USPAT	OR	OFF	2018/09/21 03:28
L84	9	73 and ((electric or electricity or current or energy or power) with (bill$4 or consumption or us$4 or consum$4 or measur$4))	US-PGPUB; USPAT	OR	ON	2018/09/21 03:32
L85	8	73 and (alternating or AC)	US-PGPUB; USPAT	OR	ON	2018/09/21 03:32
L86	2	73 and ((alternating or AC) with appliance)	US-PGPUB; USPAT	OR	ON	2018/09/21 03:32
L87	112	ebrom.in.	US-PGPUB; USPAT	OR	ON	2018/09/21 03:40
L88	11	87 and (appliance with (AC or alternating))	US-PGPUB; USPAT	OR	ON	2018/09/21 03:40
L89	7	73 and (sensor with (electric or electricity or current or energy or power) with (bill$4 or consumption or us$4 or consum$4 or measur$4))	US-PGPUB; USPAT	OR	ON	2018/09/21 04:44
L90	5775	709/218.ccls.	US-PGPUB; USPAT	OR	ON	2018/09/21 05:25
L91	16552	H04L67/12.cpc.	US-PGPUB; USPAT	OR	ON	2018/09/21 05:25
L92	102574	B60K 31/00.cpc. B60K 31/18.cpc. B60Y2200/11.cpc. B60Y2200/12.cpc. B60Y2200/126.cpc. B60Y2200/13.cpc. B60Y2200/30.cpc. B60Y2200/40.cpc. B60Y2200/50.cpc. B60Y2200/90.cpc. G01C 21/00.cpc. G06Q2240/00.cpc. G07C 5/008.cpc. G08G 1/00.cpc.	US-PGPUB; USPAT	OR	ON	2018/09/21 05:26
L93	45	(maytal and benjamin).in.	US-PGPUB; USPAT	OR	ON	2018/09/21 05:27
L94	397	(binder and yehuda).in.	US-PGPUB; USPAT	OR	ON	2018/09/21 05:27
L95	57	(may and patents).aanm.	US-PGPUB; USPAT	OR	ON	2018/09/21 05:27

L96	48	(may and patents).as.	US-PGPUB; USPAT	OR	ON	2018/09/21 05:27
L97	437	L93 L94 L95 L96	US-PGPUB; USPAT	OR	ON	2018/09/21 05:27
L98	123485	90 or 91 or 92 or 97	US-PGPUB; USPAT	OR	ON	2018/09/21 05:28
L99	2	98 and (relay with solenoid with reed).clm.	US-PGPUB; USPAT	OR	ON	2018/09/21 05:28
S1	1	"13733634"	US-PGPUB; USPAT	ADJ	ON	2016/12/03 01:33
S2	7358	(actuator with sensor with network)	US-PGPUB; USPAT	ADJ	ON	2016/12/03 01:34
S3	161	(actuator with sensor with network with router)	US-PGPUB; USPAT	ADJ	ON	2016/12/03 01:34
S4	14	(actuator with sensor with network with router with (car or vehicle))	US-PGPUB; USPAT	ADJ	ON	2016/12/03 01:34
S5	1020	(actuator with sensor with network with (car or vehicle))	US-PGPUB; USPAT	ADJ	ON	2016/12/03 01:37
S6	535	S5 and (router or routing)	US-PGPUB; USPAT	ADJ	ON	2016/12/03 01:38
S7	147	S5 and (NAT or DHCP)	US-PGPUB; USPAT	ADJ	ON	2016/12/03 01:38
S8	54	S5 and (control adj2 logic)	US-PGPUB; USPAT	ADJ	ON	2016/12/03 01:39
S9	7358	(actuator with sensor with network)	US-PGPUB; USPAT	ADJ	ON	2016/12/03 01:48
S10	675	S9 and (piezoelectric$6 or (piezo$1electric$6))	US-PGPUB; USPAT	ADJ	ON	2016/12/03 01:49
S11	120	S10 and (network with (routing or router))	US-PGPUB; USPAT	ADJ	ON	2016/12/03 01:49
S12	58	S11 and (vehicle or car)	US-PGPUB; USPAT	ADJ	ON	2016/12/03 01:49
S13	21	(US-20130201316-$ or US-20100030421-$ or US-20120303216-$ or US-20140188343-$ or US-20140236384-$ or US-20070076593-$ or US-20100211258-$ or US-20080100428-$ or US-20060111825-$ or US-20100148940-$ or US-20100201516-$ or US-20110035491-$ or US-20150046582-$).did. or (US-8140658-$ or US-7844687-$ or US-7797367-$ or US-7020701-$ or US-	US-PGPUB; USPAT	ADJ	ON	2017/02/13 22:08

		6859831-$ or US-6832251-$ or US-6826607-$ or US-6735630-$).did.				
S14	21	S13 and actuator	US-PGPUB; USPAT	ADJ	ON	2017/02/13 22:08
S15	1	S13 and (actuator same router)	US-PGPUB; USPAT	ADJ	ON	2017/02/13 22:08
S16	200	(actuator same router same ((vehicle or car or automobile or transport) or (building)))	US-PGPUB; USPAT	ADJ	ON	2017/02/13 22:11
S17	119	(actuator same router same ((vehicle or car or automobile or transport) or (building))) same network	US-PGPUB; USPAT	ADJ	ON	2017/02/13 22:12
S18	110	(actuator same router same ((vehicle or car or automobile or transport) or (building))) same network same sensor	US-PGPUB; USPAT	ADJ	ON	2017/02/13 22:12
S19	76	(actuator same router same ((vehicle or car or automobile or transport) or (building))) same network same (sensor or control) same data	US-PGPUB; USPAT	ADJ	ON	2017/02/13 22:12
S20	68	(actuator same router same ((vehicle or car or automobile) or (building))) same network same (sensor or control) same data	US-PGPUB; USPAT	ADJ	ON	2017/02/13 22:13
S21	21	(actuator same router same ((vehicle or car or automobile) same (building))) same network same (sensor or control) same data	US-PGPUB; USPAT	ADJ	ON	2017/02/13 22:15
S22	21	actuator same router same (vehicle or car or automobile) same building same network same (sensor or control) same data	US-PGPUB; USPAT	ADJ	ON	2017/02/13 22:15
S23	47	S20 XOR S22	US-PGPUB; USPAT	ADJ	ON	2017/02/13 22:17
S24	1	(US-8195844-$).did.	USPAT	ADJ	ON	2017/02/13 22:36
S25	1	"20090083589"	USPAT	ADJ	ON	2017/02/13 22:36
S36	1	(US-20130201316-$).did.	US-PGPUB	ADJ	ON	2017/02/14 00:34
S37	520	(home with network) same sensor same gateway same network	US-PGPUB	ADJ	ON	2017/02/14 00:37
S38	222	(home with network) with sensor with gateway	US-PGPUB	ADJ	ON	2017/02/14 00:37
S39	4	(home with network) with sensor with gateway with command	US-PGPUB	ADJ	ON	2017/02/14 00:38
S40	22	(US-20130201316-$ or US-20100030421-$ or US-20120303216-$ or US-20140188343-$ or US-20140236384-$ or US-20070076593-$ or US-20100211258-$ or US-20080100428-$ or US-20060111825-$ or US-20100148940-$ or US-20100201516-$ or US-20110035491-$ or US-20150046582-$ or US-20160062330-$).did. or (US-8140658-$ or US-7844687-$ or US-7797367-$ or US-	US-PGPUB; USPAT	ADJ	ON	2017/02/14 03:23

		7020701-$ or US-6859831-$ or US-6832251-$ or US-6826607-$ or US-6735630-$).did.				
S41	21	S40 and (vehicle or vehical or automobile or car)	US-PGPUB; USPAT	ADJ	ON	2017/02/14 03:29
S42	21	S40 and (vehicle or vehical or automobile or car) and actuator	US-PGPUB; USPAT	ADJ	ON	2017/02/14 03:29
S43	15	S40 and (vehicle or vehical or automobile or car) and actuator and sensor and network and cellular and wireless	US-PGPUB; USPAT	ADJ	ON	2017/02/14 03:30
S44	15	S40 and (coupled)	US-PGPUB; USPAT	ADJ	ON	2017/02/14 03:35
S45	1	S40 and (router)	US-PGPUB; USPAT	ADJ	ON	2017/02/14 03:36
S46	832	(vehicle or car) with router with (control or server) with network	US-PGPUB; USPAT	ADJ	ON	2017/02/14 03:37
S47	11	(vehicle or car) with router with (control or server) with network with actuator	US-PGPUB; USPAT	ADJ	ON	2017/02/14 03:37
S48	2	"20090198380"	US-PGPUB; USPAT	ADJ	ON	2017/02/14 03:42
S49	1	"20060217840"	US-PGPUB; USPAT	ADJ	ON	2017/02/14 03:42
S50	7	(US-20160062330-$ or US-20090198380-$ or US-20060217840-$ or US-20150295788-$ or US-20160344745-$ or US-20150046582-$ or US-20100030421-$).did.	US-PGPUB	ADJ	ON	2017/02/17 04:34
S51	4	S50 and (actuator with sensor)	US-PGPUB; USPAT	ADJ	ON	2017/02/17 04:34
S52	4	S50 and (actuator)	US-PGPUB; USPAT	ADJ	ON	2017/02/17 04:36
S53	3	"13404575"	US-PGPUB; USPAT	ADJ	ON	2017/02/17 04:38
S54	2	S50 and (sensor with router)	US-PGPUB; USPAT	ADJ	ON	2017/02/17 04:39
S55	27	(US-20130201316-$ or US-20100030421-$ or US-20120303216-$ or US-20140188343-$ or US-20140236384-$ or US-20070076593-$ or US-20100211258-$ or US-20080100428-$ or US-20060111825-$ or US-20100148940-$ or US-20100201516-$ or US-20110035491-$ or US-20150046582-$ or US-20160062330-$ or US-20060217840-$ or US-20090198380-$ or US-20150295788-$ or US-20160344745-$ or US-	US-PGPUB; USPAT	ADJ	ON	2017/02/17 04:39

		20120253480-$).did. or (US-8140658-$ or US-7844687-$ or US-7797367-$ or US-7020701-$ or US-6859831-$ or US-6832251-$ or US-6826607-$ or US-6735630-$).did.				
S56	3	S55 and (sensor with router)	US-PGPUB; USPAT	ADJ	ON	2017/02/17 04:39
S57	319	(actuator with sensor with router)	US-PGPUB; USPAT	ADJ	ON	2017/02/17 04:40
S58	178	(actuator NEAR9 sensor NEAr9 router)	US-PGPUB; USPAT	ADJ	ON	2017/02/17 04:40
S59	125	(actuator with sensor with router with (command or signal or transmi$6 or data))	US-PGPUB; USPAT	ADJ	ON	2017/02/17 04:41
S60	7	(US-20160062330-$ or US-20090198380-$ or US-20060217840-$ or US-20150295788-$ or US-20160344745-$ or US-20150046582-$ or US-20100030421-$).did.	US-PGPUB	ADJ	ON	2017/02/17 21:05
S61	2	S60 and (router with (building or vehicle or car))	US-PGPUB; USPAT	ADJ	ON	2017/02/17 21:06
S62	2	S60 and (router with (building or vehicle or car) with sensor)	US-PGPUB; USPAT	ADJ	ON	2017/02/17 21:06
S63	524	(router with (building or vehicle or car) with sensor)	US-PGPUB; USPAT	ADJ	ON	2017/02/17 21:06
S64	96	(router near9 (building or vehicle or car) near5 sensor)	US-PGPUB; USPAT	ADJ	ON	2017/02/17 21:07
S65	28	(router near9 (building or vehicle or car) near9 sensor near9 network)	US-PGPUB; USPAT	ADJ	ON	2017/02/17 21:07
S66	1	(US-20130201316-$).did.	US-PGPUB	ADJ	ON	2017/02/17 21:11
S67	28	(US-20130201316-$ or US-20100030421-$ or US-20120303216-$ or US-20140188343-$ or US-20140236384-$ or US-20070076593-$ or US-20100211258-$ or US-20080100428-$ or US-20060111825-$ or US-20100148940-$ or US-20100201516-$ or US-20110035491-$ or US-20150046582-$ or US-20160062330-$ or US-20060217840-$ or US-20090198380-$ or US-20150295788-$ or US-20160344745-$ or US-20120253480-$ or US-20070283005-$).did. or (US-8140658-$ or US-7844687-$ or US-7797367-$ or US-7020701-$ or US-6859831-$ or US-6832251-$ or US-6826607-$ or US-6735630-$).did.	US-PGPUB; USPAT	ADJ	ON	2017/02/20 05:11
S68	27	S67 and (control with (actuator or sensor))	US-PGPUB; USPAT	ADJ	ON	2017/02/20 05:11
S69	22	S67 and (control NEAR0 (actuator or	US-	ADJ	ON	2017/02/20

		sensor))	PGPUB; USPAT			05:11
S70	26	S67 and (control NEAR9 (actuator or sensor))	US-PGPUB; USPAT	ADJ	ON	2017/02/20 05:11
S71	9	S67 and (command NEAR9 (actuator or sensor))	US-PGPUB; USPAT	ADJ	ON	2017/02/20 05:15
S72	2	(US-20160062330-$ or US-20070283005-$).did.	US-PGPUB	ADJ	ON	2017/02/20 06:05
S73	1	S72 and ((additional or extra or second or third) with sensor)	US-PGPUB	ADJ	ON	2017/02/20 06:29
S74	28	(US-20130201316-$ or US-20100030421-$ or US-20120303216-$ or US-20140188343-$ or US-20140236384-$ or US-20070076593-$ or US-20100211258-$ or US-20080100428-$ or US-20060111825-$ or US-20100148940-$ or US-20100201516-$ or US-20110035491-$ or US-20150046582-$ or US-20160062330-$ or US-20060217840-$ or US-20090198380-$ or US-20150295788-$ or US-20160344745-$ or US-20120253480-$ or US-20070283005-$).did. or (US-8140658-$ or US-7844687-$ or US-7797367-$ or US-7020701-$ or US-6859831-$ or US-6832251-$ or US-6826607-$ or US-6735630-$).did.	US-PGPUB; USPAT	ADJ	ON	2017/02/20 06:30
S75	12	S74 and ((additional or extra or second or third) with sensor)	US-PGPUB	ADJ	ON	2017/02/20 06:31
S76	2	S72 and ((more) with sensor)	US-PGPUB	ADJ	ON	2017/02/20 06:32
S77	5	S74 and piezoelectric	US-PGPUB	ADJ	ON	2017/02/20 06:43
S78	2	S72 and (IP or address or internet or protocol)	US-PGPUB	ADJ	ON	2017/02/20 06:56
S79	2	S74 and (DHCP and (IPv4 or IPv6))	US-PGPUB	ADJ	ON	2017/02/20 07:02
S80	146	(control$6 with (sensor or actuator) with network) and (DHCP and (IPv4 or IPv6))	US-PGPUB	ADJ	ON	2017/02/20 07:04
S81	69	(control$6 with (sensor or actuator) with network) and (DHCP with (IPv4 or IPv6))	US-PGPUB	ADJ	ON	2017/02/20 07:04
S82	1	(US-20130201316-$).did.	US-PGPUB	ADJ	ON	2017/02/20 07:12
S83	36	S81 and zigbee	US-PGPUB	ADJ	ON	2017/02/20 07:21
S84	9	S81 and zigbee and (temperature with sensor)	US-PGPUB	ADJ	ON	2017/02/20 07:22
S85	36	S81 and zigbee and (sensor)	US-PGPUB	ADJ	ON	2017/02/20 07:22
S86	15	S81 and zigbee and (temperature)	US-PGPUB	ADJ	ON	2017/02/20 07:22
S87	12	S81 and zigbee and (temperature) and (DHCP with assign$6)	US-PGPUB	ADJ	ON	2017/02/20 07:23
S88	3	(US-20120253480-$ or US-20100071053-$ or US-20070283005-$).did.	US-PGPUB	ADJ	ON	2017/02/21 02:26

S89	1	S88 and (IP with assign$6)	US-PGPUB; USPAT	ADJ	ON	2017/02/21 02:28
S90	3	S88 and (power)	US-PGPUB; USPAT	ADJ	ON	2017/02/21 02:34
S91	32	(US-20130201316-$ or US-20100030421-$ or US-20120303216-$ or US-20140188343-$ or US-20140236384-$ or US-20070076593-$ or US-20100211258-$ or US-20080100428-$ or US-20060111825-$ or US-20100148940-$ or US-20100201516-$ or US-20110035491-$ or US-20150046582-$ or US-20160062330-$ or US-20060217840-$ or US-20090198380-$ or US-20150295788-$ or US-20160344745-$ or US-20120253480-$ or US-20070283005-$ or US-20100071053-$ or US-20130091254-$ or US-20140286348-$ or US-20130091279-$).did. or (US-8140658-$ or US-7844687-$ or US-7797367-$ or US-7020701-$ or US-6859831-$ or US-6832251-$ or US-6826607-$ or US-6735630-$).did.	US-PGPUB; USPAT	ADJ	ON	2017/02/21 02:35
S92	15493	(router with power)	US-PGPUB; USPAT	ADJ	ON	2017/02/21 02:36
S93	2	S91 and (router with power)	US-PGPUB; USPAT	ADJ	ON	2017/02/21 02:36
S94	1606	(router with power with (case or box or inside or enclosure or casing))	US-PGPUB; USPAT	ADJ	ON	2017/02/21 02:36
S95	578	(router NEAR9 power NEAR9 (case or box or inside or enclosure or casing))	US-PGPUB; USPAT	ADJ	ON	2017/02/21 02:37
S96	587	(router NEAR9 power NEAR9 (housed or enclos$5 or case or box or inside or enclosure or casing))	US-PGPUB; USPAT	ADJ	ON	2017/02/21 02:37
S97	17	(router NEAR9 power NEAR9 (housed or enclos$5 or case or box or inside or enclosure or casing) NEAR9 (AC or DC))	US-PGPUB; USPAT	ADJ	ON	2017/02/21 02:37
S98	17	S91 and (light with sensor)	US-PGPUB; USPAT	ADJ	ON	2017/02/21 03:05
S99	0	S88 and (light with (invisible or visible or infrared, ultraviolet, xrays or "x-rays" or (x adj2 rays) or gamma))	US-PGPUB	ADJ	ON	2017/02/21 03:19
S100	5	S91 and (light with (invisible or visible or infrared, ultraviolet, xrays or "x-rays" or (x adj2 rays) or gamma))	US-PGPUB	ADJ	ON	2017/02/21 03:19
S101	5	S91 and (light NEAR9 (invisible or visible or infrared, ultraviolet, xrays or "x-rays" or (x adj2 rays) or gamma))	US-PGPUB	ADJ	ON	2017/02/21 03:20
S102	128	((actuator with light) NEAR9 (invisible or visible or infrared, ultraviolet, xrays or "x-rays" or (x adj2 rays) or gamma))	US-PGPUB	ADJ	ON	2017/02/21 03:22
S103	79	((actuator NEAR5 light) NEAR9 (invisible	US-	ADJ	ON	2017/02/21

		or visible or infrared, ultraviolet, xrays or "x-rays" or (x adj2 rays) or gamma))	PGPUB			03:23
S104	6	(sensor with (actuator NEAR5 light) NEAR9 (invisible or visible or infrared, ultraviolet, xrays or "x-rays" or (x adj2 rays) or gamma))	US-PGPUB	ADJ	ON	2017/02/21 03:23
S105	1	(sensor with (actuator NEAR2 light) NEAR9 (invisible or visible or infrared, ultraviolet, xrays or "x-rays" or (x adj2 rays) or gamma))	US-PGPUB	ADJ	ON	2017/02/21 03:25
S106	21	((actuator NEAR2 light) NEAR9 (invisible or visible or infrared, ultraviolet, xrays or "x-rays" or (x adj2 rays) or gamma))	US-PGPUB	ADJ	ON	2017/02/21 03:25
S107	1	S106 and invisible	US-PGPUB	ADJ	ON	2017/02/21 03:37
S108	1	S106 and (nonvisible or "non-visible" or invisible)	US-PGPUB	ADJ	ON	2017/02/21 03:38
S109	12	S106 and (LED or SSL or (discharge adj2 lamp) or (flourescent adj2 lamp) or PLED or (laser near5 diode))	US-PGPUB	ADJ	ON	2017/02/21 03:50
S110	10	S106 and (diode or SSL or (discharge adj2 lamp) or (flourescent adj2 lamp) or PLED or (laser near5 diode))	US-PGPUB	ADJ	ON	2017/02/21 03:50
S111	10	S106 and (diode or (discharge adj2 lamp) or (flourescent adj2 lamp) or PLED or (laser near5 diode))	US-PGPUB	ADJ	ON	2017/02/21 03:50
S112	4	((actuator NEAR2 light NEAR5 (discharge or emit)) NEAR9 (invisible or visible or infrared, ultraviolet, xrays or "x-rays" or (x adj2 rays) or gamma))	US-PGPUB	ADJ	ON	2017/02/21 05:29
S113	58	(actuator NEAR2 light NEAR5 (discharge or emit))	US-PGPUB	ADJ	ON	2017/02/21 05:30
S114	4	(actuator NEAR2 light NEAR5 (discharge or emit) NEAR9 visible)	US-PGPUB	ADJ	ON	2017/02/21 05:30
S115	5	(actuator NEAR2 light NEAR5 (discharge or emit) with sensor)	US-PGPUB	ADJ	ON	2017/02/21 05:31
S116	1605	((Frequency adj3 Division adj3 Multiplexing) or FDM) with power with (communication or signal or transmission)	US-PGPUB	ADJ	ON	2017/02/21 05:48
S117	1	((Frequency adj3 Division adj3 Multiplexing) or FDM) with power with (communication or signal or transmission) with band with splitter	US-PGPUB	ADJ	ON	2017/02/21 05:48
S118	34	(US-20130201316-$ or US-20100030421-$ or US-20120303216-$ or US-20140188343-$ or US-20140236384-$ or US-20070076593-$ or US-20100211258-$ or US-20080100428-$ or US-20060111825-$ or US-20100148940-$ or US-20100201516-$ or US-20110035491-$ or US-20150046582-$ or US-20160062330-$ or US-20060217840-$ or US-20090198380-$ or US-20150295788-$ or US-20160344745-$ or US-20120253480-$ or US-20070283005-$ or US-20100071053-$ or US-20130091254-$ or US-20140286348-$ or US-	US-PGPUB; USPAT	ADJ	ON	2017/02/21 05:54

		20130091279-$ or US-20030105389-$ or US-20130139440-$).did. or (US-8140658-$ or US-7844687-$ or US-7797367-$ or US-7020701-$ or US-6859831-$ or US-6832251-$ or US-6826607-$ or US-6735630-$).did.				
S119	13	S118 and splitter	US-PGPUB; USPAT	ADJ	ON	2017/02/21 05:54
S120	13	S118 and splitter and frequency	US-PGPUB; USPAT	ADJ	ON	2017/02/21 05:54
S121	1	S118 and (splitter same frequency)	US-PGPUB; USPAT	ADJ	ON	2017/02/21 05:55
S122	234	(power with data with splitter with frequency)	US-PGPUB; USPAT	ADJ	ON	2017/02/21 05:56
S123	1	(US-20130201316-$).did.	US-PGPUB	ADJ	ON	2017/02/21 10:03
S124	462	(high adj2 pass adj2 filter) and (low adj2 pass adj2 filter) and (FDMA or (frequency near5 division near5 multiple near5 access))	US-PGPUB	ADJ	ON	2017/02/21 10:07
S125	261	(high adj2 pass adj2 filter) and (low adj2 pass adj2 filter) and (FDMA or (frequency near5 division near5 multiple near5 access)) and (power near5 (band or frequency))	US-PGPUB	ADJ	ON	2017/02/21 10:08
S126	302	(high adj2 pass adj2 filter) and (low adj2 pass adj2 filter) and (FDMA or (frequency near5 division near5 multiple near5 access)) and (power near5 (band or frequency or channel))	US-PGPUB	ADJ	ON	2017/02/21 10:08
S127	273	(high adj2 pass adj2 filter) and (low adj2 pass adj2 filter) and (FDMA or (frequency near5 division near5 multiple near5 access)) and (power near5 (band or frequency or channel)) and ((data or communication) near5 (channel or band or frequency))	US-PGPUB	ADJ	ON	2017/02/21 10:09
S128	112	(high adj2 pass adj2 filter) and (low adj2 pass adj2 filter) and (FDMA or (frequency near5 division near5 multiple near5 access)) and (power near5 (band or frequency or channel)) and ((data or communication) near5 (channel or band or frequency)) and transformer and capacitor	US-PGPUB	ADJ	ON	2017/02/21 10:10
S129	88	(high adj2 pass adj2 filter) and (low adj2 pass adj2 filter) and (FDMA or (frequency near5 division near5 multiple near5 access)) and (power near5 (band or frequency or channel)) and ((data or communication) near5 (channel or band or frequency)) and transformer and capacitor and sensor	US-PGPUB	ADJ	ON	2017/02/21 10:10
S130	41	(high adj2 pass adj2 filter) and (low adj2 pass adj2 filter) and (FDMA or (frequency near5 division near5 multiple near5	US-PGPUB	ADJ	ON	2017/02/21 10:13

		access)) and (power near5 (band or frequency or channel)) and ((data or communication) near5 (channel or band or frequency)) and transformer and capacitor and sensor and (split or splits or splitter)				
S131	31	(high adj2 pass adj2 filter) and (low adj2 pass adj2 filter) and (FDMA or (frequency near5 division near5 multiple near5 access)) and (power near5 (band or frequency or channel)) and ((data or communication) near5 (channel or band or frequency)) and (transformer with capacitor with (windings or wirings or coils))	US-PGPUB	ADJ	ON	2017/02/21 10:15
S132	3	(high adj2 pass adj2 filter) and (low adj2 pass adj2 filter) and (FDMA or (frequency near5 division near5 multiple near5 access)) and (power near5 (band or frequency or channel)) and ((data or communication) near5 (channel or band or frequency)) and (transformer with capacitor with (windings or wirings or coils)) and sensor and (split or splits or splitter)	US-PGPUB	ADJ	ON	2017/02/21 10:19
S133	239	(high adj2 pass adj2 filter) and (low adj2 pass adj2 filter) and (FDMA or (frequency near5 division near5 multiple near5 access)) and (power near3 (band or frequency or channel)) and ((data or communication) near5 (channel or band or frequency))	US-PGPUB	ADJ	ON	2017/02/21 10:34
S134	262	(high adj2 pass adj2 filter) and (low adj2 pass adj2 filter) and (FDMA or (frequency near5 division near5 multiple near5 access)) and (power near5 (modula$4 near5 band or frequency or channel)) and ((data or communication) near5 (channel or band or frequency))	US-PGPUB	ADJ	ON	2017/02/21 10:35
S135	45	(high adj2 pass adj2 filter) and (low adj2 pass adj2 filter) and (FDMA or (frequency near5 division near5 multiple near5 access)) and (power near5 modula$4 near5 (band or frequency or channel)) and ((data or communication) near5 (channel or band or frequency))	US-PGPUB	ADJ	ON	2017/02/21 10:35
S136	1	(high adj2 pass adj2 filter) and (low adj2 pass adj2 filter) and (FDMA or (frequency near5 division near5 multiple near5 access)) and (power near5 modula$4 near5 (band or frequenc$4 or channel) near5 (different or distinct or seperate or unique or other or another)) and ((data or communication) near5 (channel or band or frequency))	US-PGPUB	ADJ	ON	2017/02/21 10:51
S137	57	(high adj2 pass adj2 filter) and (low adj2 pass adj2 filter) and (FDMA or (frequency near5 division near5 multiple near5 access)) and (power near5 (band or frequenc$4 or channel) near5 (different or distinct or seperate)) and ((data or communication) near5 (channel or band	US-PGPUB	ADJ	ON	2017/02/21 11:00

		or frequency))				
S138	0	(high adj2 pass adj2 filter) and (low adj2 pass adj2 filter) and (FDMA or (frequency near5 division near5 multiple near5 access)) and (power near5 (band or frequenc$4 or channel) near5 (different or distinct or seperate)) and ((data or communication) near5 (channel or band or frequency)) and (split or splitter or divide) and (transformer with capacitor with (windings or coils))	US-PGPUB	ADJ	ON	2017/02/21 11:01
S139	17	(high adj2 pass adj2 filter) and (low adj2 pass adj2 filter) and (FDMA or (frequency near5 division near5 multiple near5 access)) and (power near5 (band or frequenc$4 or channel) near5 (different or distinct or seperate)) and ((data or communication) near5 (channel or band or frequency)) and (split or splitter or divide) and (transformer with capacitor)	US-PGPUB	ADJ	ON	2017/02/21 11:01
S140	1	(US-20130308581-$).did.	US-PGPUB	ADJ	ON	2017/02/21 11:09
S141	1	(US-20110118888-$).did.	US-PGPUB	ADJ	ON	2017/02/21 11:28
S142	2	(US-20160062330-$ or US-20070283005-$).did.	US-PGPUB	ADJ	ON	2017/02/21 11:49
S143	0	S142 and appliance	US-PGPUB; USPAT	ADJ	ON	2017/02/21 11:49
S144	1	(US-20130201316-$).did.	US-PGPUB	ADJ	ON	2017/02/21 12:06
S145	205	(yehuda and binder).in.	US-PGPUB	ADJ	ON	2017/02/21 12:24
S146	26	(benjamin and maytal).in.	US-PGPUB	ADJ	ON	2017/02/21 12:25
S147	26	(may and patents).as.	US-PGPUB	ADJ	ON	2017/02/21 12:25
S148	25	(may and patents).aanm.	US-PGPUB	ADJ	ON	2017/02/21 12:25
S149	8	S147 and S148	US-PGPUB	ADJ	ON	2017/02/21 12:25
S150	1	S145 and S146	US-PGPUB	ADJ	ON	2017/02/21 12:25
S151	43	S147 or S148	US-PGPUB	ADJ	ON	2017/02/21 12:26
S152	230	S145 or S146	US-PGPUB	ADJ	ON	2017/02/21 12:26
S153	230	S151 or S152	US-PGPUB	ADJ	ON	2017/02/21 12:26
S154	17	S153 and piezoelectric.clm.	US-PGPUB	ADJ	ON	2017/02/21 12:26
S155	1	S153 and (vehicle and router and actuator).clm.	US-PGPUB	ADJ	ON	2017/02/21 12:27
S156	7130	H04L67/12.cpc.	US-PGPUB	ADJ	ON	2017/02/21 12:27
S157	993	348/77.ccls.	US-	ADJ	ON	2017/02/21

