UNITED STATES PATENT AND TRADEMARK OFFICE

CERTIFICATE OF CORRECTION

PATENT NO. : 11,190,590 B2
APPLICATION NO. : 15/992221
DATED : November 30, 2021
INVENTOR(S) : Yehuda Binder et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In the Claims

In Column 171, Line 18, Claim 1, add “a” before the word “food”;
In Column 171, Line 38, Claim 1, add “further” before the word “coupled”;
In Column 171, Line 56, Claim 7, add “a” before the word “switch”;
In Column 172, Line 29, Claim 16, add “a” before the word “single”;
In Column 173, Line 37, Claim 33, add “a” before the word “single”;
In Column 173, Line 42, Claim 34, replace the word “the” with – a –;
In Column 173, Line 47, Claim 35, add “a” before the word “conduction”;
In Column 173, Line 67, Claim 40, add “a” before the word “gas”;
In Column 174, Line 27, Claim 45, add “the” after the word “carrying”;
In Column 174, Line 32, Claim 45, instead of “COIR 601” should be - CCIR 601 -;
In Column 174, Line 43, Claim 47, add “an” before the word “optical” and before the word “ionization”;
In Column 174, Line 45, Claim 47, add “a” before the word “combustible”;
In Column 174, Line 55, Claim 50, add “a” before the word “visible”;
In Column 175, Line 7, Claim 53, replace the word “a” with – the –;
In Column 175, Line 13, Claim 54, add “a” before the word “linear”;
In Column 175, Line 15, Claim 54, add “the” before the word “rotary”; and
In Column 176, Line 14, Claim 60, delete the word “a”.

Signed and Sealed this
Seventh Day of June, 2022

Katherine Kelly Vidal

Katherine Kelly Vidal
Director of the United States Patent and Trademark Office

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

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 05/16/2022

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**
05/16/2022	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.

UNITED STATES PATENT AND TRADEMARK OFFICE

Commissioner for Patents
United States Patent and Trademark Office
P.O. Box 1450
Alexandria, VA 22313-1450
www.uspto.gov

Patent No.: 11190590
Issue Date: 11/30/2021
Appl. No.: 15/992,221
Filed: 05/30/2018

PART (A) RESPONSE FOR CERTIFICATES OF CORRECTION

This is a decision on the Certificate of Correction request filed 24 April 2022.

The request for issuance of Certificate of Correction for the above-identified correction(s) under the provisions of 37 CFR 1.322 and/or 1.323 is hereby:

(Check one)
☑ Approved ☐ Approved in Part ☐ Denied

Comments: ____

PART (B) PETITION UNDER 37 CFR 1.324 OR 37 CFR 1.48

☐ This is a decision on the petition filed ____ to correct inventorship under 37 CFR 1.324.

☐ This is a decision on the request under 37 CFR 1.48, petition filed ____. In view of the fact that the patent has already issued, the request under 37 CFR 1.48 has been treated as a petition to correct inventorship under 37 CFR 1.324.

The petition is hereby: ☐ Granted ☐ Dismissed

Comment: ____

The patented filed is being forwarded to Certificate of Corrections Branch for issuance of a certificate naming only the actual inventor or inventors.

/Chris Parry/
Supervisory Patent Examiner, Art Unit 2451
Technology Center 2400
Phone: (571)272-8328

Certificates of Correction Branch email: CustomerServiceCoC@uspto.gov CoC Central Phone Number: (703) 756-1814

PTO/SB/44 (09-07)
Approved for use through 01/31/2020. OMB 0651-0033
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 displays a valid OMB control number.
(Also Form PTO-1050)

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 11,190,590

APPLICATION NO.: 15/992,221

ISSUE DATE : November 30, 2021

INVENTOR(S) : Yehuda BINDER

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In Column 171, Line 18, Claim 1, to add "a" before the word "food";
In Column 171, Line 38, Claim 1, to add "further" before the word "coupled";
In Column 171, Line 56, Claim 7, to add "a" before the word "switch";
In Column 172, Line 29, Claim 16, to add "a" before the word "single";
In Column 173, Line 37, Claim 33, to add "a" before the word "single";
In Column 173, Line 42, Claim 34, to replace the word "the" with – a -
In Column 173, Line 47, Claim 35, to add "a" before the word "conduction";
In Column 173, Line 67, Claim 40, to add "a" before the word "gas";
In Column 174, Line 27, Claim 45, to add "the" after the word "carrying";
In Column 174, Line 32, Claim 45, instead of "COIR 601" should be - CCIR 601 -;
In Column 174, Line 43, Claim 47, to add "an" before the word "optical" and before the word "ionization";
In Column 174, Line 45, Claim 47, to add "a" before the word "combustible";
In Column 174, Line 55, Claim 50, to add "a" before the word "visible";
In Column 175, Line 7, Claim 53, to replace the word "a" with – the –
In Column 175, Line 13, Claim 54, to add "a" before the word "linear";
In Column 175, Line 15, Claim 54, to add "the" before the word "rotary"; and
In Column 176, Line 14, Claim 60, to delete the word "a".

MAILING ADDRESS OF SENDER (Please do not use Customer Number below):

BINDER Yehuda
May Patents Ltd. c/o Dorit Shem-Tov
P.O.B 7230

This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. 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 1.0 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: Attention Certificate of Corrections Branch, 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.