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			PGPUB			12:27
S158	374	700/28.ccls.	US-PGPUB	ADJ	ON	2017/02/21 12:27
S159	148	700/22.ccls.	US-PGPUB	ADJ	ON	2017/02/21 12:28
S160	1455	709/218.ccls.	US-PGPUB	ADJ	ON	2017/02/21 12:28
S161	2	"20130080642"	US-PGPUB; USPAT	ADJ	ON	2017/06/30 12:25
S162	1	"14499166"	US-PGPUB; USPAT	ADJ	ON	2017/06/30 12:27
S163	13	(US-20160062330-$ or US-20090198380-$ or US-20150295788-$ or US-20160344745-$ or US-20150046582-$ or US-20100030421-$ or US-20070283005-$ or US-20130308581-$ or US-20110118888-$ or US-20130139440-$ or US-20100071053-$ or US-20030105389-$ or US-20130091279-$).did.	US-PGPUB	ADJ	ON	2017/07/05 10:43
S164	2	S163 and (sensor and actuator and router)	US-PGPUB; USPAT	ADJ	ON	2017/07/05 10:43
S165	36	(US-20130201316-$ or US-20100030421-$ or US-20120303216-$ or US-20140188343-$ or US-20140236384-$ or US-20070076593-$ or US-20100211258-$ or US-20080100428-$ or US-20060111825-$ or US-20100148940-$ or US-20100201516-$ or US-20110035491-$ or US-20150046582-$ or US-20160062330-$ or US-20060217840-$ or US-20090198380-$ or US-20150295788-$ or US-20160344745-$ or US-20120253480-$ or US-20070283005-$ or US-20100071053-$ or US-20130091254-$ or US-20140286348-$ or US-20130091279-$ or US-20030105389-$ or US-20130139440-$).did. or (US-20130308581-$ or US-20110118888-$).did. or (US-8140658-$ or US-7844687-$ or US-7797367-$ or US-7020701-$ or US-6859831-$ or US-6832251-$ or US-6826607-$ or US-6735630-$).did.	US-PGPUB; USPAT	ADJ	ON	2017/07/05 10:44
S166	3	S165 and (sensor and actuator and router)	US-PGPUB; USPAT	ADJ	ON	2017/07/05 10:44
S168	7	S165 and (sensor same network same router)	US-PGPUB; USPAT	ADJ	ON	2017/07/05 10:45
S169	36	(US-20130201316-$ or US-20100030421-$ or US-20120303216-$ or US-20140188343-$ or US-20140236384-$ or US-20070076593-$ or US-20100211258-$ or US-20080100428-$ or US-20060111825-$ or US-20100148940-$ or US-20100201516-$ or US-20110035491-$ or US-20150046582-$ or US-20160062330-$ or US-20060217840-$ or	US-PGPUB; USPAT	ADJ	ON	2017/07/05 11:20

		US-20090198380-$ or US-20150295788-$ or US-20160344745-$ or US-20120253480-$ or US-20070283005-$ or US-20100071053-$ or US-20130091254-$ or US-20140286348-$ or US-20130091279-$ or US-20030105389-$ or US-20130139440-$).did. or (US-20130308581-$ or US-20110118888-$).did. or (US-8140658-$ or US-7844687-$ or US-7797367-$ or US-7020701-$ or US-6859831-$ or US-6832251-$ or US-6826607-$ or US-6735630-$).did.				
S170	7	S169 and (sensor same network same router)	US-PGPUB; USPAT	ADJ	ON	2017/07/05 11:20
S171	3	S170 and actuator	US-PGPUB; USPAT	ADJ	ON	2017/07/05 11:20
S172	24	S169 and actuator	US-PGPUB; USPAT	ADJ	ON	2017/07/05 11:21
S173	2	(US-20160062330-$ or US-20070283005-$).did.	US-PGPUB	OR	OFF	2017/07/19 19:14
S174	1	(US-20130201316-$).did.	US-PGPUB	OR	OFF	2017/07/20 00:24
S175	1	"20120079149"	US-PGPUB	OR	OFF	2017/07/20 00:29
S176	1	"20120079149"	US-PGPUB	OR	OFF	2017/07/20 06:37
S177	1	S176 and ((sensor or actuator) with router)	US-PGPUB	OR	OFF	2017/07/20 06:37
S178	1	S176 and (router)	US-PGPUB	OR	OFF	2017/07/20 06:37
S179	0	S176 and (commands with router)	US-PGPUB	OR	OFF	2017/07/20 06:41
S180	37	(US-20130201316-$ or US-20100030421-$ or US-20120303216-$ or US-20140188343-$ or US-20140236384-$ or US-20070076593-$ or US-20100211258-$ or US-20080100428-$ or US-20060111825-$ or US-20100148940-$ or US-20100201516-$ or US-20110035491-$ or US-20150046582-$ or US-20160062330-$ or US-20060217840-$ or US-20090198380-$ or US-20150295788-$ or US-20160344745-$ or US-20120253480-$ or US-20070283005-$ or US-20100071053-$ or US-20130091254-$ or US-20140286348-$ or US-20130091279-$ or US-20030105389-$ or US-20130139440-$).did. or (US-20130308581-$ or US-20110118888-$ or US-20120079149-$).did. or (US-8140658-$ or US-7844687-$ or US-7797367-$ or US-7020701-$ or US-6859831-$ or US-6832251-$ or US-6826607-$ or US-6735630-$).did.	US-PGPUB; USPAT	OR	OFF	2017/07/20 06:41
S181	1	S180 and (commands with router)	US-PGPUB	OR	OFF	2017/07/20 06:41

S182	2	(actuator with commands with router)	US-PGPUB	OR	OFF	2017/07/20 06:42
S183	25	(sensor with commands with router)	US-PGPUB	OR	OFF	2017/07/20 06:42
S184	9	(sensor NEAR9 commands NEAR9 router)	US-PGPUB	OR	OFF	2017/07/20 06:42
S185	3	S184 and actuator	US-PGPUB	OR	OFF	2017/07/20 06:54
S186	3	(US-20160062330-$ or US-20100071053-$ or US-20070283005-$).did.	US-PGPUB	OR	OFF	2017/07/20 09:43
S192	3	(US-20160062330-$ or US-20100071053-$ or US-20070283005-$).did.	US-PGPUB	OR	OFF	2017/07/20 09:45
S193	3	S192 and address	US-PGPUB	OR	OFF	2017/07/20 09:45
S194	0	S192 and ((unique or individual or distinct or separate) with address)	US-PGPUB	OR	OFF	2017/07/20 09:46
S195	14	(US-20160062330-$ or US-20090198380-$ or US-20150295788-$ or US-20160344745-$ or US-20150046582-$ or US-20100030421-$ or US-20070283005-$ or US-20130308581-$ or US-20110118888-$ or US-20130139440-$ or US-20100071053-$ or US-20030105389-$ or US-20130091279-$ or US-20120079149-$).did.	US-PGPUB	OR	OFF	2017/07/20 12:16
S200	14	(US-20160062330-$ or US-20090198380-$ or US-20150295788-$ or US-20160344745-$ or US-20150046582-$ or US-20100030421-$ or US-20070283005-$ or US-20130308581-$ or US-20110118888-$ or US-20130139440-$ or US-20100071053-$ or US-20030105389-$ or US-20130091279-$ or US-20120079149-$).did.	US-PGPUB	OR	OFF	2017/07/20 12:17
S201	12	S200 and power	US-PGPUB	OR	OFF	2017/07/20 12:17
S202	2	S200 and (power with (socket or port or connector))	US-PGPUB	OR	OFF	2017/07/20 12:17
S203	3	S200 and (power with (AC or DC))	US-PGPUB	OR	OFF	2017/07/20 12:18
S204	1	(US-20130201316-$).did.	US-PGPUB	OR	OFF	2017/07/20 12:23
S205	0	S204 and medical	USPAT	OR	OFF	2017/07/20 12:23
S206	0	S204 and medicine	USPAT	OR	OFF	2017/07/20 12:23
S207	0	S204 and power	USPAT	OR	OFF	2017/07/20 12:23
S208	0	S204 and actuator	USPAT	OR	OFF	2017/07/20 12:23
S209	14	S200 and sensor	US-PGPUB	OR	OFF	2017/07/20 12:23
S210	12	S200 and power	US-PGPUB	OR	OFF	2017/07/20 12:23
S212	1	S204 and medical	US-PGPUB	OR	OFF	2017/07/20 12:23

S213	5	S201 and (AC or DC)	US-PGPUB	OR	OFF	2017/07/20 12:27
S214	1	(US-20130201316-$).did.	US-PGPUB	OR	OFF	2017/07/20 14:03
S215	14	(US-20160062330-$ or US-20090198380-$ or US-20150295788-$ or US-20160344745-$ or US-20150046582-$ or US-20100030421-$ or US-20070283005-$ or US-20130308581-$ or US-20110118888-$ or US-20130139440-$ or US-20100071053-$ or US-20030105389-$ or US-20130091279-$ or US-20120079149-$).did.	US-PGPUB	OR	OFF	2017/07/20 15:03
S220	14	(US-20160062330-$ or US-20090198380-$ or US-20150295788-$ or US-20160344745-$ or US-20150046582-$ or US-20100030421-$ or US-20070283005-$ or US-20130308581-$ or US-20110118888-$ or US-20130139440-$ or US-20100071053-$ or US-20030105389-$ or US-20130091279-$ or US-20120079149-$).did.	US-PGPUB	OR	OFF	2017/07/20 15:05
S225	5	S220 and battery	US-PGPUB	OR	OFF	2017/07/20 15:06
S226	12	S220 and network	US-PGPUB	OR	OFF	2017/07/20 15:06
S227	3	S220 and (data with paths)	US-PGPUB	OR	OFF	2017/07/20 15:06
S228	2	S220 and (router with port)	US-PGPUB	OR	OFF	2017/07/20 15:16
S229	8	S220 and (embed or embedded or inside)	US-PGPUB	OR	OFF	2017/07/20 15:40
S230	2	S220 and ((embed or embedded or inside) with router)	US-PGPUB	OR	OFF	2017/07/20 15:49
S231	5	S220 and ((embed or embedded or inside) with sensor)	US-PGPUB	OR	OFF	2017/07/20 15:50
S232	5	S220 and ((embed or embedded or inside or contained) with sensor)	US-PGPUB	OR	OFF	2017/07/20 15:51
S233	2	S220 and ((embed or embedded or inside or contained) with router)	US-PGPUB	OR	OFF	2017/07/20 15:51
S234	5	S220 and ((router or sensor) with integrat$4)	US-PGPUB	OR	OFF	2017/07/20 15:51
S235	12	S220 and (embedded or embed or integrat$4)	US-PGPUB	OR	OFF	2017/07/20 15:56
S236	13	(US-20160062330-$ or US-20090198380-$ or US-20150295788-$ or US-20160344745-$ or US-20150046582-$ or US-20100030421-$ or US-20070283005-$ or US-20130308581-$ or US-20110118888-$ or US-20130139440-$ or US-20100071053-$ or US-20030105389-$ or US-20130091279-$).did.	US-PGPUB	OR	OFF	2017/07/20 19:05
S242	13	S236 and device	US-PGPUB	OR	OFF	2017/07/20 19:06
S243	0	S236 and (routing with phone)	US-PGPUB	OR	OFF	2017/07/20 19:08
S244	2	S236 and (router with phone)	US-	OR	OFF	2017/07/20

			PGPUB			19:08
S245	1	(US-20130201316-$).did.	US-PGPUB	OR	OFF	2017/07/20 19:22
S246	1	S245 and actuator	US-PGPUB	OR	OFF	2017/07/20 19:22
S247	1063	ISM near2 radio near2 band	US-PGPUB	OR	OFF	2017/07/20 19:44
S248	496	industrial near3 scientific near3 radio near3 band	US-PGPUB	OR	OFF	2017/07/20 19:44
S249	1	(industrial near3 scientific near3 radio near3 band) near5 WAN	US-PGPUB	OR	OFF	2017/07/20 19:45
S250	3	(industrial near3 scientific near3 radio near3 band) with WAN	US-PGPUB	OR	OFF	2017/07/20 19:46
S251	0	(industrial near3 scientific near3 radio near3 band) near5 internet	US-PGPUB	OR	OFF	2017/07/20 19:46
S252	14	(industrial near3 scientific near3 radio near3 band) near5 network	US-PGPUB	OR	OFF	2017/07/20 19:46
S253	1	S236 and (WAN with antenna)	US-PGPUB	OR	OFF	2017/07/20 19:56
S254	1	S236 and (WAN with modem)	US-PGPUB	OR	OFF	2017/07/20 19:59
S255	1	(US-20130201316-$).did.	US-PGPUB	OR	OFF	2017/07/20 20:19
S256	157	(BINDER and Yehuda).in.	USPAT	OR	OFF	2017/07/20 20:26
S257	10	(MAYTAL and Benjamin).in.	USPAT	OR	OFF	2017/07/20 20:26
S258	4181	H04L67/12.cpc.	USPAT	OR	OFF	2017/07/20 20:27
S259	41	(B60Y2200/30 G06Q2240/00).cpc.	USPAT	OR	OFF	2017/07/20 20:29
S260	41	(B60Y2200/30 or G06Q2240/00).cpc.	USPAT	OR	OFF	2017/07/20 20:29
S261	15	(B60Y2200/30).cpc.	USPAT	OR	OFF	2017/07/20 20:29
S262	26	(G06Q2240/00).cpc.	USPAT	OR	OFF	2017/07/20 20:29
S263	5119	(G01C21/00 or B60Y2200/90 or B60Y2200/50 or B60Y2200/40 or G08G1/00 or B60Y2200/13 or B60Y2200/126 or B60Y2200/12 or B60Y2200/11 or B60K31/18 or B60K31/00 or G07C5/008).cpc.	USPAT	OR	OFF	2017/07/20 20:31
S264	10730	(348/77 or 348/143 or 370/276 or 700/22 or 700/28 or 701/2 or 701/31.4 or 709/218).ccls.	USPAT	OR	OFF	2017/07/20 20:33
S265	11	(may and patents).as.	USPAT	OR	OFF	2017/07/20 20:33
S266	6	(may and patents).aanm.	USPAT	OR	OFF	2017/07/20 20:34
S267	0	"15657163"	US-PGPUB; USPAT	ADJ	ON	2017/09/18 11:52
S268	11	(US-20160062330-$ or US-20090198380-$ or US-20160344745-$ or US-	US-PGPUB	OR	ON	2017/09/18 12:22

		20150046582-$ or US-20070283005-$ or US-20130308581-$ or US-20100071053-$ or US-20030105389-$ or US-20130091279-$ or US-20090224906-$ or US-20120079149-$).did.				
S269	7	S268 and voice	US-PGPUB; USPAT	OR	ON	2017/09/18 12:22
S270	8	S268 and (audio or human)	US-PGPUB; USPAT	OR	ON	2017/09/18 12:23
S271	42	(US-20130201316-$ or US-20100030421-$ or US-20120303216-$ or US-20140188343-$ or US-20140236384-$ or US-20070076593-$ or US-20100211258-$ or US-20080100428-$ or US-20060111825-$ or US-20100148940-$ or US-20100201516-$ or US-20110035491-$ or US-20150046582-$ or US-20160062330-$ or US-20060217840-$ or US-20090198380-$ or US-20150295788-$ or US-20160344745-$ or US-20120253480-$ or US-20070283005-$ or US-20100071053-$ or US-20130091254-$ or US-20140286348-$ or US-20130091279-$ or US-20030105389-$ or US-20130139440-$).did. or (US-20130308581-$ or US-20110118888-$ or US-20120079149-$ or US-20080031139-$ or US-20080068156-$ or US-20080307075-$ or US-20170111158-$ or US-20090224906-$).did. or (US-8140658-$ or US-7844687-$ or US-7797367-$ or US-7020701-$ or US-6859831-$ or US-6832251-$ or US-6826607-$ or US-6735630-$).did.	US-PGPUB; USPAT	OR	ON	2017/09/18 12:24
S272	25	S271 and voice	US-PGPUB; USPAT	OR	ON	2017/09/18 12:25
S273	2	S271 and ((mic or microphone) with voice)	US-PGPUB; USPAT	OR	ON	2017/09/18 12:27
S274	31	S271 and (person or human)	US-PGPUB; USPAT	OR	ON	2017/09/18 12:38
S275	17	(control$4 or operat$4) with (actuator with (human) with voice)	US-PGPUB; USPAT	OR	ON	2017/09/18 12:43
S276	7612	(control$4 or operat$4) with (actuator with voice)	US-PGPUB; USPAT	OR	ON	2017/09/18 12:55
S277	5	(control$4 or operat$4) NEAR9 (actuator with voice) NEAR9 network	US-PGPUB; USPAT	OR	ON	2017/09/18 12:55
S278	10	2009/0089065	US-PGPUB; USPAT	OR	ON	2017/09/19 13:03
S279	2	"20090089065"	US-PGPUB; USPAT	OR	ON	2017/09/19 13:03

S280	13	(US-20160062330-$ or US-20090198380-$ or US-20160344745-$ or US-20150046582-$ or US-20070283005-$ or US-20130308581-$ or US-20100071053-$ or US-20030105389-$ or US-20130091279-$ or US-20090224906-$ or US-20120079149-$ or US-20080307075-$ or US-20090089065-$).did.	US-PGPUB	OR	ON	2017/09/19 13:12
S281	6	S280 and building	US-PGPUB; USPAT	OR	ON	2017/09/19 13:12
S282	0	"15657163"	US-PGPUB; USPAT	OR	ON	2017/09/19 13:13
S286	2	"13733634"	US-PGPUB; USPAT	ADJ	ON	2017/09/19 13:13
S287	0	S286 and (client adj2 device)	US-PGPUB; USPAT	ADJ	ON	2017/09/19 13:13
S288	5	S280 and ((speech or voice) with (command$4 or control$4))	US-PGPUB; USPAT	OR	ON	2017/09/19 13:17
S289	13	(US-20160062330-$ or US-20090198380-$ or US-20160344745-$ or US-20150046582-$ or US-20070283005-$ or US-20130308581-$ or US-20100071053-$ or US-20030105389-$ or US-20130091279-$ or US-20090224906-$ or US-20120079149-$ or US-20080307075-$ or US-20090089065-$).did.	US-PGPUB	OR	ON	2017/09/27 04:43
S290	7	S289 and (mic or microphone)	US-PGPUB; USPAT	OR	ON	2017/09/27 04:43
S291	13	(US-20160062330-$ or US-20090198380-$ or US-20160344745-$ or US-20150046582-$ or US-20070283005-$ or US-20130308581-$ or US-20100071053-$ or US-20030105389-$ or US-20130091279-$ or US-20090224906-$ or US-20120079149-$ or US-20080307075-$ or US-20090089065-$).did.	US-PGPUB	OR	ON	2017/09/28 01:25
S292	7	S291 and (mic or microphone or micro$1phone)	US-PGPUB; USPAT	OR	ON	2017/09/28 01:25
S293	43	(US-20130201316-$ or US-20100030421-$ or US-20120303216-$ or US-20140188343-$ or US-20140236384-$ or US-20070076593-$ or US-20100211258-$ or US-20080100428-$ or US-20060111825-$ or US-20100148940-$ or US-20100201516-$ or US-20110035491-$ or US-20150046582-$ or US-20160062330-$ or US-20060217840-$ or US-20090198380-$ or US-20150295788-$ or US-20160344745-$ or US-20120253480-$ or US-20070283005-$ or US-20100071053-$ or US-20130091254-$ or US-20140286348-$ or US-20130091279-$ or US-20030105389-$ or	US-PGPUB; USPAT	OR	ON	2017/09/28 08:46

		US-20130139440-$).did. or (US-20130308581-$ or US-20110118888-$ or US-20120079149-$ or US-20080031139-$ or US-20080068156-$ or US-20080307075-$ or US-20170111158-$ or US-20090224906-$ or US-20090089065-$).did. or (US-8140658-$ or US-7844687-$ or US-7797367-$ or US-7020701-$ or US-6859831-$ or US-6832251-$ or US-6826607-$ or US-6735630-$).did.				
S294	3281126	S293 and ("same" NEAR4 device) or inside	US-PGPUB; USPAT	OR	ON	2017/09/28 08:46
S295	3281126	S293 and ("same" NEAR4 device) or inside	US-PGPUB; USPAT	OR	ON	2017/09/28 08:46
S296	28	S293 and (("same" NEAR4 device) or inside)	US-PGPUB; USPAT	OR	ON	2017/09/28 08:47
S297	13	(US-20160062330-$ or US-20090198380-$ or US-20160344745-$ or US-20150046582-$ or US-20070283005-$ or US-20130308581-$ or US-20100071053-$ or US-20030105389-$ or US-20130091279-$ or US-20090224906-$ or US-20120079149-$ or US-20080307075-$ or US-20090089065-$).did.	US-PGPUB	OR	ON	2017/09/28 08:51
S298	5	S297 and actuator	US-PGPUB; USPAT	OR	ON	2017/09/28 08:51
S299	7	S297 and algorithm	US-PGPUB; USPAT	OR	ON	2017/09/28 09:06
S300	13	S297 and sensor	US-PGPUB; USPAT	OR	ON	2017/09/28 09:28
S301	3	S297 and (sensor with light)	US-PGPUB; USPAT	OR	ON	2017/09/28 09:39
S302	3	(US-20070283005-$ or US-20090089065-$ or US-20150046582-$).did.	US-PGPUB	OR	ON	2017/09/29 04:46
S303	1	S302 and (actuator with physical)	US-PGPUB; USPAT	OR	ON	2017/09/29 04:47
S304	2	S302 and (actuator)	US-PGPUB; USPAT	OR	ON	2017/09/29 04:47
S305	13	(US-20160062330-$ or US-20090198380-$ or US-20160344745-$ or US-20150046582-$ or US-20070283005-$ or US-20130308581-$ or US-20100071053-$ or US-20030105389-$ or US-20130091279-$ or US-20090224906-$ or US-20120079149-$ or US-20080307075-$ or US-20090089065-$).did.	US-PGPUB	OR	ON	2017/09/29 04:53
S306	7	S305 and (mic or microphones)	US-PGPUB; USPAT	OR	ON	2017/09/29 04:53
S307	10	S305 and (address)	US-	OR	ON	2017/09/29

			PGPUB; USPAT			05:22
S308	6	S305 and (zigbee)	US-PGPUB; USPAT	OR	ON	2017/09/29 05:30
S309	5	S305 and ("802.11")	US-PGPUB; USPAT	OR	ON	2017/09/29 05:33
S310	4	S305 and (ISM)	US-PGPUB; USPAT	OR	ON	2017/09/29 05:45
S311	2	S305 and (CDMA)	US-PGPUB; USPAT	OR	ON	2017/09/29 05:48
S312	3	S305 and (UMTS or GSM)	US-PGPUB; USPAT	OR	ON	2017/09/29 05:49
S313	8	S305 and cellular	US-PGPUB; USPAT	OR	ON	2017/09/29 05:49
S314	6	S305 and (HSPA or LTE or MBWA or "802.2" or GSM or WiMax)	US-PGPUB; USPAT	OR	ON	2017/09/29 05:54
S315	1	S305 and (applicance or freezer or refrigerator or food or beverage or coffee or tea or cooker or oven)	US-PGPUB; USPAT	OR	ON	2017/09/29 06:23
S316	43	(US-20130201316-$ or US-20100030421-$ or US-20120303216-$ or US-20140188343-$ or US-20140236384-$ or US-20070076593-$ or US-20100211258-$ or US-20080100428-$ or US-20060111825-$ or US-20100148940-$ or US-20100201516-$ or US-20110035491-$ or US-20150046582-$ or US-20160062330-$ or US-20060217840-$ or US-20090198380-$ or US-20150295788-$ or US-20160344745-$ or US-20120253480-$ or US-20070283005-$ or US-20100071053-$ or US-20130091254-$ or US-20140286348-$ or US-20130091279-$ or US-20030105389-$ or US-20130139440-$).did. or (US-20130308581-$ or US-20110118888-$ or US-20120079149-$ or US-20080031139-$ or US-20080068156-$ or US-20080307075-$ or US-20170111158-$ or US-20090224906-$ or US-20090089065-$).did. or (US-8140658-$ or US-7844687-$ or US-7797367-$ or US-7020701-$ or US-6859831-$ or US-6832251-$ or US-6826607-$ or US-6735630-$).did.	US-PGPUB; USPAT	OR	ON	2017/09/29 06:26
S317	14	S316 and (applicance or freezer or refrigerator or food or beverage or coffee or tea or cooker or oven)	US-PGPUB; USPAT	OR	ON	2017/09/29 06:26
S318	1015	network with sensor with (applicance or freezer or refrigerator or food or beverage or coffee or tea or cooker or oven)	US-PGPUB; USPAT	OR	ON	2017/09/29 06:28
S319	22	S316 and (appliance or freezer or refrigerator or food or beverage or coffee or tea or cooker or oven)	US-PGPUB; USPAT	OR	ON	2017/09/29 06:28

S320	21	S316 and (appliance or kitchen)	US-PGPUB; USPAT	OR	ON	2017/09/29 06:29
S321	3	S316 and (kitchen)	US-PGPUB; USPAT	OR	ON	2017/09/29 06:29
S322	12	(control$4) with network with kitchen with appliance with (speech or voice)	US-PGPUB; USPAT	OR	ON	2017/09/29 06:33
S323	1	(US-20170272316-$).did.	US-PGPUB	OR	ON	2017/09/29 06:36
S324	12	(US-20160062330-$ or US-20090198380-$ or US-20150046582-$ or US-20070283005-$ or US-20130308581-$ or US-20100071053-$ or US-20030105389-$ or US-20130091279-$ or US-20090224906-$ or US-20080307075-$ or US-20090089065-$ or US-20170272316-$).did.	US-PGPUB	OR	ON	2017/09/29 08:34
S325	3	S324 and (infrared or infra$1red or gamma or xrays or x$1rays)	US-PGPUB; USPAT	OR	ON	2017/09/29 08:34
S326	0	S324 and (actuat$4 with motion)	US-PGPUB; USPAT	OR	ON	2017/09/29 08:40
S327	4	S324 and (actuat$4)	US-PGPUB; USPAT	OR	ON	2017/09/29 08:41
S328	2	S324 and (actuat$4 with (sound or noise or volume or radio or music))	US-PGPUB; USPAT	OR	ON	2017/09/29 08:49
S329	2	S324 and (actuat$4 with (sound or noise or volume or audio or radio or music))	US-PGPUB; USPAT	OR	ON	2017/09/29 08:49
S330	4	S324 and (actuat$4 same (sound or noise or volume or audio or radio or music))	US-PGPUB; USPAT	OR	ON	2017/09/29 08:49
S331	0	"15657163"	US-PGPUB; USPAT	OR	ON	2017/09/29 09:02
S332	5777	709/218.ccls.	US-PGPUB; USPAT	OR	ON	2017/09/29 09:03
S333	12682	H04L67/12.cpc.	US-PGPUB; USPAT	OR	ON	2017/09/29 09:03
S334	25214	B60K 31/00.cpc.	US-PGPUB; USPAT	OR	ON	2017/09/29 09:04
S335	25214	B60K 31/18.cpc.	US-PGPUB; USPAT	OR	ON	2017/09/29 09:04
S336	288	B60Y2200/11.cpc.	US-PGPUB; USPAT	OR	ON	2017/09/29 09:04
S337	862	B60Y2200/12.cpc.	US-PGPUB;	OR	ON	2017/09/29 09:04

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			USPAT			
S338	194	B60Y2200/126.cpc.	US-PGPUB; USPAT	OR	ON	2017/09/29 09:04
S339	313	B60Y2200/13.cpc.	US-PGPUB; USPAT	OR	ON	2017/09/29 09:05
S340	35	B60Y2200/30.cpc.	US-PGPUB; USPAT	OR	ON	2017/09/29 09:05
S341	110	B60Y2200/40.cpc.	US-PGPUB; USPAT	OR	ON	2017/09/29 09:05
S342	13	B60Y2200/50.cpc.	US-PGPUB; USPAT	OR	ON	2017/09/29 09:05
S343	91	B60Y2200/90.cpc.	US-PGPUB; USPAT	OR	ON	2017/09/29 09:05
S344	36907	G01C 21/00.cpc.	US-PGPUB; USPAT	OR	ON	2017/09/29 09:05
S345	155	G06Q2240/00.cpc.	US-PGPUB; USPAT	OR	ON	2017/09/29 09:05
S346	9132	G07C 5/008.cpc.	US-PGPUB; USPAT	OR	ON	2017/09/29 09:05
S348	15985	G08G 1/00.cpc.	US-PGPUB; USPAT	OR	ON	2017/09/29 09:05
S349	40	(may and patents).as.	US-PGPUB; USPAT	OR	ON	2017/09/29 09:07
S350	42	(may and patents).aanm.	US-PGPUB; USPAT	OR	ON	2017/09/29 09:07
S351	381	(binder and yehuda).in.	US-PGPUB; USPAT	OR	ON	2017/09/29 09:07
S352	39	(maytal and benjamin).in.	US-PGPUB; USPAT	OR	ON	2017/09/29 09:07
S353	13516	H04L67/12.cpc.	US-PGPUB; USPAT	OR	ON	2018/01/19 19:43
S354	5776	709/218.ccls..	US-PGPUB; USPAT	OR	ON	2018/01/19 19:43
S355	41	(maytal and benjamin).in.	US-PGPUB; USPAT	OR	ON	2018/01/19 19:43
S356	387	(binder and yehuda).in.	US-PGPUB; USPAT	OR	ON	2018/01/19 19:43
S357	48	(may and patents).aanm.	US-PGPUB;	OR	ON	2018/01/19 19:43

			USPAT			
S358	44	(may and patents).as.	US-PGPUB; USPAT	OR	ON	2018/01/19 19:43
S359	0	(fire and eye).aanm.	US-PGPUB; USPAT	ADJ	ON	2018/01/19 19:44
S360	140	(fireeye).as.	US-PGPUB; USPAT	ADJ	ON	2018/01/19 19:44
S361	113	(fireeye).aanm.	US-PGPUB; USPAT	ADJ	ON	2018/01/19 19:44
S362	1	(US-20130201316-$).did.	US-PGPUB	ADJ	ON	2018/01/19 19:44
S363	674	(home with network) same sensor same gateway same network	US-PGPUB	ADJ	ON	2018/01/19 19:44
S364	293	(home with network) with sensor with gateway	US-PGPUB	ADJ	ON	2018/01/19 19:44
S365	5	(home with network) with sensor with gateway with command	US-PGPUB	ADJ	ON	2018/01/19 19:44
S366	22	(US-20130201316-$ or US-20100030421-$ or US-20120303216-$ or US-20140188343-$ or US-20140236384-$ or US-20070076593-$ or US-20100211258-$ or US-20080100428-$ or US-20060111825-$ or US-20100148940-$ or US-20100201516-$ or US-20110035491-$ or US-20150046582-$ or US-20160062330-$).did. or (US-8140658-$ or US-7844687-$ or US-7797367-$ or US-7020701-$ or US-6859831-$ or US-6832251-$ or US-6826607-$ or US-6735630-$).did.	US-PGPUB; USPAT	ADJ	ON	2018/01/19 19:44
S367	21	S366 and (vehicle or vehical or automobile or car)	US-PGPUB; USPAT	ADJ	ON	2018/01/19 19:44
S368	21	S366 and (vehicle or vehical or automobile or car) and actuator	US-PGPUB; USPAT	ADJ	ON	2018/01/19 19:44
S369	15	S366 and (vehicle or vehical or automobile or car) and actuator and sensor and network and cellular and wireless	US-PGPUB; USPAT	ADJ	ON	2018/01/19 19:44
S370	15	S366 and (coupled)	US-PGPUB; USPAT	ADJ	ON	2018/01/19 19:44
S371	1	S366 and (router)	US-PGPUB; USPAT	ADJ	ON	2018/01/19 19:44
S372	1030	(vehicle or car) with router with (control or server) with network	US-PGPUB; USPAT	ADJ	ON	2018/01/19 19:44
S373	18	(vehicle or car) with router with (control or server) with network with actuator	US-PGPUB; USPAT	ADJ	ON	2018/01/19 19:44
S374	2	"20090198380"	US-PGPUB; USPAT	ADJ	ON	2018/01/19 19:44

S375	1865	S359 S360 S361 S362 S363 S364 S365 S366 S367 S368 S369 S370 S371 S372 S373 S374	US-PGPUB; USPAT	OR	ON	2018/01/19 19:44
S376	13516	H04L67/12.cpc.	US-PGPUB; USPAT	OR	ON	2018/01/19 19:45
S377	27138	B60K 31/00.cpc.	US-PGPUB; USPAT	OR	ON	2018/01/19 19:45
S378	27138	B60K 31/18.cpc.	US-PGPUB; USPAT	OR	ON	2018/01/19 19:45
S379	293	B60Y2200/11.cpc.	US-PGPUB; USPAT	OR	ON	2018/01/19 19:45
S380	889	B60Y2200/12.cpc.	US-PGPUB; USPAT	OR	ON	2018/01/19 19:45
S381	202	B60Y2200/126.cpc.	US-PGPUB; USPAT	OR	ON	2018/01/19 19:45
S382	329	B60Y2200/13.cpc.	US-PGPUB; USPAT	OR	ON	2018/01/19 19:45
S383	37	B60Y2200/30.cpc.	US-PGPUB; USPAT	OR	ON	2018/01/19 19:45
S384	113	B60Y2200/40.cpc.	US-PGPUB; USPAT	OR	ON	2018/01/19 19:45
S385	17	B60Y2200/50.cpc.	US-PGPUB; USPAT	OR	ON	2018/01/19 19:45
S386	94	B60Y2200/90.cpc.	US-PGPUB; USPAT	OR	ON	2018/01/19 19:45
S387	38949	G01C 21/00.cpc.	US-PGPUB; USPAT	OR	ON	2018/01/19 19:45
S388	183	G06Q2240/00.cpc.	US-PGPUB; USPAT	OR	ON	2018/01/19 19:45
S389	10308	G07C 5/008.cpc.	US-PGPUB; USPAT	OR	ON	2018/01/19 19:45
S390	44418	G08G 1/00	US-PGPUB; USPAT	OR	ON	2018/01/19 19:45
S391	17401	G08G 1/00.cpc.	US-PGPUB; USPAT	OR	ON	2018/01/19 19:45
S392	127924	S376 S377 S378 S379 S380 S381 S382 S383 S384 S385 S386 S387 S388 S389 S390 S391	US-PGPUB; USPAT	OR	ON	2018/01/19 19:45
S393	2	"15657163"	US-PGPUB; USPAT	ADJ	ON	2018/06/15 17:22

S394	1	(US-20170331899-$).did.	US-PGPUB	OR	OFF	2018/06/15 17:22
S395	1	(US-20170331899-$).did.	US-PGPUB	OR	OFF	2018/06/17 15:00
S396	1	S395 and (voice with algorithm)	US-PGPUB	OR	OFF	2018/06/17 15:00
S397	1	(US-20170331899-$).did.	US-PGPUB	OR	OFF	2018/06/17 16:04
S398	1	S397 and (sensor with convection)	US-PGPUB	OR	OFF	2018/06/17 16:04
S399	12	(US-20160062330-$ or US-20090198380-$ or US-20150046582-$ or US-20070283005-$ or US-20130308581-$ or US-20100071053-$ or US-20030105389-$ or US-20130091279-$ or US-20090224906-$ or US-20080307075-$ or US-20090089065-$ or US-20170272316-$).did.	US-PGPUB	OR	OFF	2018/06/18 06:55
S400	0	S399 and (voice or audio)	USPAT	OR	OFF	2018/06/18 06:55
S401	0	S399 and (voice or audio)	USPAT	OR	ON	2018/06/18 06:55
S402	0	S399 and (voice or audio)	USPAT	OR	OFF	2018/06/18 06:55
S403	0	S399 and audio	USPAT	OR	OFF	2018/06/18 06:56
S404	0	S399 and (voice or audio)	USPAT	OR	OFF	2018/06/18 06:56
S405	9	S399 and (voice or audio)	US-PGPUB; USPAT	OR	OFF	2018/06/18 06:56
S406	5	S399 and ((voice or audio or speech) with (command or control))	US-PGPUB; USPAT	OR	OFF	2018/06/18 06:58
S407	6	S399 and (mic or microphone)	US-PGPUB; USPAT	OR	OFF	2018/06/18 07:02
S408	42	(US-20130201316-$ or US-20100030421-$ or US-20120303216-$ or US-20140188343-$ or US-20140236384-$ or US-20070076593-$ or US-20100211258-$ or US-20080100428-$ or US-20060111825-$ or US-20100148940-$ or US-20100201516-$ or US-20110035491-$ or US-20150046582-$ or US-20160062330-$ or US-20060217840-$ or US-20090198380-$ or US-20150295788-$ or US-20120253480-$ or US-20070283005-$ or US-20100071053-$ or US-20130091254-$ or US-20140286348-$ or US-20130091279-$ or US-20030105389-$ or US-20130139440-$ or US-20130308581-$).did. or (US-20110118888-$ or US-20080031139-$ or US-20080068156-$ or US-20080307075-$ or US-20170111158-$ or US-20090224906-$ or US-20090089065-$ or US-20170272316-$).did. or (US-8140658-$ or US-7844687-$ or US-7797367-$ or	US-PGPUB; USPAT	OR	OFF	2018/06/18 07:16

		US-7020701-$ or US-6859831-$ or US-6832251-$ or US-6826607-$ or US-6735630-$).did.				
S409	18	S408 and (mic or microphone)	US-PGPUB; USPAT	OR	OFF	2018/06/18 07:16
S410	7	S408 and ((voice or audio or speech) with (command or control))	US-PGPUB; USPAT	OR	OFF	2018/06/18 07:16
S411	5	S408 and ((voice or audio or speech) NEAR9 (command or control))	US-PGPUB; USPAT	OR	OFF	2018/06/18 07:17
S412	0	S408 and ((speech with control with process) same (external with server))	US-PGPUB; USPAT	OR	OFF	2018/06/18 07:20
S413	1	S408 and ((speech with control with process) same (external))	US-PGPUB; USPAT	OR	OFF	2018/06/18 07:21
S414	14	S408 and ((control with process))	US-PGPUB; USPAT	OR	OFF	2018/06/18 07:21
S415	7	S408 and (((speech or voice or audio) with control))	US-PGPUB; USPAT	OR	OFF	2018/06/18 07:22
S416	7	S415 and wireless	US-PGPUB; USPAT	OR	OFF	2018/06/18 07:28
S417	11	S399 and (wireless)	US-PGPUB; USPAT	OR	OFF	2018/06/18 07:28
S418	2	"20050273505"	US-PGPUB; USPAT	OR	OFF	2018/06/18 09:53
S419	2	"20060212194"	US-PGPUB; USPAT	OR	OFF	2018/06/18 09:53
S420	8	("20050273505" | "20060212194" | "20070096565" | "20070176740" | "20080129475" | "20080136670" | "20100207754" | "20130139440").PN.	US-PGPUB; USPAT	OR	OFF	2018/06/18 09:55
S421	0	S420 and appliance	USPAT	OR	OFF	2018/06/18 09:55
S422	3	("20080307075" | "20090089065" | "20170272316").PN.	US-PGPUB; USPAT	OR	OFF	2018/06/18 09:55
S423	0	S422 and appliance	USPAT	OR	OFF	2018/06/18 09:55
S424	0	S420 and appliance	US-PGPUB; USPAT	OR	ON	2018/06/18 09:56
S425	1	S422 and appliance	US-PGPUB; USPAT	OR	ON	2018/06/18 09:56
S426	21	"8447843"	US-PGPUB; USPAT	OR	ON	2018/06/18 09:58
S427	1	"8447843".pn.	US-	OR	ON	2018/06/18

			PGPUB; USPAT			09:58
S428	3	"20080077425"	US-PGPUB; USPAT	OR	ON	2018/06/18 09:58
S429	0	S428 and appliance	US-PGPUB; USPAT	OR	ON	2018/06/18 09:58
S430	0	S428 and kitchen	US-PGPUB; USPAT	OR	ON	2018/06/18 09:59
S431	21	("20030009271" | "20030105389" | "20060111825" | "20070021847" | "20070198144" | "20070283005" | "20080100428" | "20090138136" | "20090198380" | "20090224906" | "20100030421" | "20100071053" | "20100211258" | "20110153149" | "20120079149" | "20130091279" | "20130308581" | "20140215491" | "20150046582" | "20160062330" | "20160344745").PN.	US-PGPUB; USPAT	OR	OFF	2018/06/18 09:59
S432	7	S431 and appliance	US-PGPUB; USPAT	OR	ON	2018/06/18 09:59
S433	134	("0000001" | "0000002" | "0000030" | "0000058" | "0000065" | "0000105" | "0000135" | "0000158" | "0002002" | "0006263" | "0006324" | "0006865" | "0040919" | "0064736" | "0066069" | "0089847" | "0500145" | "0732666" | "120050044119" | "120050247573" | "120070112939" | "120080263117" | "120100201531" | "120110041604" | "120110222726" | "14248123" | "15010399" | "15134887" | "15710833" | "15724456" | "15987154" | "16109331" | "16188777" | "16329160" | "16501857" | "16504942" | "16549616" | "16931596" | "17213061" | "17317815" | "17321936" | "17414186" | "17598942" | "17614305" | "17617729" | "1784721" | "20020009383" | "20020010938" | "20030092261" | "20030099228" | "20040182167" | "20050000120" | "20050010957" | "20050180561" | "20070132725" | "20090272193" | "20100000218" | "20100162815" | "20120268373" | "2171640" | "3184842" | "382264836" | "4019073" | "4047187" | "4243631" | "4317991" | "4351192" | "4367027" | "4414537" | "4434451" | "4638364" | "4759220" | "4796891" | "4853884" | "4857273" | "4905176" | "5046022" | "5047952" | "5105087" | "5138459" | "5274631" | "5291234" | "5349129" | "5386103" | "5402170" | "5454043" | "5488429" | "5510765" | "5511547" | "5578877" | "5621455" | "56344119" | "5652849" | "5666159" | "5781650" | "5818975" | "5835616" | "5870138" | "5896443" | "5930201" | "5948965" |	US-PGPUB; USPAT	OR	OFF	2018/06/18 10:01

		"5962786" | "5978519" | "5991456" | "6069899" | "6097470" | "6101271" | "6128397" | "6132281" | "6149312" | "6151073" | "6211636393148" | "6216160" | "6282317" | "6285761" | "6301370" | "6404900" | "6407777" | "6421468" | "6437576" | "6452499" | "6459436" | "6473199" | "6476372" | "6504951" | "6526161" | "6535243" | "6549234" | "6552743" | "6670125" | "6693296216311" | "6694316" | "6714021" | "6747258" | "67883325" | "6806722" | "6820225" | "6844897" | "6862353" | "6895803" | "6940545" | "6967565" | "7010050" | "7124157" | "7239577" | "7256466" | "7289645" | "7315630" | "7327385" | "7342212" | "7432952" | "7466866" | "7499239" | "7508961" | "7653573" | "7688036" | "7692320" | "7716985" | "7821541" | "7843336" | "8016205" | "8115646" | "8180492" | "8214070" | "95578755" | "RE00031" | "RE33682" | "T000005" | "T009255" | "T092876" | "T746684").PN.				
S434	4	S433 and appliance	US-PGPUB; USPAT	OR	OFF	2018/06/18 10:01
S435	4	S433 and (appliance or stove or refrigerator)	US-PGPUB; USPAT	OR	OFF	2018/06/18 10:02
S436	1	"20040267385"	US-PGPUB; USPAT	OR	OFF	2018/06/18 10:03
S437	1	S422 and (appliance or stove or refrigerator)	US-PGPUB; USPAT	OR	OFF	2018/06/18 10:04
S438	0	S428 and (appliance or stove or refrigerator)	US-PGPUB; USPAT	OR	OFF	2018/06/18 10:04
S439	5	S431 and (appliance or stove or refrigerator)	US-PGPUB; USPAT	OR	OFF	2018/06/18 10:04
S440	44	(US-20130201316-$ or US-20100030421-$ or US-20120303216-$ or US-20140188343-$ or US-20140236384-$ or US-20070076593-$ or US-20100211258-$ or US-20080100428-$ or US-20060111825-$ or US-20100148940-$ or US-20100201516-$ or US-20110035491-$ or US-20150046582-$ or US-20160062330-$ or US-20060217840-$ or US-20090198380-$ or US-20150295788-$ or US-20120253480-$ or US-20070283005-$ or US-20100071053-$ or US-20130091254-$ or US-20140286348-$ or US-20130091279-$ or US-20030105389-$ or US-20130139440-$ or US-20130308581-$).did. or (US-20110118888-$ or US-20080031139-$ or US-20080068156-$ or US-20080307075-$ or US-20170111158-$ or US-20090224906-$ or US-20090089065-$ or	US-PGPUB; USPAT	OR	OFF	2018/06/18 10:05

		US-20170272316-$ or US-20080077425-$ or US-20040267385-$).did. or (US-8140658-$ or US-7844687-$ or US-7797367-$ or US-7020701-$ or US-6859831-$ or US-6832251-$ or US-6826607-$ or US-6735630-$).did.				
S441	8	S440 and (appliance or stove or refrigerator)	US-PGPUB; USPAT	OR	OFF	2018/06/18 10:05
S442	1	S440 and (stove or refrigerator)	US-PGPUB; USPAT	OR	OFF	2018/06/18 10:05
S443	22	S440 and (appliance or stove or refrigerator or air$1conditioner or microwave)	US-PGPUB; USPAT	OR	OFF	2018/06/18 10:21
S444	15	S440 and (stove or refrigerator or air$1conditioner or microwave)	US-PGPUB; USPAT	OR	OFF	2018/06/18 10:21
S445	6	S440 and (stove or refrigerator or air adj conditioner)	US-PGPUB; USPAT	OR	OFF	2018/06/18 10:22
S446	1	S440 and (burner or stove or oven)	US-PGPUB; USPAT	OR	OFF	2018/06/18 10:26
S447	0	S399 and (burner or stove or oven)	US-PGPUB; USPAT	OR	OFF	2018/06/18 10:26
S448	0	S399 and (burner or stove or oven)	US-PGPUB; USPAT	OR	ON	2018/06/18 10:26
S449	1	S440 and (burner or stove or oven)	US-PGPUB; USPAT	OR	ON	2018/06/18 10:26
S450	3	(US-20160062330-$ or US-20070283005-$ or US-20090089065-$).did.	US-PGPUB	OR	OFF	2018/06/18 11:23
S451	1	(US-20080077425-$).did.	US-PGPUB	OR	OFF	2018/06/18 11:27
S452	0	S451 and IoT	US-PGPUB; USPAT	OR	ON	2018/06/18 11:27
S453	44	(US-20130201316-$ or US-20100030421-$ or US-20120303216-$ or US-20140188343-$ or US-20140236384-$ or US-20070076593-$ or US-20100211258-$ or US-20080100428-$ or US-20060111825-$ or US-20100148940-$ or US-20100201516-$ or US-20110035491-$ or US-20150046582-$ or US-20160062330-$ or US-20060217840-$ or US-20090198380-$ or US-20150295788-$ or US-20120253480-$ or US-20070283005-$ or US-20100071053-$ or US-20130091254-$ or US-20140286348-$ or US-20130091279-$ or US-20030105389-$ or US-20130139440-$ or US-20130308581-$).did. or (US-20110118888-$ or US-20080031139-$ or US-20080068156-$ or US-20080307075-$ or US-20170111158-$ or US-	US-PGPUB; USPAT	OR	OFF	2018/06/18 11:27

		20090224906-$ or US-20090089065-$ or US-20170272316-$ or US-20080077425-$ or US-20040267385-$).did. or (US-8140658-$ or US-7844687-$ or US-7797367-$ or US-7020701-$ or US-6859831-$ or US-6832251-$ or US-6826607-$ or US-6735630-$).did.				
S457	1	S453 and IoT	US-PGPUB; USPAT	OR	ON	2018/06/18 11:28
S458	1	S450 and (LAN or (local adj2 area))	US-PGPUB	OR	ON	2018/06/18 11:32
S459	227	(yehuda and binder).in.	US-PGPUB	ADJ	ON	2018/06/18 12:53
S460	31	(benjamin and maytal).in.	US-PGPUB	ADJ	ON	2018/06/18 12:53
S461	26	(may and patents).as.	US-PGPUB	ADJ	ON	2018/06/18 12:53
S462	39	(may and patents).aanm.	US-PGPUB	ADJ	ON	2018/06/18 12:53
S463	57	S461 or S462	US-PGPUB	ADJ	ON	2018/06/18 12:53
S464	253	S459 or S460	US-PGPUB	ADJ	ON	2018/06/18 12:53
S465	253	S463 or S464	US-PGPUB	ADJ	ON	2018/06/18 12:53
S466	2	S465 and (vehicle and router and actuator).clm.	US-PGPUB	ADJ	ON	2018/06/18 12:53
S467	9404	H04L67/12.cpc.	US-PGPUB	ADJ	ON	2018/06/18 12:54
S468	997	348/77.ccls.	US-PGPUB	ADJ	ON	2018/06/18 12:54
S469	374	700/28.ccls.	US-PGPUB	ADJ	ON	2018/06/18 12:54
S470	148	700/22.ccls.	US-PGPUB	ADJ	ON	2018/06/18 12:54
S471	1455	709/218.ccls.	US-PGPUB	ADJ	ON	2018/06/18 12:54
S472	12341	S467 or S468 or S469 or S470 or S471	US-PGPUB	ADJ	ON	2018/06/18 12:54
S473	5776	709/218.ccls.	US-PGPUB; USPAT	OR	ON	2018/06/18 12:59
S474	14669	H04L67/12.cpc.	US-PGPUB; USPAT	OR	ON	2018/06/18 12:59
S475	29542	B60K 31/00.cpc.	US-PGPUB; USPAT	OR	ON	2018/06/18 12:59
S476	29542	B60K 31/18.cpc.	US-PGPUB; USPAT	OR	ON	2018/06/18 12:59
S477	300	B60Y2200/11.cpc.	US-PGPUB; USPAT	OR	ON	2018/06/18 12:59
S478	915	B60Y2200/12.cpc.	US-	OR	ON	2018/06/18

			PGPUB; USPAT			12:59
S479	217	B60Y2200/126.cpc.	US-PGPUB; USPAT	OR	ON	2018/06/18 12:59
S480	339	B60Y2200/13.cpc.	US-PGPUB; USPAT	OR	ON	2018/06/18 12:59
S481	42	B60Y2200/30.cpc.	US-PGPUB; USPAT	OR	ON	2018/06/18 12:59
S482	128	B60Y2200/40.cpc.	US-PGPUB; USPAT	OR	ON	2018/06/18 12:59
S483	23	B60Y2200/50.cpc.	US-PGPUB; USPAT	OR	ON	2018/06/18 12:59
S484	104	B60Y2200/90.cpc.	US-PGPUB; USPAT	OR	ON	2018/06/18 12:59
S485	41547	G01C 21/00.cpc.	US-PGPUB; USPAT	OR	ON	2018/06/18 12:59
S486	204	G06Q2240/00.cpc.	US-PGPUB; USPAT	OR	ON	2018/06/18 12:59
S487	11825	G07C 5/008.cpc.	US-PGPUB; USPAT	OR	ON	2018/06/18 12:59
S488	49737	G08G 1/00	US-PGPUB; USPAT	OR	ON	2018/06/18 12:59
S489	19313	G08G 1/00.cpc.	US-PGPUB; USPAT	OR	ON	2018/06/18 12:59
S490	48	(may and patents).as.	US-PGPUB; USPAT	OR	ON	2018/06/18 12:59
S491	55	(may and patents).aanm.	US-PGPUB; USPAT	OR	ON	2018/06/18 12:59
S492	395	(binder and yehuda).in.	US-PGPUB; USPAT	OR	ON	2018/06/18 12:59
S493	44	(maytal and benjamin).in.	US-PGPUB; USPAT	OR	ON	2018/06/18 12:59
S494	14669	H04L67/12.cpc.	US-PGPUB; USPAT	OR	ON	2018/06/18 12:59
S495	19392	709/218.ccls..	US-PGPUB; USPAT	OR	ON	2018/06/18 12:59
S496	44	(maytal and benjamin).in.	US-PGPUB; USPAT	OR	ON	2018/06/18 12:59
S497	395	(binder and yehuda).in.	US-	OR	ON	2018/06/18

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			PGPUB; USPAT			12:59
S498	55	(may and patents).aanm.	US-PGPUB; USPAT	OR	ON	2018/06/18 12:59
S499	48	(may and patents).as.	US-PGPUB; USPAT	OR	ON	2018/06/18 12:59
S500	159408	S473 S474 S475 S476 S477 S478 S479 S480 S481 S482 S483 S484 S485 S486 S487 S488 S489 S490 S491 S492 S493 S494 S495 S496 S497 S498 S499	US-PGPUB; USPAT	OR	ON	2018/06/18 12:59
S501	10	S500 and (vehicle and router and actuator).clm.	US-PGPUB; USPAT	ADJ	ON	2018/06/18 13:01
S502	2	"15657163"	US-PGPUB; USPAT	OR	OFF	2018/06/18 13:02
S503	1	S500 and (human with voice with actuator with client).clm.	US-PGPUB; USPAT	ADJ	ON	2018/06/18 13:02
S504	5775	709/218.ccls.	US-PGPUB; USPAT	OR	ON	2018/08/30 15:54
S505	16337	H04L67/12.cpc.	US-PGPUB; USPAT	OR	ON	2018/08/30 15:54
S506	30893	B60K 31/00.cpc.	US-PGPUB; USPAT	OR	ON	2018/08/30 15:54
S507	30893	B60K 31/18.cpc.	US-PGPUB; USPAT	OR	ON	2018/08/30 15:54
S508	307	B60Y2200/11.cpc.	US-PGPUB; USPAT	OR	ON	2018/08/30 15:54
S509	964	B60Y2200/12.cpc.	US-PGPUB; USPAT	OR	ON	2018/08/30 15:54
S510	228	B60Y2200/126.cpc.	US-PGPUB; USPAT	OR	ON	2018/08/30 15:54
S511	372	B60Y2200/13.cpc.	US-PGPUB; USPAT	OR	ON	2018/08/30 15:54
S512	47	B60Y2200/30.cpc.	US-PGPUB; USPAT	OR	ON	2018/08/30 15:54
S513	139	B60Y2200/40.cpc.	US-PGPUB; USPAT	OR	ON	2018/08/30 15:54
S514	28	B60Y2200/50.cpc.	US-PGPUB; USPAT	OR	ON	2018/08/30 15:54
S515	117	B60Y2200/90.cpc.	US-PGPUB; USPAT	OR	ON	2018/08/30 15:54

S516	43002	G01C 21/00.cpc.	US-PGPUB; USPAT	OR	ON	2018/08/30 15:54
S517	267	G06Q2240/00.cpc.	US-PGPUB; USPAT	OR	ON	2018/08/30 15:54
S518	12674	G07C 5/008.cpc.	US-PGPUB; USPAT	OR	ON	2018/08/30 15:54
S519	52730	G08G 1/00	US-PGPUB; USPAT	OR	ON	2018/08/30 15:54
S520	20427	G08G 1/00.cpc.	US-PGPUB; USPAT	OR	ON	2018/08/30 15:54
S521	48	(may and patents).as.	US-PGPUB; USPAT	OR	ON	2018/08/30 15:54
S522	56	(may and patents).aanm.	US-PGPUB; USPAT	OR	ON	2018/08/30 15:54
S523	396	(binder and yehuda).in.	US-PGPUB; USPAT	OR	ON	2018/08/30 15:54
S524	44	(maytal and benjamin).in.	US-PGPUB; USPAT	OR	ON	2018/08/30 15:54
S525	16337	H04L67/12.cpc.	US-PGPUB; USPAT	OR	ON	2018/08/30 15:54
S526	19576	709/218.ccls..	US-PGPUB; USPAT	OR	ON	2018/08/30 15:54
S527	44	(maytal and benjamin).in.	US-PGPUB; USPAT	OR	ON	2018/08/30 15:54
S528	396	(binder and yehuda).in.	US-PGPUB; USPAT	OR	ON	2018/08/30 15:54
S529	56	(may and patents).aanm.	US-PGPUB; USPAT	OR	ON	2018/08/30 15:54
S530	48	(may and patents).as.	US-PGPUB; USPAT	OR	ON	2018/08/30 15:54
S531	167168	S504 S505 S506 S507 S508 S509 S510 S511 S512 S513 S514 S515 S516 S517 S518 S519 S520 S521 S522 S523 S524 S525 S526 S527 S528 S529 S530	US-PGPUB; USPAT	OR	ON	2018/08/30 15:54
S532	1	S531 and (human with voice with actuator with client).clm.	US-PGPUB; USPAT	ADJ	ON	2018/08/30 15:54
S533	7	(US-20160062330-$ or US-20070283005-$ or US-20100071053-$ or US-20130091279-$ or US-20080307075-$ or US-20090089065-$ or US-20170272316-$).did.	US-PGPUB	OR	OFF	2018/08/31 12:30

S534	1	"15832787"	US-PGPUB; USPAT	OR	OFF	2018/09/15 21:04
S535	32	("20070198144" | "20100211258" | "20160062330" | "20170272316" | "20070096565" | "20070176740" | "20100071053" | "20140215491" | "20150046582" | "20160344745" | "20060212194" | "20120079149" | "20030105389" | "20090138136" | "20090224906" | "20080129475" | "20080136670" | "20130091279" | "20130308581" | "20130139440" | "20080100428" | "20080307075" | "20110153149" | "20050273505" | "20060111825" | "20070021847" | "20090198380" | "20100030421" | "20030009271" | "20070283005" | "20090089065" | "20100207754").PN.	US-PGPUB; USPAT	OR	OFF	2018/09/16 02:08
S536	7	(US-20160062330-$ or US-20070283005-$ or US-20100071053-$ or US-20130091279-$ or US-20080307075-$ or US-20090089065-$ or US-20170272316-$).did.	US-PGPUB	OR	OFF	2018/09/16 02:13
S537	45	(US-20130201316-$ or US-20100030421-$ or US-20120303216-$ or US-20140188343-$ or US-20140236384-$ or US-20070076593-$ or US-20100211258-$ or US-20080100428-$ or US-20060111825-$ or US-20100148940-$ or US-20100201516-$ or US-20110035491-$ or US-20150046582-$ or US-20160062330-$ or US-20060217840-$ or US-20090198380-$ or US-20150295788-$ or US-20120253480-$ or US-20070283005-$ or US-20100071053-$ or US-20130091254-$ or US-20140286348-$ or US-20130091279-$ or US-20030105389-$ or US-20130139440-$ or US-20130308581-$).did. or (US-20110118888-$ or US-20080031139-$ or US-20080068156-$ or US-20080307075-$ or US-20170111158-$ or US-20090224906-$ or US-20090089065-$ or US-20170272316-$ or US-20080077425-$ or US-20040267385-$ or US-20180124181-$).did. or (US-8140658-$ or US-7844687-$ or US-7797367-$ or US-7020701-$ or US-6859831-$ or US-6832251-$ or US-6826607-$ or US-6735630-$).did.	US-PGPUB; USPAT	OR	OFF	2018/09/16 02:13
S538	7	S535 and S536 and S537	US-PGPUB; USPAT	OR	OFF	2018/09/16 02:13
S539	60	S535 or S536 or S537	US-PGPUB; USPAT	OR	OFF	2018/09/16 02:13
S540	17	S539 and ((voice or audio or speech) with control)	US-PGPUB; USPAT	OR	OFF	2018/09/16 02:13
S541	13	S540 and (LED or light)	US-PGPUB;	OR	OFF	2018/09/16 02:13

			USPAT			
S542	8	S539 and ((voice or audio or speech) adj3 control)	US-PGPUB; USPAT	OR	OFF	2018/09/16 02:14
S543	7	S542 and (LED or light)	US-PGPUB; USPAT	OR	OFF	2018/09/16 02:14
S544	4	S542 and ((actuator or respond or response or responsing or alerting or notifying or alert or notify or notifcation) with (LED or light))	US-PGPUB; USPAT	OR	OFF	2018/09/16 02:22
S545	13	S539 and ((actuator or respond or response or responsing or alerting or notifying or alert or notify or notifcation) with (LED or light))	US-PGPUB; USPAT	OR	OFF	2018/09/16 02:22
S546	32	("20070198144" | "20100211258" | "20160062330" | "20170272316" | "20070096565" | "20070176740" | "20100071053" | "20140215491" | "20150046582" | "20160344745" | "20060212194" | "20120079149" | "20030105389" | "20090138136" | "20090224906" | "20080129475" | "20080136670" | "20130091279" | "20130308581" | "20130139440" | "20080100428" | "20080307075" | "20110153149" | "20050273505" | "20060111825" | "20070021847" | "20090198380" | "20100030421" | "20030009271" | "20070283005" | "20090089065" | "20100207754").PN.	US-PGPUB; USPAT	OR	OFF	2018/09/16 17:50
S547	7	(US-20160062330-$ or US-20070283005-$ or US-20100071053-$ or US-20130091279-$ or US-20080307075-$ or US-20090089065-$ or US-20170272316-$).did.	US-PGPUB	OR	OFF	2018/09/16 17:50
S548	45	(US-20130201316-$ or US-20100030421-$ or US-20120303216-$ or US-20140188343-$ or US-20140236384-$ or US-20070076593-$ or US-20100211258-$ or US-20080100428-$ or US-20060111825-$ or US-20100148940-$ or US-20100201516-$ or US-20110035491-$ or US-20150046582-$ or US-20160062330-$ or US-20060217840-$ or US-20090198380-$ or US-20150295788-$ or US-20120253480-$ or US-20070283005-$ or US-20100071053-$ or US-20130091254-$ or US-20140286348-$ or US-20130091279-$ or US-20030105389-$ or US-20130139440-$ or US-20130308581-$).did. or (US-20110118888-$ or US-20080031139-$ or US-20080068156-$ or US-20080307075-$ or US-20170111158-$ or US-20090224906-$ or US-20090089065-$ or US-20170272316-$ or US-20080077425-$ or US-20040267385-$ or US-20180124181-$).did. or (US-8140658-$ or US-7844687-$ or US-7797367-$ or US-7020701-$ or US-6859831-$ or US-6832251-$ or US-6826607-$ or US-	US-PGPUB; USPAT	OR	OFF	2018/09/16 17:50

		6735630-$).did.				
S549	60	S546 or S547 or S548	US-PGPUB; USPAT	OR	OFF	2018/09/16 17:50
S550	13	S549 and ((actuator or respond or response or responsing or alerting or notifying or alert or notify or notifcation) with (LED or light))	US-PGPUB; USPAT	OR	OFF	2018/09/16 17:50
S551	13929	sensor same actuator same light	US-PGPUB; USPAT	OR	OFF	2018/09/16 17:54
S552	40441	home with security	US-PGPUB; USPAT	OR	OFF	2018/09/16 17:54
S553	38871	S552 and (control or central or server)	US-PGPUB; USPAT	OR	OFF	2018/09/16 17:55
S554	3449	S553 and (actuator)	US-PGPUB; USPAT	OR	OFF	2018/09/16 17:55
S555	1784	S554 and light and LED	US-PGPUB; USPAT	OR	OFF	2018/09/16 17:55
S556	9664	S553 and light and LED	US-PGPUB; USPAT	OR	OFF	2018/09/16 17:55
S557	6008	S556 and alarm	US-PGPUB; USPAT	OR	OFF	2018/09/16 17:55
S558	5158	S557 and internet	US-PGPUB; USPAT	OR	OFF	2018/09/16 17:56
S559	5700	S557 and wireless	US-PGPUB; USPAT	OR	OFF	2018/09/16 17:56
S560	5082	S559 and internet	US-PGPUB; USPAT	OR	OFF	2018/09/16 17:56
S561	26	(may and patents).as.	US-PGPUB	ADJ	ON	2018/09/16 17:57
S562	40	(may and patents).aanm.	US-PGPUB	ADJ	ON	2018/09/16 17:57
S563	58	S561 or S562	US-PGPUB	ADJ	ON	2018/09/16 17:57
S564	5130	S560 XOR S563	US-PGPUB; USPAT	OR	OFF	2018/09/16 17:57
S565	152	S560 and (actuator with light)	US-PGPUB; USPAT	OR	OFF	2018/09/16 17:58
S566	234	S560 and (actuator same light)	US-PGPUB; USPAT	OR	OFF	2018/09/16 17:58
S567	715	S560 and (sensor with internet)	US-PGPUB; USPAT	OR	OFF	2018/09/16 20:02

S568	47	S565 and (sensor with internet)	US-PGPUB; USPAT	OR	OFF	2018/09/16 20:02
S569	9	S565 and (sensor NEAR7 internet)	US-PGPUB; USPAT	OR	OFF	2018/09/16 20:02
S570	45	S568 and (control$4 with light)	US-PGPUB; USPAT	OR	OFF	2018/09/16 20:07
S571	42	S568 and (control$4 NEAR9 light)	US-PGPUB; USPAT	OR	OFF	2018/09/16 20:07
S572	2	(US-20070283005-$ or US-20180253069-$).did.	US-PGPUB	OR	OFF	2018/09/16 21:47
S573	1	S572 and lamp	US-PGPUB; USPAT	OR	OFF	2018/09/16 21:47
S574	3	(US-20070283005-$ or US-20090089065-$ or US-20180253069-$).did.	US-PGPUB	OR	OFF	2018/09/16 21:51
S575	3	S574 and (voice)	US-PGPUB	OR	OFF	2018/09/16 21:51
S576	3	S574 and (speech or voice)	US-PGPUB	OR	OFF	2018/09/16 21:52
S577	1	S574 and (speech)	US-PGPUB	OR	OFF	2018/09/16 21:52
S578	47	(US-20130201316-$ or US-20100030421-$ or US-20120303216-$ or US-20140188343-$ or US-20140236384-$ or US-20070076593-$ or US-20100211258-$ or US-20080100428-$ or US-20060111825-$ or US-20100148940-$ or US-20100201516-$ or US-20110035491-$ or US-20150046582-$ or US-20160062330-$ or US-20060217840-$ or US-20090198380-$ or US-20150295788-$ or US-20120253480-$ or US-20070283005-$ or US-20100071053-$ or US-20130091254-$ or US-20140286348-$ or US-20130091279-$ or US-20030105389-$ or US-20130139440-$ or US-20130308581-$).did. or (US-20110118888-$ or US-20080031139-$ or US-20080068156-$ or US-20080307075-$ or US-20170111158-$ or US-20090224906-$ or US-20090089065-$ or US-20170272316-$ or US-20080077425-$ or US-20040267385-$ or US-20180124181-$ or US-20050216302-$ or US-20180253069-$).did. or (US-8140658-$ or US-7844687-$ or US-7797367-$ or US-7020701-$ or US-6859831-$ or US-6832251-$ or US-6826607-$ or US-6735630-$).did.	US-PGPUB; USPAT	OR	OFF	2018/09/16 21:52
S579	8	S578 and ((speech or voice) with control)	US-PGPUB; USPAT	OR	OFF	2018/09/16 21:53
S580	1	S574 and (lamp)	US-PGPUB	OR	OFF	2018/09/16 21:54
S581	2	S574 and (LED or light or bulb)	US-	OR	OFF	2018/09/16

			PGPUB			21:55
S582	1	"20080215391"	US-PGPUB	OR	OFF	2018/09/16 22:08
S583	2	(US-20070283005-$ or US-20080215391-$).did.	US-PGPUB	OR	OFF	2018/09/16 22:16
S584	1	"15832787"	US-PGPUB	OR	OFF	2018/09/16 22:40
S585	5775	709/218.ccls.	US-PGPUB; USPAT	OR	OFF	2018/09/17 00:59
S586	16494	H04L67/12.cpc.	US-PGPUB; USPAT	OR	OFF	2018/09/17 00:59
S587	31132	B60K 31/00.cpc.	US-PGPUB; USPAT	OR	OFF	2018/09/17 00:59
S588	150	B60K31/18.cpc.	US-PGPUB; USPAT	OR	OFF	2018/09/17 00:59
S589	670	B60K31/00.cpc.	US-PGPUB; USPAT	OR	OFF	2018/09/17 00:59
S590	309	B60Y2200/11.cpc.	US-PGPUB; USPAT	OR	OFF	2018/09/17 01:00
S591	966	B60Y2200/12.cpc.	US-PGPUB; USPAT	OR	OFF	2018/09/17 01:00
S592	230	B60Y2200/126.cpc.	US-PGPUB; USPAT	OR	OFF	2018/09/17 01:00
S593	378	B60Y2200/13.cpc.	US-PGPUB; USPAT	OR	OFF	2018/09/17 01:00
S594	48	B60Y2200/30.cpc.	US-PGPUB; USPAT	OR	OFF	2018/09/17 01:00
S595	139	B60Y2200/40.cpc.	US-PGPUB; USPAT	OR	OFF	2018/09/17 01:00
S596	28	B60Y2200/50.cpc.	US-PGPUB; USPAT	OR	OFF	2018/09/17 01:00
S597	118	B60Y2200/90.cpc.	US-PGPUB; USPAT	OR	OFF	2018/09/17 01:00
S598	3668	G01C21/00.cpc.	US-PGPUB; USPAT	OR	OFF	2018/09/17 01:01
S599	270	G06Q2240/00.cpc.	US-PGPUB; USPAT	OR	OFF	2018/09/17 01:01
S600	7177	G07C5/008.cpc.	US-PGPUB; USPAT	OR	OFF	2018/09/17 01:01
S601	648	G08G1/00.cpc.	US-	OR	OFF	2018/09/17

			PGPUB; USPAT			01:01
S602	44	(maytal and benjamin).in.	US-PGPUB; USPAT	OR	ON	2018/09/17 01:02
S603	396	(binder and yehuda).in.	US-PGPUB; USPAT	OR	ON	2018/09/17 01:02
S604	56	(may and patents).aanm.	US-PGPUB; USPAT	OR	ON	2018/09/17 01:02
S605	48	(may and patents).as.	US-PGPUB; USPAT	OR	ON	2018/09/17 01:02
S606	32994	S602 or S603 or S604 or S605 or S585 or S586 or S587 or S588 or S589 or S590 or S591 or S592 or S593 or S594 or S595 or S596 or S597 or S598 or S599 or S600 or S601	US-PGPUB	ADJ	ON	2018/09/17 01:02
S607	6	S606 and (voice with microphones with human).clm.	US-PGPUB	ADJ	ON	2018/09/17 01:03
S608	191	S606 and (light with diode).clm.	US-PGPUB	ADJ	ON	2018/09/17 01:03
S609	2	S607 and (light with diode).clm.	US-PGPUB	ADJ	ON	2018/09/17 01:04
S610	15	(US-20140215491-$ or US-20100071053-$ or US-20070021847-$ or US-20110153149-$ or US-20090138136-$ or US-20060111825-$ or US-20080100428-$ or US-20070198144-$ or US-20030009271-$ or US-20100211258-$ or US-20100030421-$ or US-20150046582-$ or US-20090089065-$ or US-20080307075-$ or US-20070283005-$).did.	US-PGPUB; USPAT	OR	OFF	2018/09/20 16:51
S611	53	(US-20130201316-$ or US-20100030421-$ or US-20120303216-$ or US-20140188343-$ or US-20140236384-$ or US-20070076593-$ or US-20100211258-$ or US-20080100428-$ or US-20060111825-$ or US-20100148940-$ or US-20100201516-$ or US-20110035491-$ or US-20150046582-$ or US-20160062330-$ or US-20060217840-$ or US-20090198380-$ or US-20150295788-$ or US-20160344745-$ or US-20120253480-$ or US-20070283005-$ or US-20100071053-$ or US-20130091254-$ or US-20140286348-$ or US-20130091279-$ or US-20030105389-$ or US-20130139440-$).did. or (US-20130308581-$ or US-20110118888-$ or US-20120079149-$ or US-20080031139-$ or US-20080068156-$ or US-20080307075-$ or US-20170111158-$ or US-20090224906-$ or US-20170078400-$ or US-20110153149-$ or US-20110032952-$ or US-20090138136-$ or US-20030009271-$ or US-20070198144-$ or US-20070021847-$ or US-	US-PGPUB; USPAT	OR	OFF	2018/09/20 16:52

		20110055292-$ or US-20070225873-$ or US-20140215491-$ or US-20090089065-$).did. or (US-8140658-$ or US-7844687-$ or US-7797367-$ or US-7020701-$ or US-6859831-$ or US-6832251-$ or US-6826607-$ or US-6735630-$).did.				
S612	44	(US-20130201316-$ or US-20100030421-$ or US-20120303216-$ or US-20140188343-$ or US-20140236384-$ or US-20070076593-$ or US-20100211258-$ or US-20080100428-$ or US-20060111825-$ or US-20100148940-$ or US-20100201516-$ or US-20110035491-$ or US-20150046582-$ or US-20160062330-$ or US-20060217840-$ or US-20090198380-$ or US-20150295788-$ or US-20120253480-$ or US-20070283005-$ or US-20100071053-$ or US-20130091254-$ or US-20140286348-$ or US-20130091279-$ or US-20030105389-$ or US-20130139440-$ or US-20130308581-$).did. or (US-20110118888-$ or US-20080031139-$ or US-20080068156-$ or US-20080307075-$ or US-20170111158-$ or US-20090224906-$ or US-20090089065-$ or US-20170272316-$ or US-20080077425-$ or US-20040267385-$).did. or (US-8140658-$ or US-7844687-$ or US-7797367-$ or US-7020701-$ or US-6859831-$ or US-6832251-$ or US-6826607-$ or US-6735630-$).did.	US-PGPUB; USPAT	OR	OFF	2018/09/20 16:52
S613	7	(US-20160062330-$ or US-20070283005-$ or US-20100071053-$ or US-20130091279-$ or US-20080307075-$ or US-20090089065-$ or US-20170272316-$).did.	US-PGPUB; USPAT	OR	OFF	2018/09/20 16:53
S614	0	"15992221"	US-PGPUB; USPAT	OR	OFF	2018/09/20 16:57

EAST Search History (Interference)

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9/ 21/ 2018 6:00:55 AM
C:\ Users\ hkhan2\ Documents\ EAST\ Workspaces\ 15992221.wsp

Electronic Acknowledgement Receipt

EFS ID:	33710431
Application Number:	15992221
International Application Number:	
Confirmation Number:	8906
Title of Invention:	SYSTEM AND METHOD FOR SERVER BASED CONTROL
First Named Inventor/Applicant Name:	Yehuda BINDER
Customer Number:	131926
Filer:	Yehuda Binder
Filer Authorized By:	
Attorney Docket Number:	BINDER-014-US7
Receipt Date:	13-SEP-2018
Filing Date:	30-MAY-2018
Time Stamp:	12:54:43
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Response to Election / Restriction Filed	40G-9-2018-Restriction-reply.pdf	264669 d11d311533d74a89e9eb807175bf7e9c3fe97fd2	no	4

Warnings:

Information:	
Total Files Size (in bytes):	264669

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

ATTY.'S DOCKET: BINDER-014-US7

In re Application of:	)	Confirmation No. 8906
	)	
Yehuda BINDER	)	Art Unit: 2456
	)	
Appln. No.: 15/992,221	)	Examiner: Khan, Hassan Abdur
	)	
Filed: May 30, 2018	)	Washington, D.C.
	)	
For: System and Method for Server-Based Control	)	September 13, 2018
	)	

RESPONSE / AMENDMENT:

Honorable Commissioner for Patents
U.S. Patent and Trademark Office
Randolph Building, Mail Stop Amendments
401 Dulany Street
Alexandria, VA 22314

Sir:

In response to the Restriction Requirement dated August 28, 2018 ("Action"), **Remarks/Arguments** begin on page 2 of this paper.

RESPONSE TO RESTRICTION REQUIREMENT

In response to that restriction requirement, applicant elects WITH TRAVERSE claims 1, 7, 9, and 10 (Invention IV, species (b)).

The traversal is based on that the restriction is based on conclusory statement and boilerplate paragraphs, preventing the applicant from recognizing and seeking to counter the restriction ground. ""*when a rejection is so uninformative that it prevents the applicant from recognizing and seeking to counter the grounds for rejection" that the prima facie burden has not been met and the rejection violates the minimal requirements of 35 U.S.C. § 132*". Chester v. Miller, 906 F.2d 1574, 1578 (Fed. Cir. 1990).

For example, it is not clear if the restriction is based on 'subcombinations usable together' or on '*patentably distinct inventions*'. Further, it is not clear WHY 'the inventions are distinct, each from the other' (page 3), WHY some species are '*patentably distinct species*' (pages 3-7), WHY the invention/species are '*independent or distinct*' (page 9), and WHY there is '*a serious search and/or examination burden*' (page 9).

The restriction seems to be based on MPEP 806.05(d) ('*Subcombinations Usable Together*'). It is noted that this chapter clearly requires that such subcombinations '*are not obvious variants*'. The restriction provides no explanation WHY the subcombinations are '*not obvious variants*' as required by the MPEP. Further, the restriction states that the subcombinations are '*usable together in a single combination*'. It is not clear, and not explained in the restriction requirement, for example, HOW WPAN (invention VIII) and WLAN

Amazon EX1003 Page 1001

(invention IX) are '*usable together in a single combination*'. It is further noted that the restriction requirement fails to show the MPEP 806.05(d) requirement that '*two-way distinctness and reasons for insisting on restriction* ***are necessary***' (Emphasis added). Furthermore, the restriction requirement only provides by passing on page 3 a statement that the subcombinations '*have separate utilities*'. It is further noted that the restriction requirement fails to show according to MPEP 806.05(d) that the subcombinations has utility '*other than in the disclosed combination*'.

Further, MPEP §806.04(h) explicitly recites that "*Species Must Be Patentably Distinct From Each Other*". The restriction requirement does not explain WHY and HOW the defined species (such as those of invention XIV shown in pages 5-6) are *Patentably Distinct From Each Other.*

It is further noted that restricting **64** claims to **17** different inventions and **44** total combinations, each combination includes **no more than 3 claims**, is an abuse of discretion of the restriction mechanism, intended only to reduce **serious** burden, in particular in view of the excessive claims fee that is required by the Office, and was paid by the applicant. (*See* https://www.uspto.gov/sites/default/files/documents/casestudies_f_mann_4feb2016.pdf).

A clear explanation of the restriction requirement according to the above is thus requested in the next Office Action.

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The absence of a reply to a specific rejection, issue, or comment, does not signify agreement with that rejection, issue, or comment. In addition, because the arguments made above may not be exhaustive, there may be reasons for patentability of any or all pending claims that have not been expressed.

Nothing in this reply should be understood as conceding any issue with regard to any claim, except as specifically stated in this reply.

The examiner is invited to call undersigned counsel to resolve any remaining issues.

Respectfully submitted,

By /Yehuda Binder/
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Amazon EX1003 Page 1003

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/992,221	05/30/2018	Yehuda BINDER	BINDER-014-US7	8906

131926 7590 08/28/2018

May Patents Ltd. c/o Dorit Shem-Tov
P.O.B 7230
Ramat-Gan, 5217102
ISRAEL

EXAMINER	
KHAN, HASSAN ABDUR-RAHMAN	

ART UNIT	PAPER NUMBER
2456	

MAIL DATE	DELIVERY MODE
08/28/2018	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	**Application No.** 15/992,221	**Applicant(s)** BINDER et al.	
	Examiner HASSAN A KHAN	**Art Unit** 2456	**AIA Status** No

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 2 MONTHS FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☑ Responsive to communication(s) filed on 30 May 2018.

☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

2a)☐ This action is **FINAL.** 2b) ☐ This action is non-final.

3)☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.

4)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims*

5) ☑ Claim(s) 1-64 is/are pending in the application.

5a) Of the above claim(s) _____ is/are withdrawn from consideration.

6) ☐ Claim(s) _____ is/are allowed.

7) ☐ Claim(s) _____ is/are rejected.

8) ☐ Claim(s) _____ is/are objected to.

9) ☑ Claim(s) 1-64 are subject to restriction and/or election requirement

* If any claims have been determined allowable, you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to **PPHfeedback@uspto.gov.**

Application Papers

10)☐ The specification is objected to by the Examiner.

11)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

Certified copies:

a)☐ All b)☐ Some** c)☐ None of the:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

** See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☐ Notice of References Cited (PTO-892)

2) ☐ Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/SB/08b) Paper No(s)/Mail Date _____.

3) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date _____.

4) ☐ Other: _____.

DETAILED ACTION

Election/Restrictions

Claim 1, drawn to an electric powered network appliance, classified in H04L67/12.

Restriction for examination purposes as indicated is required under 35 U.S.C. 121:

I. Claims 2 and 3, drawn to food heating appliance, classified in F24B 1/00.

II. Claims 4 and 5, drawn to food refrigeration appliance, classified in F24D 11/00.

III. Claim 6, drawn to random kitchen appliances, classified in A47J 27/00.

IV. Claim 7, drawn to a device for commanding an actuator operation, classified in H01L 41/09.

V. Claim 12, drawn to a sensor to measure current using galvanometer, classified in G01R 9/02.

VI. Claim 13, drawn to measuring current using Hall effect, classified in G01R 15/20.

VII. Claim 14, drawn to measuring current using non-conductive meter, classified in G01R 31/302.

VIII. Claim 15, drawn to measuring electric power, classified in G01R 21/006.

IX. Claim 20, drawn to a WPAN network, classified in H04Q 2209/43.

X. Claims 23 and 24, drawn to a WLAN network, classified in H04W 84/12.

XI. Claim 25, drawn to broadband network, classified in H04L 12/2801.

XII. Claim 26, drawn to WAN with licensed/unlicensed RF band, classified in H04L 12/2854.

XIII. Claim 28, drawn to a satellite communications network, classified in H04B 7/18595.

XIV. Claim 32, drawn to a sensor based actuator device, classified in H04L 5/1423.

XV. Claims 51, 52 and 53 drawn to a source emitting visible or non-visible light, classified in H01J 9/2274.

XVI. Claim 54, drawn to a device for commanding an actuator operation, classified in H01L 41/09.

XVII. Claim 61, drawn to a device for wireless network addressing, classified in H04W 8/26.

The inventions are distinct, each from the other because of the following reasons:

Inventions I - XVII are related as subcombinations disclosed as usable together in a single combination. The subcombinations are distinct if they do not overlap in scope and are not obvious variants, and if it is shown that at least one subcombination is separately usable. In the instant case, the subcombinations I-XVIII have separate utilities such as a measuring current, measuring power, implementing wireline or a satellite network etc. See MPEP § 806.05(d).

- If Invention I is elected (i.e. Claims 1, 2 and 3 ONLY), the Invention is not further restricted.
- If Invention II is elected (i.e. Claims 1, 4 and 5 ONLY), the Invention is not further restricted.
- If Invention III is elected (i.e. Claims 1 and 6 ONLY), the Invention is not further restricted.
- If Invention IV is elected, the Invention is further restricted as follows:

  This invention contains claims directed to the following patentably distinct species:

  a) The species of subject matter of electrically actuated switch with poles, classified in H01H71/1027, which appears to be the subject matter of at least claim 8 (i.e. Claims 1, 7 and 8 ONLY).

  b) The species of subject matter of an electric relay, classified in H01H 50/021, and which appears to be the subject matter of at least claims 9 and 10 (i.e. Claims 1, 7, 9 and 10 ONLY).

  c) The species of subject matter of a transistor based switch, classified in H02M 2001/0045, which appears to be the subject matter of at least claim 11 (i.e. Claims 1, 7 and 11 ONLY).
- If Invention V is elected (i.e. Claims 1 and 12 ONLY), the Invention is not further restricted.

- If Invention VI is elected (i.e. Claims 1 and 13 ONLY), the Invention is not further restricted.
- If Invention VII is elected (i.e. Claims 1 and 14 ONLY), the Invention is not further restricted.
- If Invention VIII is elected, the Invention is further restricted as follows:

  This invention contains claims directed to the following patentably distinct species:

  a) The species of subject matter of a single or multiphase wattmeter, which appears to be the subject matter of at least claim 16 (i.e. Claims 1, 15 and 16 ONLY).

  b) The species of subject matter of a bolometer, classified in G01J 5/22, which appears to be the subject matter of at least claim 17 (i.e. Claims 1, 15 and 17 ONLY).

  c) The species of subject matter of a wattmeter comprising the current sensor, which appears to be the subject matter of at least claim 18 (i.e. Claims 1, 15 and 18 ONLY).

  d) The species of subject matter of an induction based wattmeter, classified in G05F 3/06, which appears to be the subject matter of at least claim 19 (i.e. Claims 1, 15 and 19 ONLY).
- If Invention IX is elected, the Invention is further restricted as follows:

  This invention contains claims directed to the following patentably distinct species:

  a) The species of subject matter Bluetooth or IEEE 802.15.1-2005, which appears to be the subject matter of at least claim 21 (i.e. Claims 1, 20 and 21 ONLY).

  b) The species of subject matter Zigbee or IEEE 802.15.4-2003, which appears to be the subject matter of at least claim 22 (i.e. Claims 1, 20 and 22 ONLY).
- If Invention X is elected (i.e. Claims 1, 23 and 24 ONLY), the Invention is not further restricted.
- If Invention XI is elected (i.e. Claims 1 and 25 ONLY), the Invention is not further restricted.
- If Invention XII is elected, the Invention is further restricted as follows:

  This invention contains claims directed to the following patentably distinct species:

  a) The species of subject matter Industrial, Scientific and Medical (ISM) radio band, which appears to be the subject matter of at least claim 27 (i.e. Claims 1, 26 and 27 ONLY).

b) The species of subject matter WiMAX, which appears to be the subject matter of at least claim 29 (i.e. Claims 1, 26 and 29 ONLY).

c) The species of subject matter Cellular Network, which appears to be the subject matter of at least claims 30 and 31 (i.e. Claims 1, 26, 30 and 31 ONLY).

- If Invention XIII is elected (i.e. Claims 1 and 28 ONLY), the Invention is not further restricted.
- If Invention XIV is elected, the Invention is further restricted as follows:

This invention contains claims directed to the following patentably distinct species:

a) The species of subject matter of a switch coupled with a sensor and an appliance, which appears to be the subject matter of at least claim 33 (i.e. Claims 1, 32 and 33 ONLY).

b) The species of subject matter of a piezoelectric sensor, which appears to be the subject matter of at least claim 34 (i.e. Claims 1, 32 and 34 ONLY).

c) The species of subject matter of sensor arrangements, which appears to be the subject matter of at least claim 35 (i.e. Claims 1, 32 and 35 ONLY).

d) The species of subject matter of a thermoelectric sensor, which appears to be the subject matter of at least claim 36 (i.e. Claims 1, 32 and 36 ONLY).

e) The species of subject matter of a sensor material, which appears to be the subject matter of at least claim 37 (i.e. Claims 1, 32 and 37 ONLY).

f) The species of subject matter of an eddy-current sensor, which appears to be the subject matter of at least claim 38 (i.e. Claims 1, 32 and 38 ONLY).

g) The species of subject matter of an atmospheric or environmental sensor, which appears to be the subject matter of at least claim 39 (i.e. Claims 1, 32 and 39 ONLY).

h) The species of subject matter of a surface acoustic sensor, which appears to be the subject matter of at least claim 40 (i.e. Claims 1, 32 and 40 ONLY).

i) The species of subject matter of a radiation sensor, which appears to be the subject matter of at least claim 41 (i.e. Claims 1, 32 and 41 ONLY).

j) The species of subject matter of a photoelectric sensor, which appears to be the subject matter of at least claims 42, 43 and 44 (i.e. Claims 1, 32, 42, 43 and 44 ONLY).

k) The species of subject matter of an image sensor, which appears to be the subject matter of at least claims 45 and 46 (i.e. Claims 1, 32, 45 and 46 ONLY).

l) The species of subject matter of an electrochemical sensor, which appears to be the subject matter of at least claims 47 and 48 (i.e. Claims 1, 32, 47 and 48 ONLY).

m) The species of subject matter of an electroacoustic sensor, which appears to be the subject matter of at least claims 49 and 50 (i.e. Claims 1, 32, 49 and 50 ONLY).

- If Invention V is elected (i.e. Claims 1, 51, 52 and 53 ONLY), the Invention is not further restricted.
- If Invention XVI is elected, the Invention is further restricted as follows:

This invention contains claims directed to the following patentably distinct species:

a) The species of subject matter of a motion actuator, which appears to be the subject matter of at least claim 55 (i.e. Claims 1, 54 and 55 ONLY).

b) The species of subject matter of a sounder actuator, which appears to be the subject matter of at least claim 56 (i.e. Claims 1, 54 and 56 ONLY).

c) The species of subject matter of an electromagnetic actuator, which appears to be the subject matter of at least claim 57 (i.e. Claims 1, 54 and 57 ONLY).

d) The species of subject matter of a signal generator actuator, which appears to be the subject matter of at least claim 58 (i.e. Claims 1, 54 and 58 ONLY).

e) The species of subject matter of an electrochemical actuator, which appears to be the subject matter of at least claim 59 (i.e. Claims 1, 54 and 59 ONLY).

f) The species of subject matter of a thermoelectric actuator, which appears to be the subject matter of at least claim 60 (i.e. Claims 1, 54 and 60 ONLY).

- If Invention XVII is elected, the Invention is further restricted as follows:

This invention contains claims directed to the following patentably distinct species:

a) The species of subject matter of a MAC address, which appears to be the subject matter of at least claim 62 (i.e. Claims 1, 61 and 62 ONLY).

b) The species of subject matter of an IP address, which appears to be the subject matter of at least claim 63 (i.e. Claims 1, 61 and 63 ONLY).

c) The species of subject matter of DHCP, which appears to be the subject matter of at least claim 64 (i.e. Claims 1, 61 and 64 ONLY).

Hence, ***ONE*** of the following combination of claims ***MUST*** be selected:

Claims 1, 2 and 3

Claims 1, 4 and 5

Claims 1 and 6

Claims 1, 7 and 8

Claims 1, 7, 9 and 10

Claims 1, 7 and 11

Claims 1 and 12

Claims 1 and 13

Claims 1 and 14

Claims 1, 15 and 16

Claims 1, 15 and 17

Claims 1, 15 and 18

Claims 1, 15 and 19

Claims 1, 20 and 21

Claims 1, 20 and 22

Claims 1, 23 and 24

Claims 1 and 25

Claims 1, 26 and 27

Claims 1, 26 and 29

Claims 1, 26, 30 and 31

Claims 1 and 28

Claims 1, 32 and 33

Claims 1, 32 and 34

Claims 1, 32 and 35

Claims 1, 32 and 36

Claims 1, 32 and 37

Claims 1, 32 and 38

Claims 1, 32 and 39

Claims 1, 32 and 40

Claims 1, 32 and 41

Claims 1, 32, 42, 43 and 44

Claims 1, 32, 45 and 46

Claims 1, 32, 47 and 48

Claims 1, 32, 49 and 50

Claims 1, 51, 52 and 53

Claims 1, 54 and 55

Claims 1, 54 and 56

Claims 1, 54 and 57

Claims 1, 54 and 58

Claims 1, 54 and 59

Claims 1, 54 and 60

Claims 1, 61 and 62

Claims 1, 61 and 63

Claims 1, 61 and 64

The examiner has required restriction between subcombinations usable together. Where applicant elects a subcombination and claims thereto are subsequently found allowable, any claim(s) depending from or otherwise requiring all the limitations of the allowable subcombination will be examined for patentability in accordance with 37 CFR 1.104. See MPEP § 821.04(a). Applicant is advised that if any claim presented in a continuation or divisional application is anticipated by, or includes all the limitations of, a claim that is allowable in the present application, such claim may be subject to provisional statutory and/or nonstatutory double patenting rejections over the claims of the instant application.

Restriction for examination purposes as indicated is proper because all these inventions/species listed in this action are independent or distinct for the reasons given above and there would be a serious search and/or examination burden if restriction were not required because one or more of the following reasons apply:

a) The inventions/species have acquired a separate status in the art in view of their different classification;

b) The inventions/species have acquired a separate status in the art due to their recognized divergent subject matter;

c) The inventions/species require a different field of search (for example, searching different classes/subclasses or electronic resources, or employing different search queries);

d) The prior art applicable to one invention/species would not likely be applicable to another invention/species;

e) The inventions are likely to raise different non-prior art issues under 35 U.S.C. 101 and/or 35 U.S.C. 112, first paragraph.

Applicant is advised that the reply to this requirement to be complete must include (i) an election of am inventions/species to be examined even though the requirement may be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention/species may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse. Traversal must be presented at the time of election in order to be considered timely. Failure to timely traverse the requirement will result in the loss of right to petition under 37 CFR 1.144. If claims are added after the election, applicant must indicate which of these claims are readable upon the elected invention/species.

Should applicant traverse on the ground that the inventions/species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions/species unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103 or pre-AIA 35 U.S.C. 103(a) of the other inventions/species.

Applicant is reminded that upon the cancellation of claims to a non-elected inventions/species, the inventorship must be corrected in compliance with 37 CFR 1.48(a) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. A request to

correct inventorship under 37 CFR 1.48(a) must be accompanied by an application data sheet in accordance with 37 CFR 1.76 that identifies each inventor by his or her legal name and by the processing fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to HASSAN KHAN whose telephone number is (313) 446-6574 and fax number is (571) 483-7559. The examiner can normally be reached on MONDAY - THURSDAY. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor Philip Chea can be reached on (571) 272-3951. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/HASSAN A KHAN/
Examiner, Art Unit 2456

/RICHARD G KEEHN/
Primary Examiner, Art Unit 2456

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	15/992,221	BINDER et al.
	Examiner	**Art Unit**
	HASSAN A KHAN	2456

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

CLAIMS

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIM		DATE								
Final	Original	08/15/2018								
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Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	15/992,221	BINDER et al.
	Examiner	**Art Unit**
	HASSAN A KHAN	2456

CLAIM		DATE								
Final	Original	08/15/2018								
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APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY.DOCKET.NO	TOT CLAIMS	IND CLAIMS
15/992,221	05/30/2018	2447	3585	BINDER-014-US7	64	1

CONFIRMATION NO. 8906

131926
May Patents Ltd. c/o Dorit Shem-Tov
P.O.B 7230
Ramat-Gan, 5217102
ISRAEL

FILING RECEIPT

OC000000100419685

Date Mailed: 06/20/2018

Receipt is acknowledged of this non-provisional patent application. The application will be taken up for examination in due course. Applicant will be notified as to the results of the examination. Any correspondence concerning the application must include the following identification information: the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. **If an error is noted on this Filing Receipt, please submit a written request for a Filing Receipt Correction. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections**

Inventor(s)

Yehuda BINDER, Ramat Gan, ISRAEL;
Benjamin MAYTAL, Mevasseret Zion, ISRAEL;

Applicant(s)

May Patents Ltd., Hod Hasharon, ISRAEL;

Power of Attorney: The patent practitioners associated with Customer Number 131926

Domestic Priority data as claimed by applicant

This application is a CON of 15/361,434 11/27/2016
which is a DIV of 13/733,634 01/03/2013
which claims benefit of 61/584,500 01/09/2012
and claims benefit of 61/620,129 04/04/2012
and claims benefit of 61/637,030 04/23/2012
and claims benefit of 61/647,034 05/15/2012

Foreign Applications for which priority is claimed (You may be eligible to benefit from the **Patent Prosecution Highway** program at the USPTO. Please see http://www.uspto.gov for more information.) - None.
Foreign application information must be provided in an Application Data Sheet in order to constitute a claim to foreign priority. See 37 CFR 1.55 and 1.76.

Permission to Access Application via Priority Document Exchange: Yes

Permission to Access Search Results: No

Applicant may provide or rescind an authorization for access using Form PTO/SB/39 or Form PTO/SB/69 as appropriate.

If Required, Foreign Filing License Granted: 06/19/2018

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 15/992,221**

Projected Publication Date: 09/27/2018

Non-Publication Request: No

Early Publication Request: No
**** SMALL ENTITY ****
Title

SYSTEM AND METHOD FOR SERVER BASED CONTROL

Preliminary Class

709

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications: No

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

Since the rights granted by a U.S. patent extend only throughout the territory of the United States and have no effect in a foreign country, an inventor who wishes patent protection in another country must apply for a patent in a specific country or in regional patent offices. Applicants may wish to consider the filing of an international application under the Patent Cooperation Treaty (PCT). An international (PCT) application generally has the same effect as a regular national patent application in each PCT-member country. The PCT process **simplifies** the filing of patent applications on the same invention in member countries, but **does not result** in a grant of "an international patent" and does not eliminate the need of applicants to file additional documents and fees in countries where patent protection is desired.

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PATENT APPLICATION FEE DETERMINATION RECORD

Substitute for Form PTO-875

Application or Docket Number: 15/992,221

APPLICATION AS FILED - PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA	SMALL ENTITY RATE($)	SMALL ENTITY FEE($)	OR	OTHER THAN SMALL ENTITY RATE($)	OTHER THAN SMALL ENTITY FEE($)
BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A	75		N/A	
SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A	N/A	330		N/A	
EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A	380		N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	64 minus 20 =	* 44	x 50 =	2200	OR		
INDEPENDENT CLAIMS (37 CFR 1.16(h))	1 minus 3 =	*	x 230 =	0.00			
APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $310 ($155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).			600			
MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))				0.00			
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL	3585		TOTAL	

APPLICATION AS AMENDED - PART II

		(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	SMALL ENTITY RATE($)	SMALL ENTITY ADDITIONAL FEE($)	OR	OTHER THAN SMALL ENTITY RATE($)	OTHER THAN SMALL ENTITY ADDITIONAL FEE($)
AMENDMENT A	Total (37 CFR 1.16(i))	*	Minus	**	=	x =		OR	x =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x =		OR	x =	
	Application Size Fee (37 CFR 1.16(s))									
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
						TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	

		(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	RATE($)	ADDITIONAL FEE($)	OR	RATE($)	ADDITIONAL FEE($)
AMENDMENT B	Total (37 CFR 1.16(i))	*	Minus	**	=	x =		OR	x =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x =		OR	x =	
	Application Size Fee (37 CFR 1.16(s))									
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
						TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.

** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".

*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".

The "Highest Number Previously Paid For" (Total or Independent) is the highest found in the appropriate box in column 1.

MAY PATENTS LTD.
Yehuda BINDER, U.S. Patent Agent
B.Sc.E.E.; M.Sc.E.E; M.B.A

May 30, 2018

U.S. Patent and Trademark Office (USPTO)
Customer Service Window
Mail Stop Patent Application
401 Dulany Street
Alexandria, VA 22314

Re: **New Utility Patent Application in U.S.**
Applicant(s): May Patents Ltd.
Title: SYSTEM AND METHOD FOR SERVER BASED CONTROL
Attorney Docket No.: BINDER-014-US7

Sir/Madam,

Attached herewith is the above-identified application for Letters Patent including:

1. Applicant asserts small entity status. See 37 CFR 1.27.
2. Application Data Sheet (PTO/AIA/14);
3. Specification (227 pages), Claims 1-64 (7 pages) and abstract (1 page).
4. Sixty (60) sheets of Drawings (Figures 1-25a)
5. Declaration

   [ ] Newly executed [X] Copy from prior application no. 13/733,634
6. Assignment submitted through EPAS

   [ ] Newly executed [X] Copy from prior application no. 13/733,634
7. Power of Attorney
8. Information Disclosure Statement (PTO/SB/08).
9. Certain documents were previously filed or cited to the USPTO in the prior application 15/657,163, which is relied upon under 35 U.S.C. § 120.

   Applicant(s) identify these documents by attaching an Information Disclosure Statement listing these documents and request that they be considered and made of record in accordance with 37 CFR § 1.98(d). Per Section 1.98(d),

   copies of these documents need not be filed in the application.

e-mail: yehuda@maypatents.com; Mobile: +972-54-4444577

MAY PATENTS LTD.
Yehuda BINDER, U.S. Patent Agent
B.Sc.E.E.; M.Sc.E.E; M.B.A

10. Electronic Payment in the amount of US$ 3,785 is being made by deposit account no. 506726 to cover filing fee calculated as follows:

Application as Filed				**Fee (US$)**
Basic filing fee				75.00
Search Fee				330.00
Examination Fee				380.00
Total Sheets	**Extra Sheets**		**Rate**	
292/100	192/50		200.00	800.00
Claims	**# Filed**	**# Extra**	**Rate**	
Total Claims	1-64	44	50.00	2,200.00
Independent Claims	1	--	230.00	--
Multiple Dependent Claim			410.00	--
Total Filing Fee				3,785.00

11. As in the prior application 15/657,163, please associate the above referenced application with **Customer No. 131926**.
12. The Correspondence Address associated with **Customer No. 131926.**

Submitted by,
May Patents Ltd.

By: / Yehuda Binder /
Yehuda Binder
Registration No. 73,612

e-mail: yehuda@maypatents.com; Mobile: +972-54-4444577

CLAIMS

1. An AC-powered appliance associated with food storage, handling, or preparation for use with a wireless network, the appliance comprising:

an AC connector for connecting the appliance to an AC power source;

a current sensor coupled to the AC connector for measuring an AC current consumed by the appliance;

an antenna for communication over the wireless network;

a wireless transceiver coupled to the antenna for transmitting digital data to, and for receiving digital data from, the wireless network; and

a single enclosure housing the current sensor, the antenna, and the wireless transceiver,

wherein the appliance is controlled or activated in response to digital data received from the wireless network, and

wherein the current sensor is coupled to the wireless transceiver for transmitting digital data in response to the measured AC current to the wireless network.

2. The appliance according to claim 1, wherein the primary function of the appliance is heating food.

3. The appliance according to claim 2, wherein the appliance comprises a microwave oven, an electric mixer, a stove, an oven, or an induction cooker.

4. The appliance according to claim 1, wherein the primary function of the appliance is cooling food.

5. The appliance according to claim 4, wherein the appliance comprises a refrigerator, a freezer, or an iced-tea maker.

6. The appliance according to claim 1, wherein the appliance comprises a dishwasher, a food blender, a beverage maker, or a coffeemaker.

7. The appliance according to claim 1, further comprising in the single enclosure an electrically actuated switch connected to switch electric power to at least part of the appliance, wherein the electrically actuated switch is coupled to the wireless transceiver for being activated in response to digital data received from the wireless network.

8. The appliance according to claim 7, wherein the electrically actuated switch is 'normally open' type, 'normally closed' type, or a changeover switch, wherein the electrically actuated switch is

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'make-before-break' or 'break-before-make' type, or wherein the electrically actuated switch have two or more poles or two or more throws, and contacts of the electrically actuated switch are arranged as a Single-Pole-Double–Throw (SPDT), Double-Pole-Double–Throw (DPDT), Double-Pole-Single–Throw (DPST), or Single-Pole-Changeover (SPCO).

9. The appliance according to claim 7, wherein the electrically actuated switch is a latching or a non-latching type relay.

10. The appliance according to claim 9, wherein the relay is a solenoid-based electromagnetic relay that is a reed relay, wherein the relay is solid-state or semiconductor based, or wherein the relay is a Solid State Relay (SSR).

11. The appliance according to claim 7, wherein the electrically actuated switch is based on an electrical circuit that comprises an open collector transistor, an open drain transistor, a thyristor, a TRIAC, or an opto-isolator.

12. The appliance according to claim 1, wherein the current sensor comprises an ampermeter, galvanometer, or a hot-wire ampermeter.

13. The appliance according to claim 1, wherein the current sensor comprises a current clamp, a current probe, a current transformer, or uses a 'Hall effect'.

14. The appliance according to claim 1, wherein the current sensor is a non-contact or a non-conductive current meter.

15. The appliance according to claim 1, further comprising in the single enclosure a wattmeter connected to the AC connector for measuring the magnitude of the active AC power or an electrical energy consumed by the appliance.

16. The appliance according to claim 15, wherein the wattmeter comprises single or multi-phase AC power or energy meter.

17. The appliance according to claim 15, wherein the wattmeter comprises a bolometer, or wherein the wattmeter accumulates or averages readings.

18. The appliance according to claim 15, wherein the wattmeter comprises the current sensor, or wherein the wattmeter is based on multiplying a measured voltage and the current measured by the current sensor.

19. The appliance according to claim 15, wherein the wattmeter or the current sensor are induction based.

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20. The appliance according to claim 1, wherein the wireless network is a Wireless Personal Area Network (WPAN), the antenna is a WPAN antenna, and the wireless transceiver is a WPAN modem.

21. The appliance according to claim 20, wherein the WPAN is according to, based on, or compatible with, Bluetooth™ or IEEE 802.15.1-2005 standards.

22. The appliance according to claim 20, wherein the WPAN is according to, based on, or compatible with, Zigbee™, IEEE 802.15.4-2003, or Z-Wave™ standards.

23. The appliance according to claim 1, wherein the wireless network is a Wireless Local Area Network (WLAN), the antenna is a WLAN antenna, and the wireless transceiver is a WLAN modem.

24. The appliance according to claim 23, wherein the WLAN is according to, based on, or compatible with, IEEE 802.11-2012, IEEE 802.11a, IEEE 802.11b, IEEE 802.11g, IEEE 802.11n, or IEEE 802.11ac.

25. The appliance according to claim 1, wherein the wireless network is a wireless broadband network.

26. The appliance according to claim 1, wherein the wireless network uses a licensed or unlicensed radio frequency band.

27. The appliance according to claim 26, wherein the unlicensed radio frequency band is an Industrial, Scientific and Medical (ISM) radio band.

28. The appliance according to claim 1, wherein the wireless network is a satellite network, the antenna is a satellite antenna, and the wireless transceiver is a satellite modem.

29. The appliance according to claim 1, wherein the wireless network is a WiMAX network, wherein the antenna is a WiMAX antenna and the wireless transceiver is a WiMAX modem, and wherein the WiMAX network is according to, or based on, or compatible with, IEEE 802.16-2009.

30. The appliance according to claim 1, wherein the wireless network is a cellular telephone network, the antenna is a cellular antenna, and the wireless transceiver is a cellular modem.

31. The appliance according to claim 30, wherein the cellular telephone network is a Third Generation (3G) network that uses UMTS W-CDMA, UMTS HSPA, UMTS TDD, CDMA2000 1xRTT, CDMA2000 EV-DO, or GSM EDGE-Evolution, or wherein the cellular telephone network is a Fourth Generation (4G) network that uses HSPA+, Mobile WiMAX, LTE, LTE-Advanced, MBWA, or is based on IEEE 802.20-2008.

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32. The appliance according to claim 1, further comprising in the single enclosure a first sensor having an output that responds to a physical phenomenon, the first sensor is coupled to the wireless transceiver for transmitting digital data in response to the measured physical phenomenon to the wireless network.

33. The appliance according to claim 32, further comprising an electrically actuated switch connected to switch electric power to at least part of the appliance, the switch is coupled to the first sensor for being activated in response to the physical phenomenon.

34. The appliance according to claim 32, wherein the first sensor is a piezoelectric sensor that includes single crystal material or a piezoelectric ceramics and uses a transverse, longitudinal, or shear effect mode of the piezoelectric effect.

35. The appliance according to claim 32, further comprising multiple sensors arranged as a directional sensor array operative to estimate the number, magnitude, frequency, Direction-Of-Arrival (DOA), distance, or speed of the physical phenomenon impinging the sensor array.

36. The appliance according to claim 32, wherein the first sensor is a thermoelectric sensor that responds to a temperature or to a temperature gradient of an object using conduction, convection, or radiation, and wherein the thermoelectric sensor consists of, or comprises, a Positive Temperature Coefficient (PTC) thermistor, a Negative Temperature Coefficient (NTC) thermistor, a thermocouple, a quartz crystal, or a Resistance Temperature Detector (RTD).

37. The appliance according to claim 32, wherein the first sensor consists of, or comprises, a nanosensor, a crystal, or a semiconductor.

38. The appliance according to claim 32, wherein the first sensor consists of, or comprises, an eddy-current sensor.

39. The appliance according to claim 32, wherein the first sensor consists of, or comprises, an atmospheric or an environmental sensor.

40. The appliance according to claim 32, wherein the first sensor consists of, or comprises, a bulk or surface acoustic sensor.

41. The appliance according to claim 32, wherein the first sensor consists of, or comprises, a radiation sensor that responds to radioactivity, nuclear radiation, alpha particles, beta particles, or gamma rays, and is based on gas ionization.

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42. The appliance according to claim 32, wherein the first sensor consists of, or comprises, a photoelectric sensor that responds to a visible or an invisible light, and wherein the invisible light is infrared, ultraviolet, X-rays, or gamma rays.

43. The appliance according to claim 42, wherein the photoelectric sensor is based on the photoelectric or photovoltaic effect, and consists of, or comprises, a semiconductor component that consists of, or comprises, a photodiode, a phototransistor, or a solar cell.

44. The appliance according to claim 42, wherein the photoelectric sensor is based on Charge-Coupled Appliance (CCD) or a Complementary Metal-Oxide Semiconductor (CMOS) element.

45. The appliance according to claim 32, wherein the first sensor consists of, or comprises, a photosensitive image sensor array comprising multiple photoelectric sensors, for capturing an image and producing electronic image information representing the image, and the appliance further comprising one or more optical lens for focusing the received light and to guide the image, and wherein the image sensor is disposed approximately at an image focal point plane of the one or more optical lens for properly capturing the image.

46. The appliance according to claim 45, further comprising an image processor coupled to the image sensor for providing a digital data video signal according to a digital video format, the digital video signal carrying digital data video based on the captured images, and wherein the digital video format is based on one out of: TIFF (Tagged Image File Format), RAW format, AVI, DV, MOV, WMV, MP4, DCF (Design Rule for Camera Format), ITU-T H.261, ITU-T H.263, ITU-T H.264, ITU-T CCIR 601, ASF, Exif (Exchangeable Image File Format), and DPOF (Digital Print Order Format) standards.

47. The appliance according to claim 32, wherein the first sensor consists of, or comprises, an electrochemical sensor that responds to an object chemical structure, properties, composition, or reactions.

48. The appliance according to claim 47, wherein the electrochemical sensor consists of, or comprises, a pH meter or a gas sensor responding to a presence of radon, hydrogen, oxygen, or Carbon-Monoxide (CO), or wherein the electrochemical sensor is based on optical detection or on ionization and is a smoke, a flame, or a fire detector, or is responsive to combustible, flammable, or toxic gas.

49. The appliance according to claim 32, wherein the first sensor consists of, or comprises, an electroacoustic sensor that responds to an audible or inaudible sound.

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50. The appliance according to claim 49, wherein the electroacoustic sensor is an omnidirectional, unidirectional, or bidirectional microphone that is based on the sensing an incident sound based motion of a diaphragm or a ribbon, and the microphone consists of, or comprises, a condenser, an electret, a dynamic, a ribbon, a carbon, or a piezoelectric microphone.

51. The appliance according to claim 1, further comprising in the single enclosure a light source that emits visible or non-visible light for illumination or indication, the non-visible light is infrared, ultraviolet, X-rays, or gamma rays, the light source is coupled to the AC connector for being powered from the AC power, and wherein the light source is coupled to the wireless transceiver for illumination or indication in response to digital data received from the wireless network.

52. The appliance according to claim 51, wherein the light source is coupled to the current sensor for illumination or indication in response to the measured AC current.

53. The appliance according to claim 51, wherein the light source consists of, or comprises, a lamp, an incandescent lamp, a gas discharge lamp, a fluorescent lamp, a Solid-State Lighting (SSL), a Light Emitting Diode (LED), an Organic LED (OLED), a polymer LED (PLED), or a laser diode.

54. The appliance according to claim 1, further comprising in the single enclosure an actuator for affecting a physical phenomenon, wherein the actuator is coupled to the wireless transceiver for being activated or controlled in response to digital data received from the wireless network.

55. The appliance according to claim 54, wherein the actuator consists of, or comprises, a motion actuator that causes linear or rotary motion, and the appliance further comprising a conversion mechanism for respectfully converting to rotary or linear motion based on a screw, a wheel and axle, or a cam.

56. The appliance according to claim 54, wherein the actuator consists of, or comprises, a sounder for converting an electrical energy to omnidirectional, unidirectional, or bidirectional pattern emitted, audible or inaudible, sound waves.

57. The appliance according to claim 54, wherein the actuator consists of, or comprises, an electromagnetic coil or an electromagnet operative for generating a magnetic or electric field.

58. The appliance according to claim 54, wherein the actuator consists of, or comprises, an electrical signal generator.

59. The appliance according to claim 54, wherein the actuator consists of, or comprises, a chemical or an electrochemical actuator, and is operative for producing, changing, or affecting a matter structure, properties, composition, process, or reactions.

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60. The appliance according to claim 54, wherein the actuator consists of, or comprises, a thermoelectric actuator and is a heater or a cooler, operative for affecting the temperature of a solid, a liquid, or a gas object, and is coupled to the object by conduction, convection, force convention, thermal radiation, or by the transfer of energy by phase changes.

61. The appliance according to claim 1, further being addressable in the wireless network using distinct locally administered addresses or a universally administered digital addresses stored in a volatile or non-volatile memory in the single enclosure, which uniquely identifying the appliance in the wireless network or in the Internet.

62. The appliance according to claim 61, wherein the digital address is a MAC layer address that is MAC-48, EUI-48, or EUI-64 address type.

63. The appliance according to claim 61, wherein the digital address is a layer 3 address and is static or dynamic IP address that is IPv4 or IPv6 type address.

64. The appliance according to claim 61, wherein the digital address is autonomously assigned, or wherein the digital address is assigned by another appliance using DHCP.

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ABSTRACT

A system and method in a building or vehicle for an actuator operation in response to a sensor according to a control logic, the system comprising a router or a gateway communicating with a device associated with the sensor and a device associated with the actuator over in-building or in-vehicle networks, and an external Internet-connected control server associated with the control logic implementing a PID closed linear control loop and communicating with the router over external network for controlling the in-building or in-vehicle phenomenon. The sensor may be a microphone or a camera, and the system may include voice or image processing as part of the control logic. A redundancy is used by using multiple sensors or actuators, or by using multiple data paths over the building or vehicle internal or external communication. The networks may be wired or wireless, and may be BAN, PAN, LAN, WAN, or home networks.

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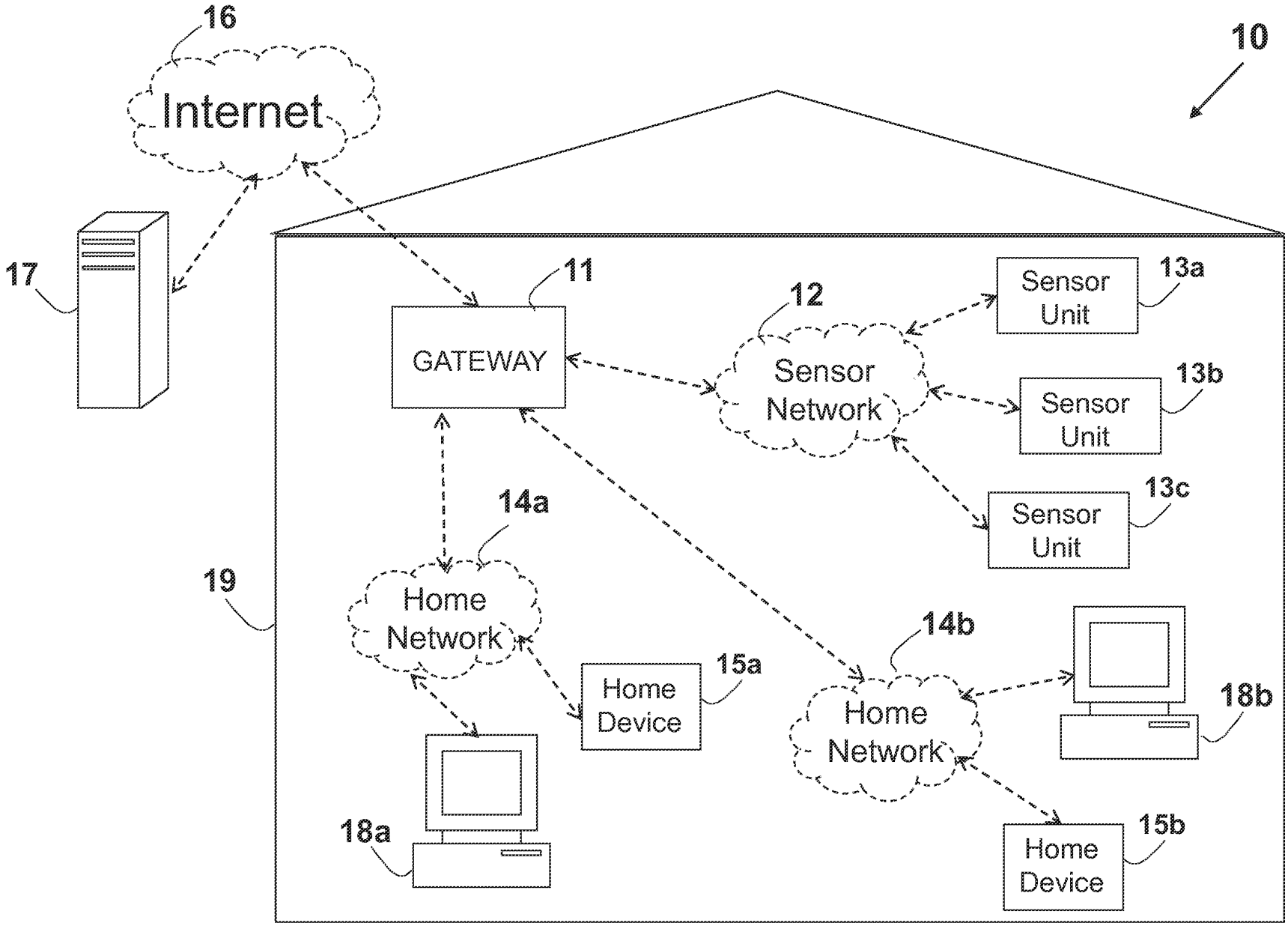

FIG. 1 (Prior Art)

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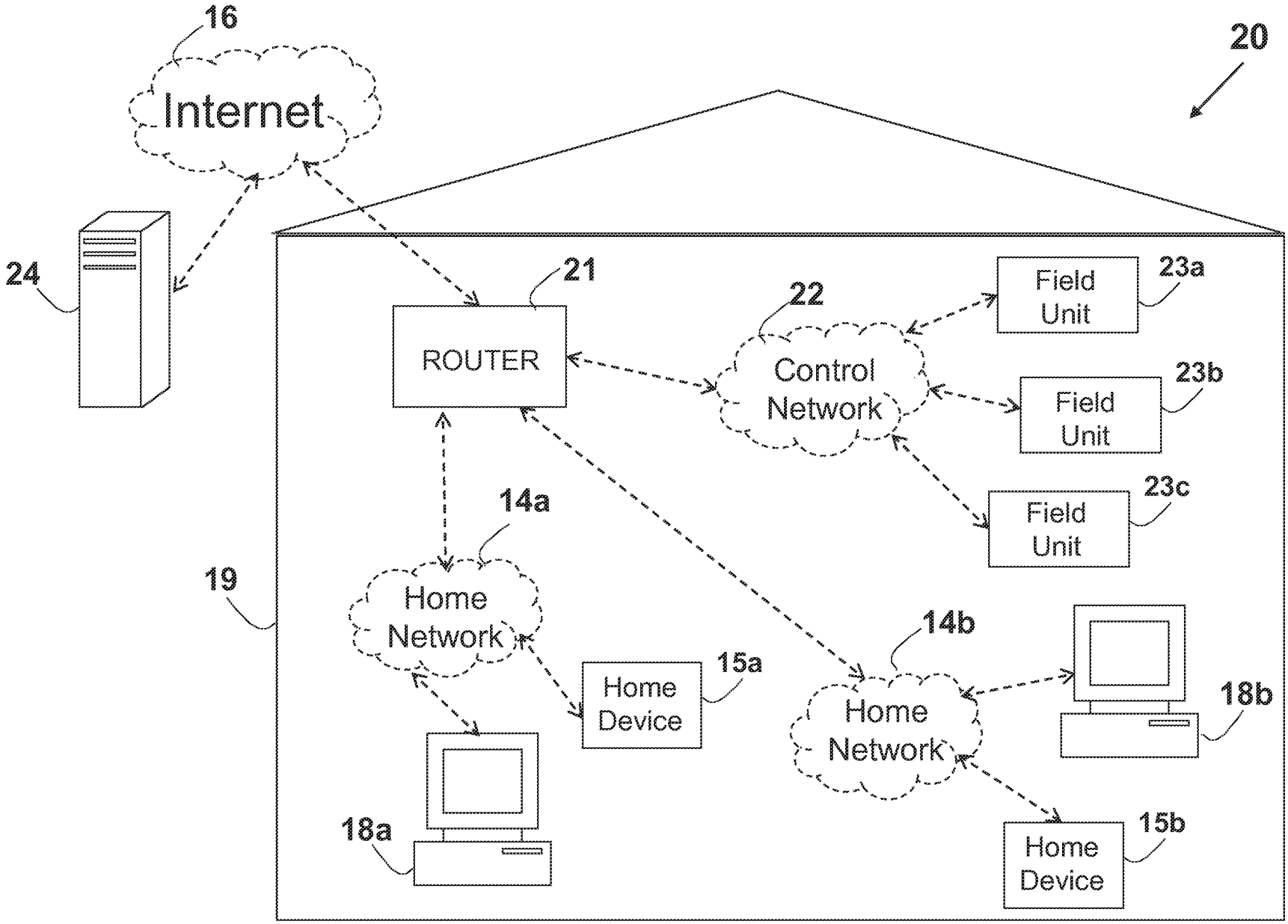

FIG. 2

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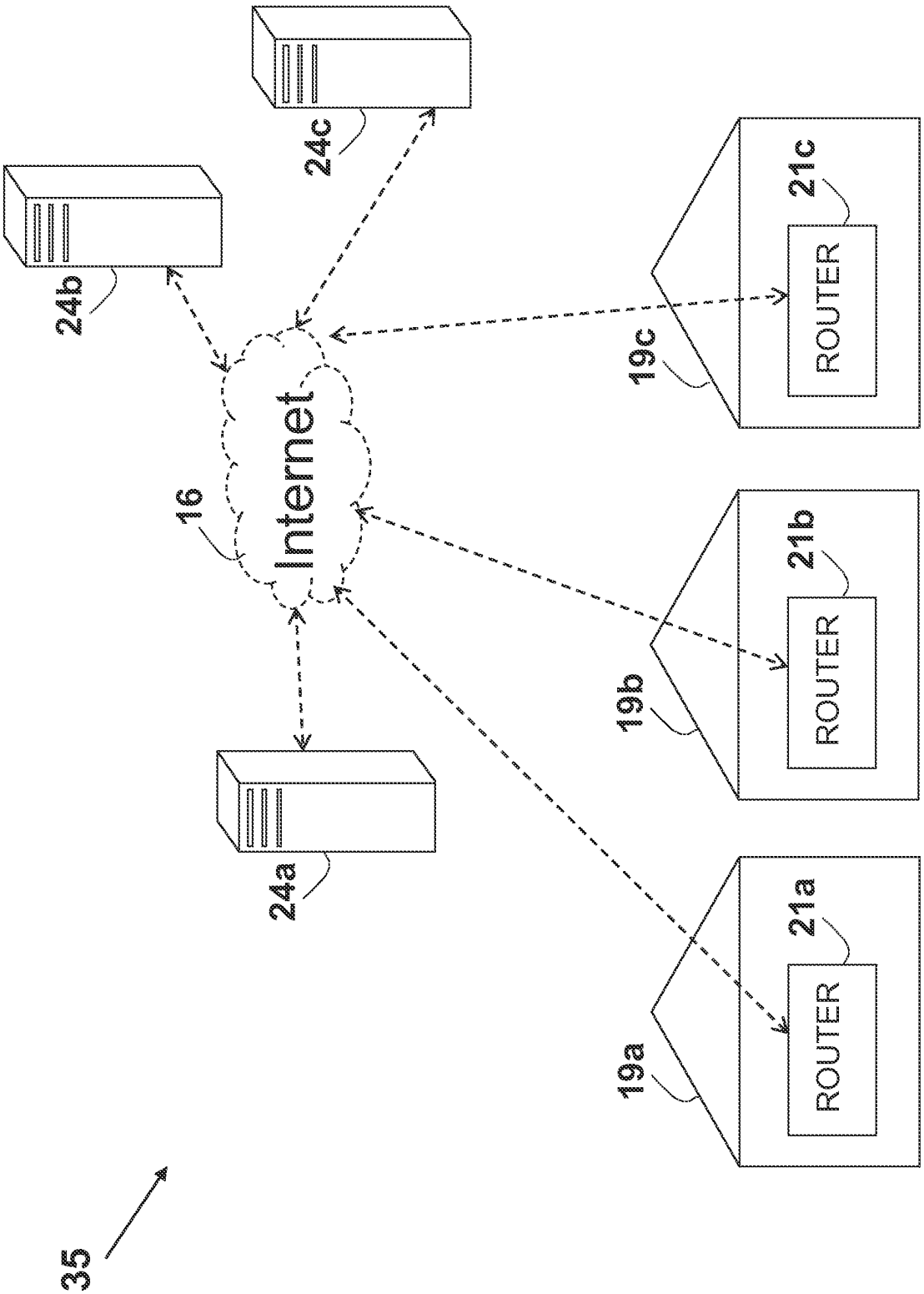
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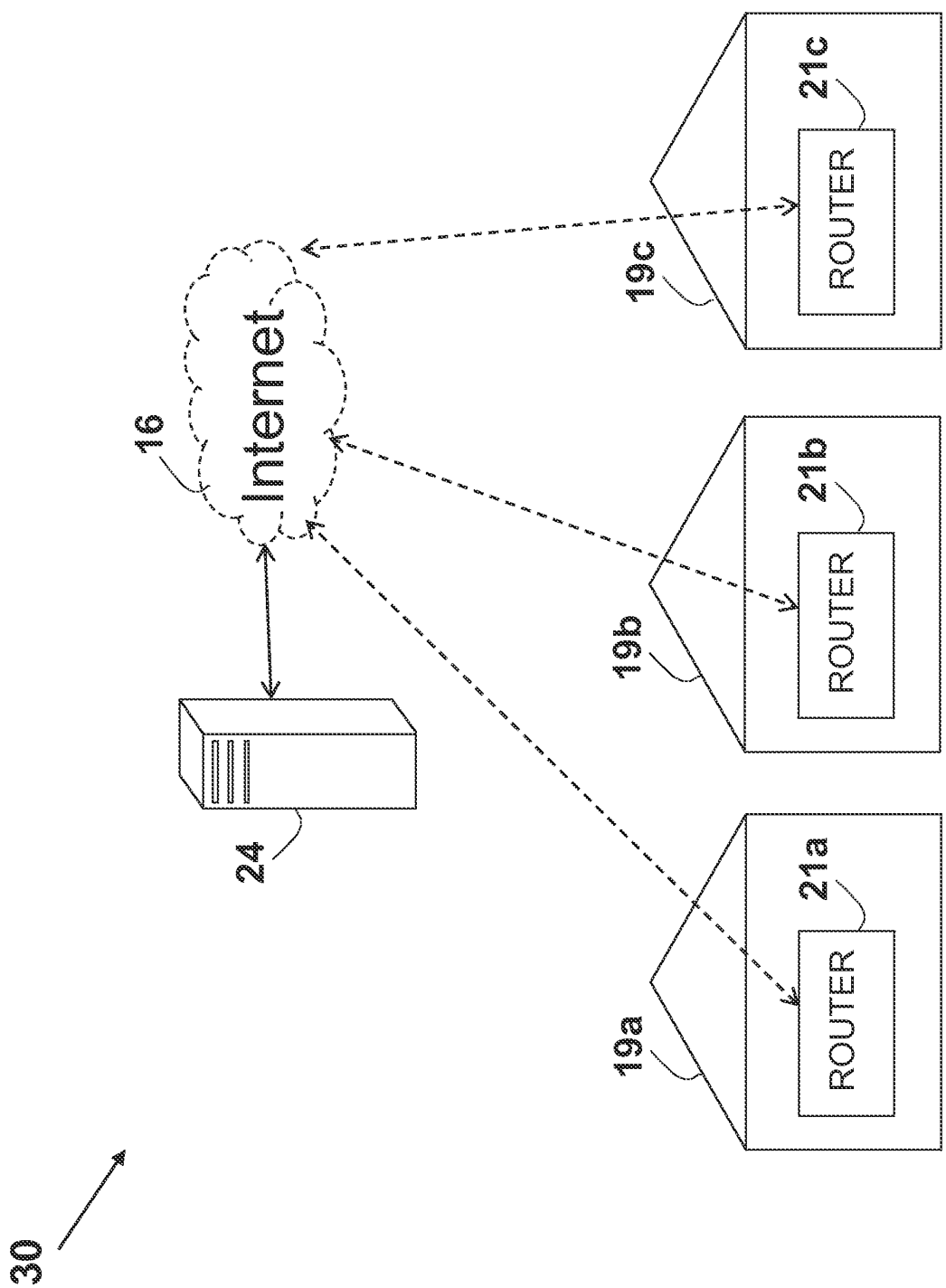
ROUTER
ROUTER
ROUTER

FIG. 3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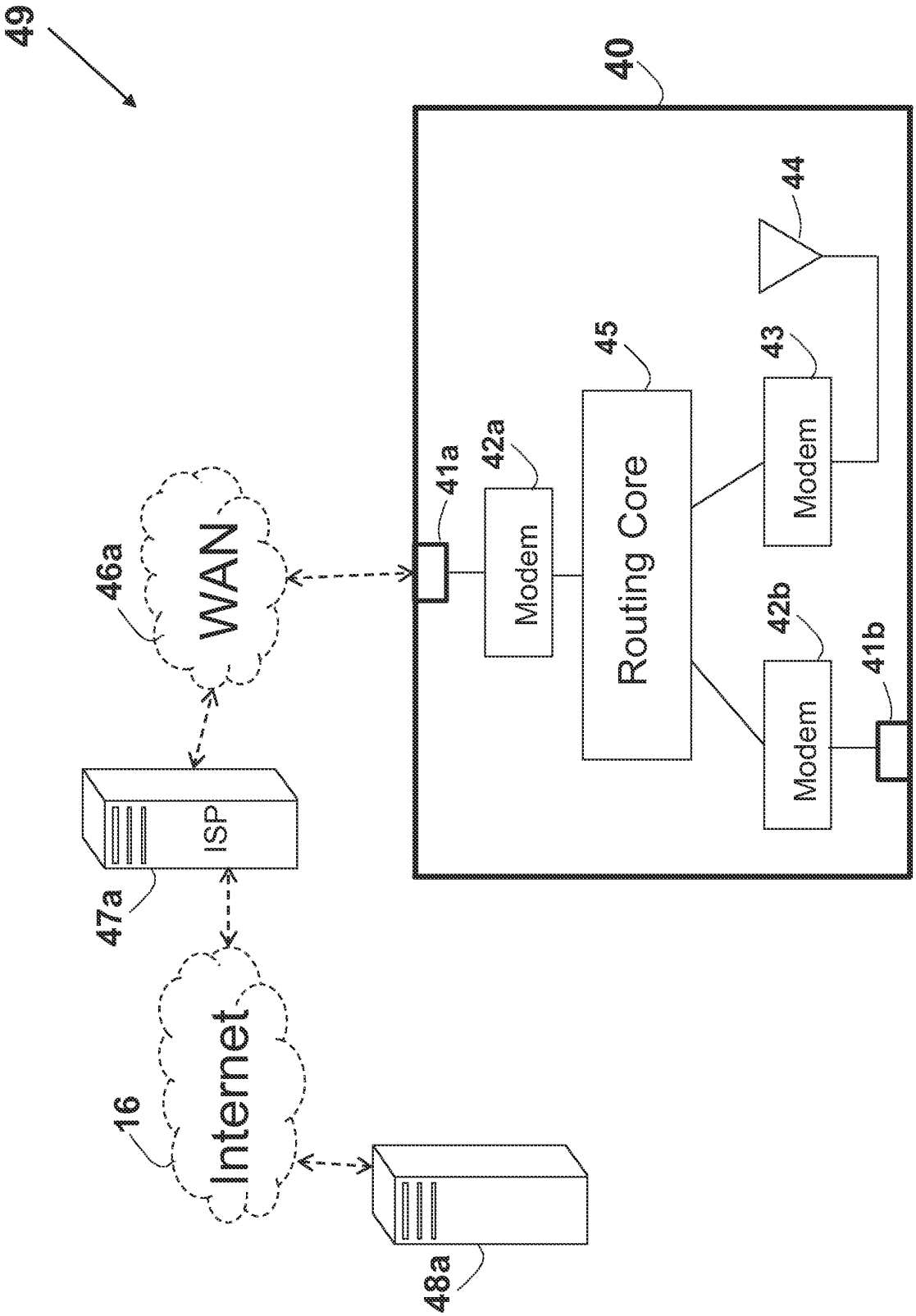
ROUTER

FIG. 3a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44
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41a
WAN
46a
42b
41b
Modem
ISP
47a
Internet
16
48a

FIG. 4

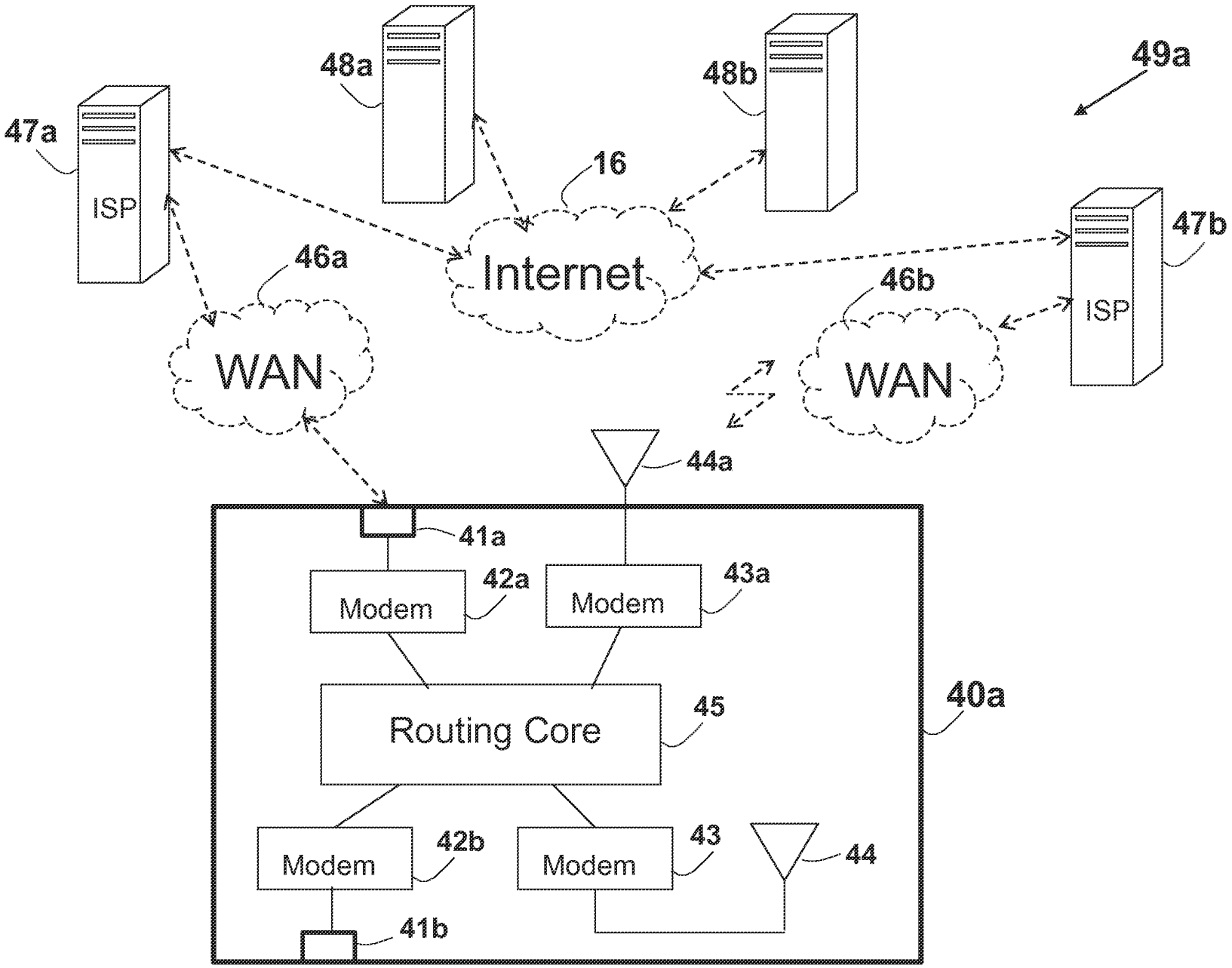

FIG. 4a

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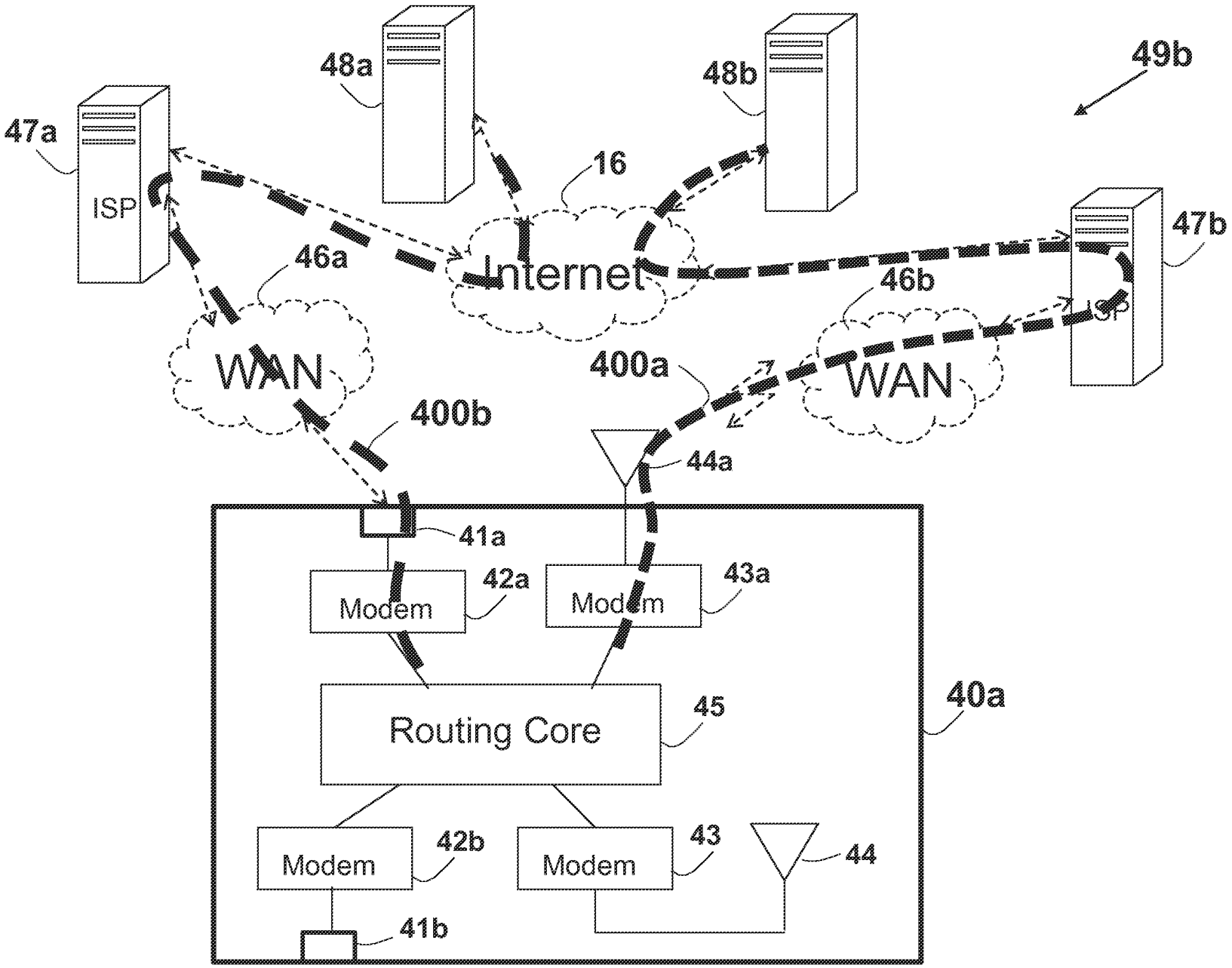

FIG. 4b

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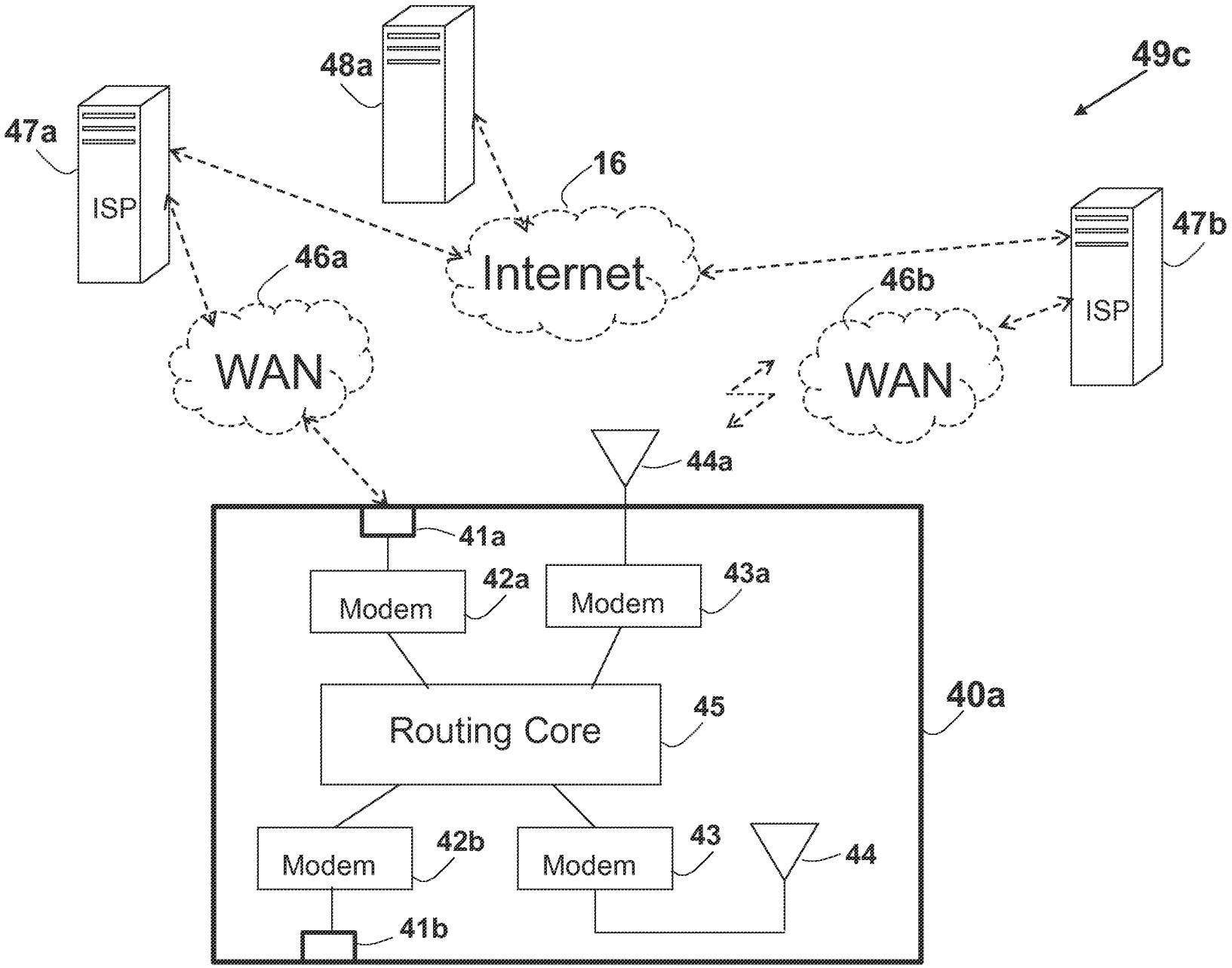

FIG. 4c

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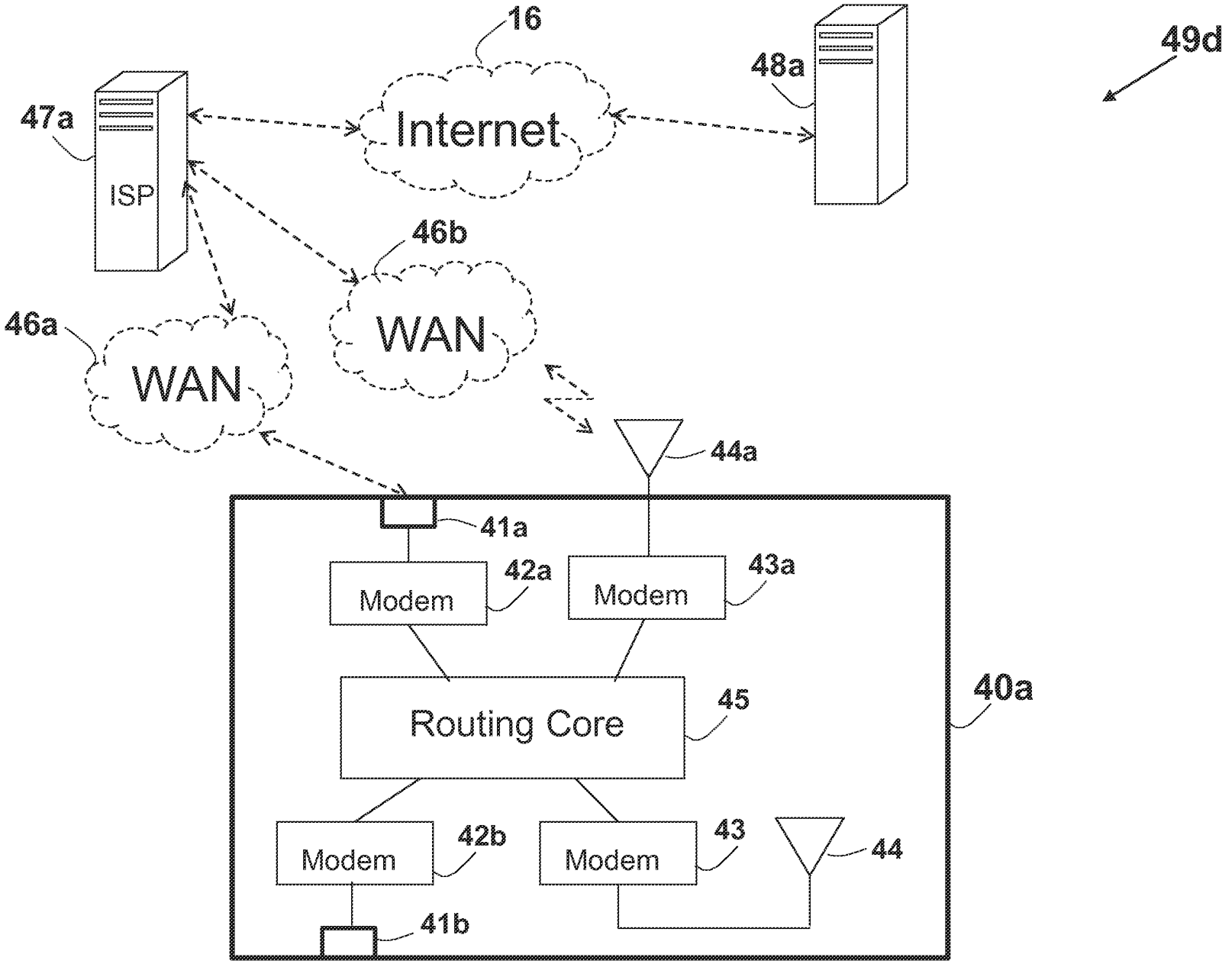

FIG. 4d

Amazon EX1003 Page 1041

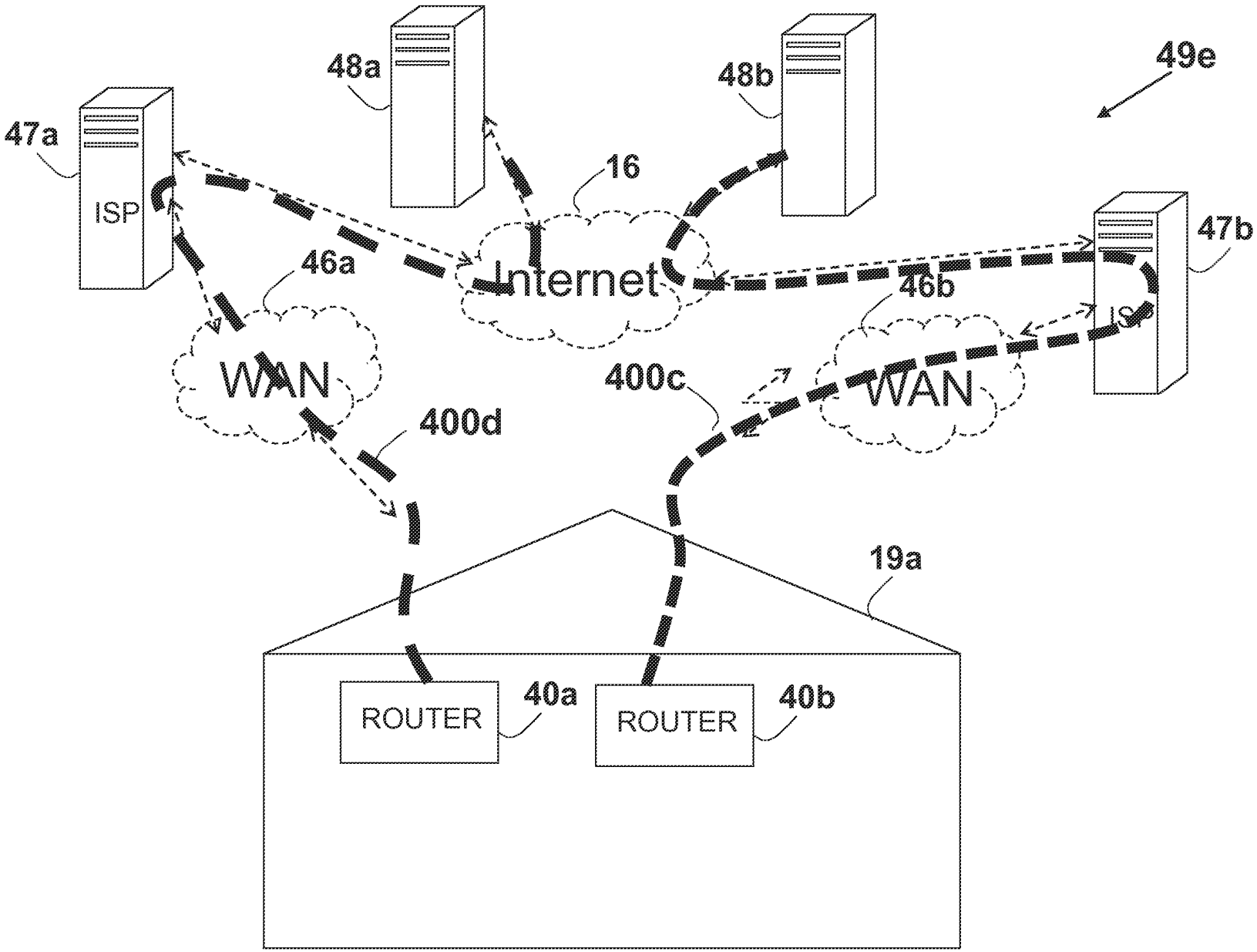

FIG. 4e

Amazon EX1003 Page 1042

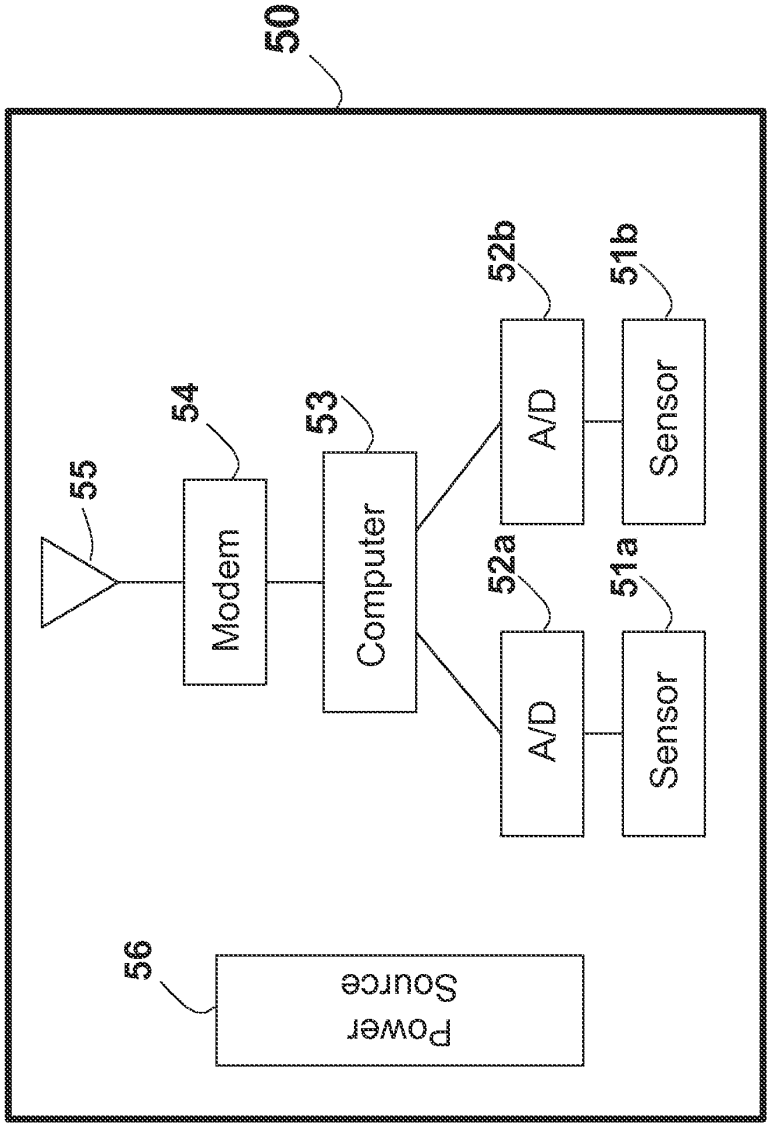
50
55
54
Modem
53
Computer
52b
A/D
51b
Sensor
52a
A/D
51a
Sensor
56
Power Source

FIG. 5

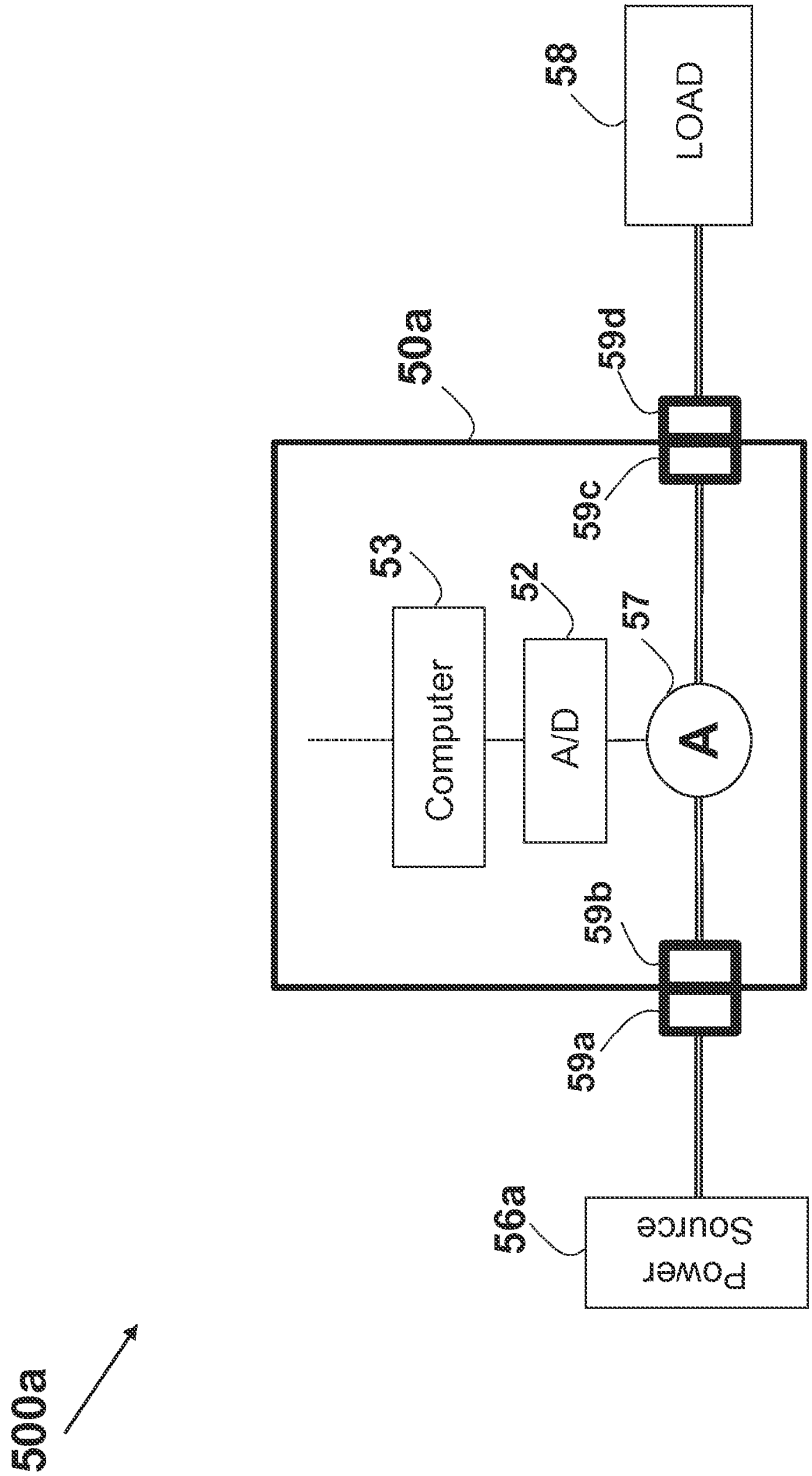
500a
56a
Power Source
59a
59b
59c
59d
50a
58
LOAD
53
Computer
52
A/D
57
A

FIG. 5a

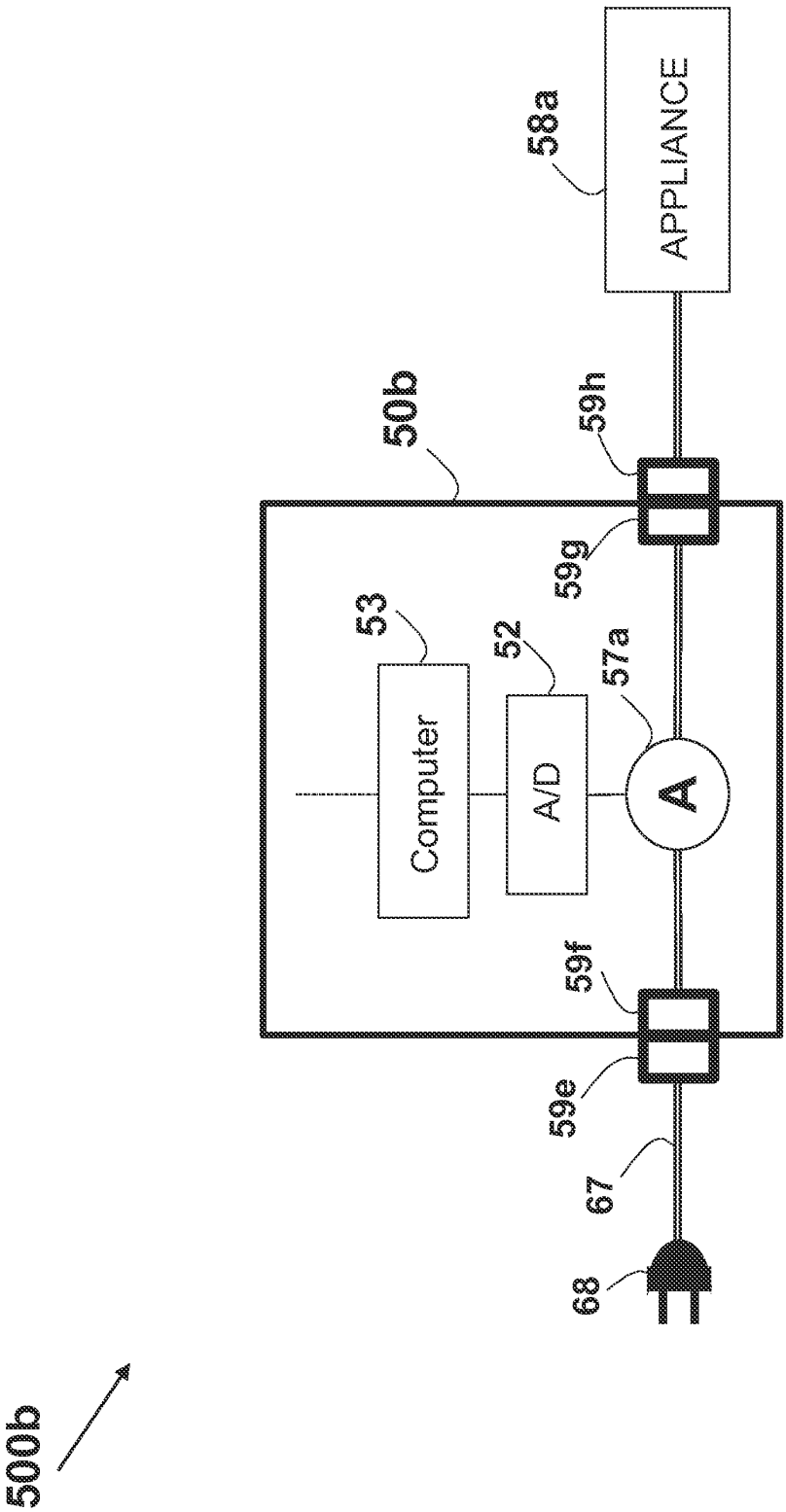
500b
58a
APPLIANCE
50b
59h
59g
53
52
57a
Computer
A/D
A
59f
59e
67
68

FIG. 5b

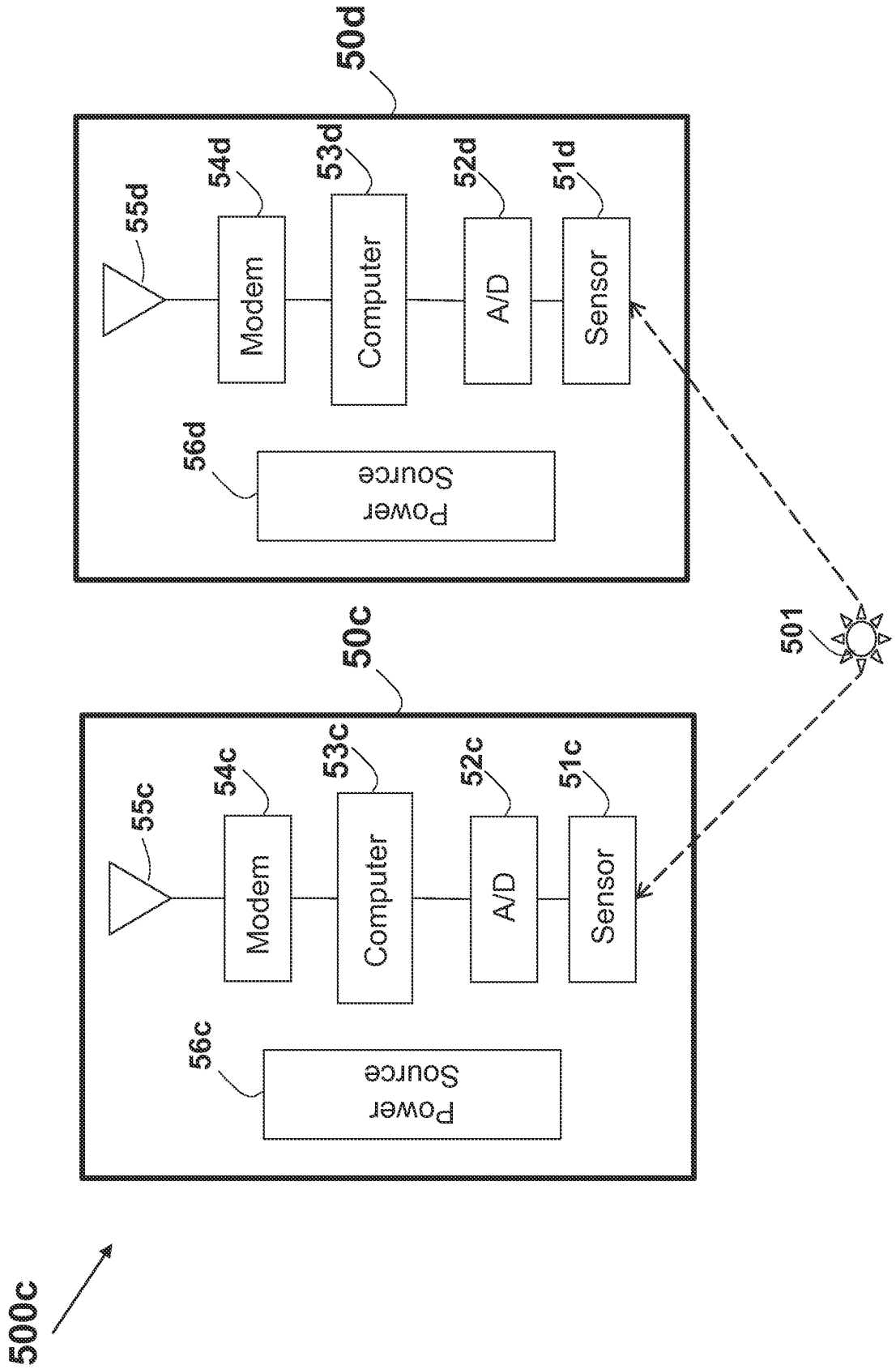
500c
50c
50d
501
51c
52c
53c
54c
55c
56c
51d
52d
53d
54d
55d
56d
Sensor
A/D
Computer
Modem
Power Source

FIG. 5c

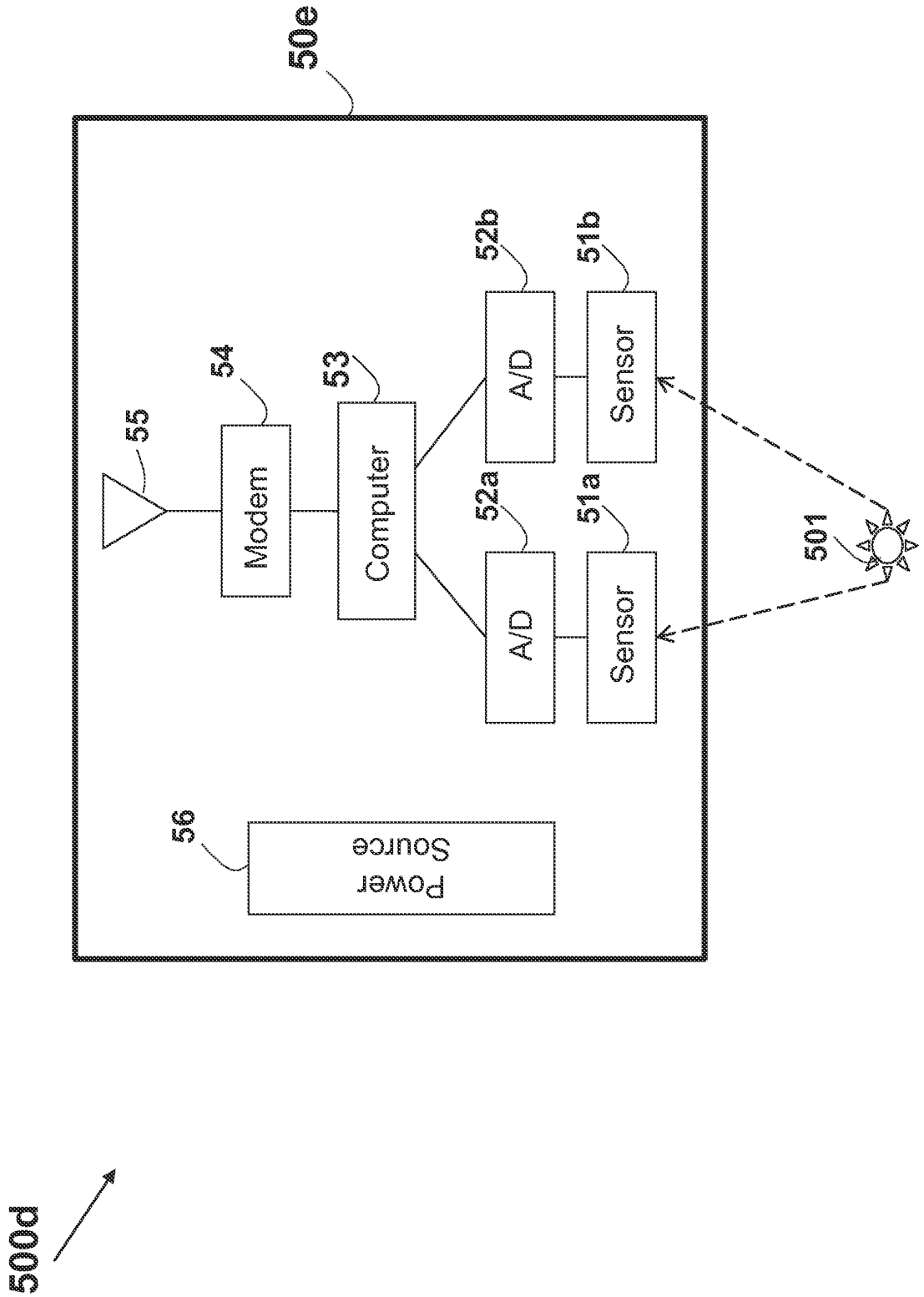
500d
50e
55
54
Modem
53
Computer
52b
A/D
51b
Sensor
52a
A/D
51a
Sensor
501
56
Power Source

FIG. 5d

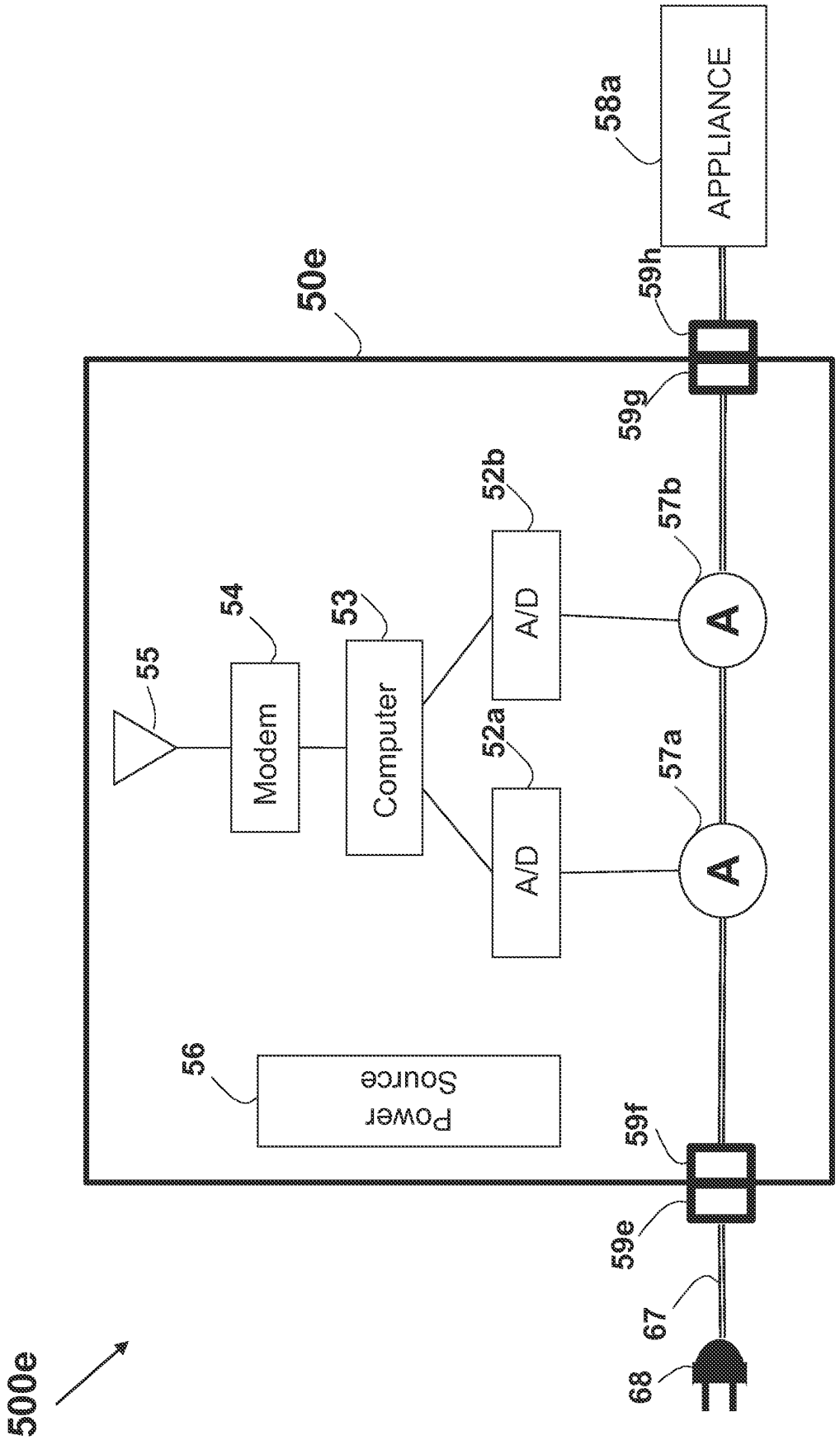
500e
50e
58a
APPLIANCE
59h
59g
59f
59e
67
68
57b
57a
A
A
52b
52a
A/D
A/D
53
Computer
54
Modem
55
56
Power
Source

FIG. 5e

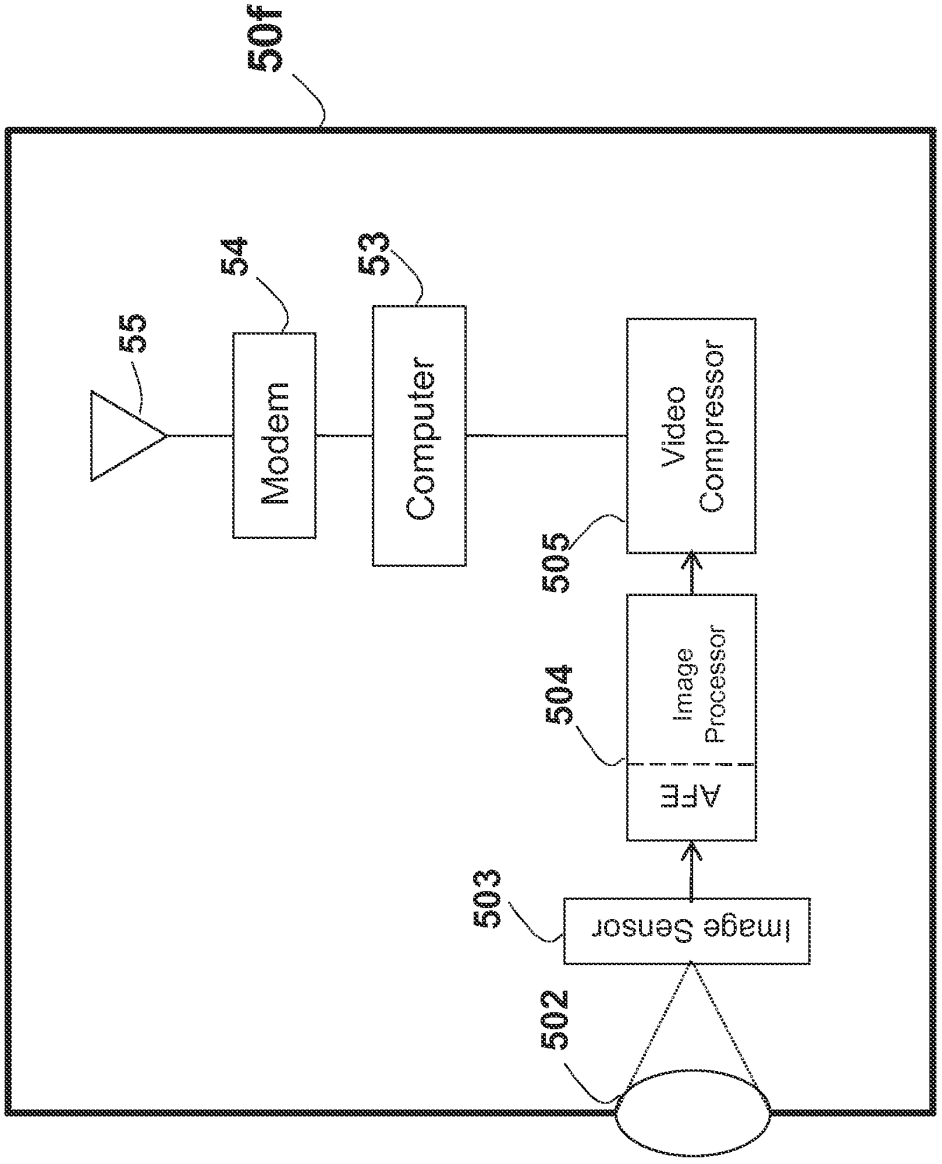
50f
55
54
Modem
53
Computer
Video Compressor
505
504
AFE
Image Processor
503
Image Sensor
502

FIG. 5f

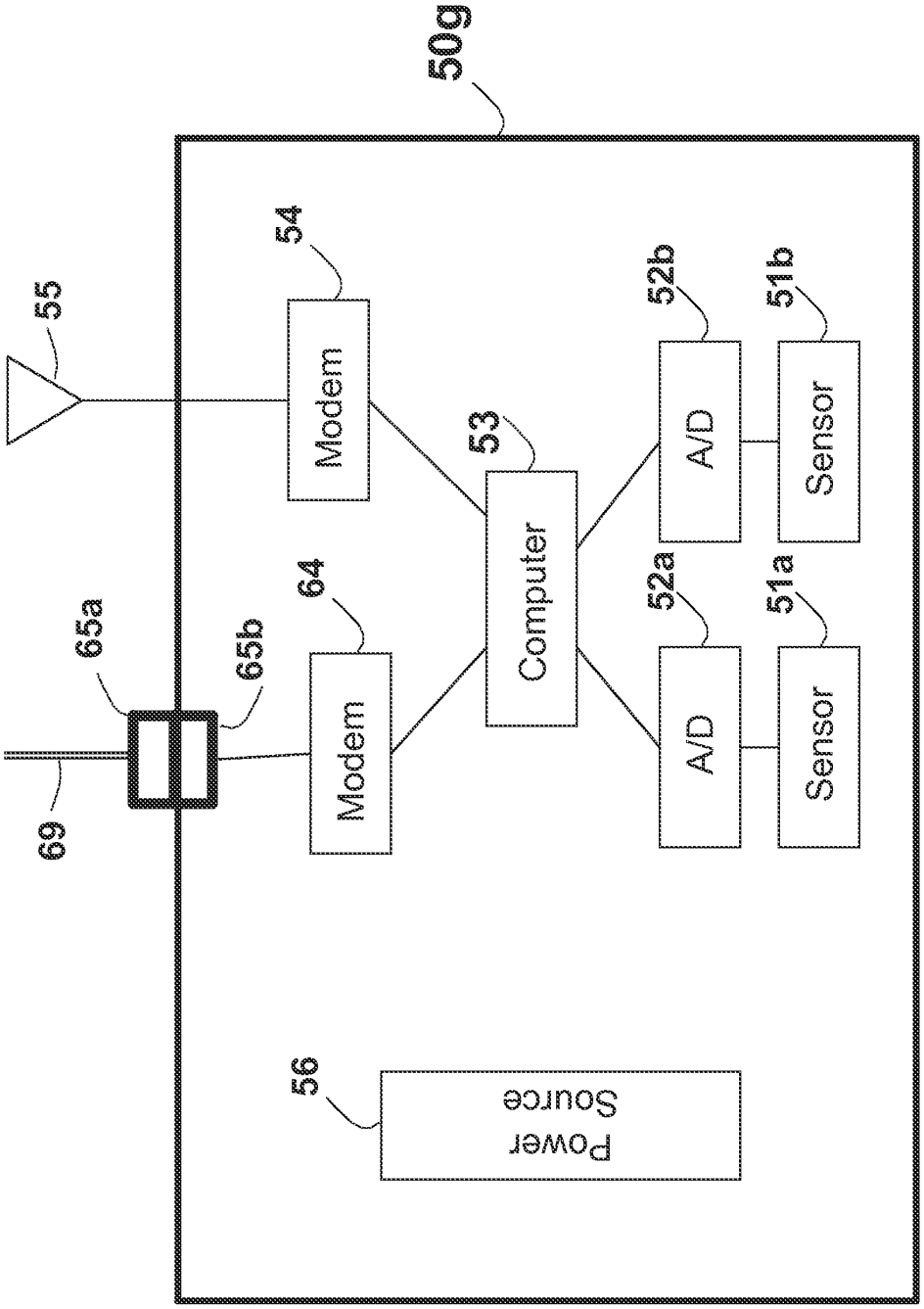
50g
54
55
Modem
52b
51b
A/D
Sensor
53
Computer
64
65a
65b
52a
51a
Modem
A/D
Sensor
69
56
Power
Source

FIG. 5g