Privacy Act Statement

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.

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 disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
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 inspection 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.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

ATTY.'S DOCKET: BINDER-014-US7

In re:	)	Confirmation No. 8906
	)	
US Patent No. 11,190,590	)	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	)	April 24, 2022
	)	

REQUEST FOR CERTIFICATE OF CORRECTION *OF OFFICE MISTAKE (37 CFR 1.322)* AND *APPLICANT'S MISTAKE (37 CFR 1.323)*

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

Sir:

The following is a request for a certificate of correction in US Application No. 15/992,221, now US Patent No. 11,190,590 based on ***37 CFR 1.322***.

A certificate of correction under 35 USC 255 is respectfully requested in the above identified patent for the following reasons:

Claim 46 as amended in the response to the PTAB Decision dated July 22, 2021 (hereinafter the “Action”), states:

"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 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." (bolded was added).

The exact location where the error appears in the corresponding Claim 45,

Column 174, Line 32, instead of "COIR 601" should be - CCIR 601 -.

Furthermore, a certificate of correction under 35 USC 255 is respectfully requested in the above identified patent in accordance with the first statutory requirement concerns the nature, i.e. a typographical nature, of the mistake for which a correction is sought.

Amazon EX1003 Page 7

The exact location where the errors appear in the patent are as follows:

In Column 171, Line 18, Claim 1, to add "a" before the word "food";

In Column 171, Line 38, Claim 1, to add "further" before the word "coupled";

In Column 171, Line 56, Claim 7, to add "a" before the word "switch";

In Column 172, Line 29, Claim 16, to add "a" before the word "single";

In Column 173, Line 37, Claim 33, to add "a" before the word "single";

In Column 173, Line 42, Claim 34, to replace the word "the" with – a –

In Column 173, Line 47, Claim 35, to add "a" before the word "conduction";

In Column 173, Line 67, Claim 40, to add "a" before the word "gas";

In Column 174, Line 27, Claim 45, to add "the" after the word "carrying";

In Column 174, Line 43, Claim 47, to add "an" before the word "optical" and before the word "ionization";

Amazon EX1003 Page 8

In Column 174, Line 45, Claim 47, to add "a" before the word "combustible";

In Column 174, Line 55, Claim 50, to add "a" before the word "visible";

In Column 175, Line 7, Claim 53, to replace the word "a" with – the –

In Column 175, Line 13, Claim 54, to add "a" before the word "linear";

In Column 175, Line 15, Claim 54, to add "the" before the word "rotary"; and

In Column 176, Line 14, Claim 60, to delete the word "a".

Amazon EX1003 Page 9

Electronic Payment in the amount of US$ 160 is being made by deposit account no. 506726 to cover the fee for providing a correction of applicant's mistake, as set forth in 37 CFR 1.20(a).

The requested correction is attached on Form PTO 1050.

Respectfully submitted,

By / Yehuda Binder /
Yehuda Binder
Registration No. 73,612

Tel: +972-54-4444577
Fax: +972-9-7442619
Email: yehuda@maypatents.com

Amazon EX1003 Page 10

Electronic Patent Application Fee Transmittal

Application Number:	15992221
Filing Date:	30-May-2018
Title of Invention:	SYSTEM AND METHOD FOR SERVER BASED CONTROL
First Named Inventor/Applicant Name:	Yehuda BINDER
Filer:	Yehuda Binder/Dorit Binder
Attorney Docket Number:	BINDER-014-US7

Filed as Small Entity

Filing Fees for Utility under 35 USC 111(a)

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
CERTIFICATE OF CORRECTION	2811	1	160	160

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Extension-of-Time:				
Miscellaneous:				
			Total in USD ($)	**160**

Electronic Acknowledgement Receipt	
EFS ID:	45545671
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:	24-APR-2022
Filing Date:	30-MAY-2018
Time Stamp:	12:35:14
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	DA
Payment was successfully received in RAM	$160
RAM confirmation Number	E20224NC35403347
Deposit Account	
Authorized User	
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:	

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Request for Certificate of Correction	sb0044.pdf	153957 bf652e84ed48a752b7d979d9f5c11d0a78fb83b1	no	2
Warnings:					
Information:					
2	Request for Certificate of Correction	Request-for-Corrections.pdf	24507 fc13ecee79ea43356dc14efef33d5edfeb61614c	no	5
Warnings:					
Information:					
3	Fee Worksheet (SB06)	fee-info.pdf	37676 22cac9d09da7590af09a91534488d2310c102cc2	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	216140		

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.

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
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P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/992,221	11/30/2021	11190590	BINDER-014-US7	8906

131926 7590 11/10/2021

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

ISSUE NOTIFICATION

The projected patent number and issue date are specified above.

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)
(application filed on or after May 29, 2000)

The Patent Term Adjustment is 471 day(s). Any patent to issue from the above-identified application will include an indication of the adjustment on the front page.

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Application Assistance Unit (AAU) of the Office of Patents Stakeholder Experience (OPSE), Stakeholder Support Division (SSD) at (571)-272-4200.

INVENTOR(s) (Please see PAIR WEB site http://pair.uspto.gov for additional inventors):

Yehuda BINDER, Ramat Gan, ISRAEL;
Benjamin MAYTAL, Mevasseret Zion, ISRAEL;

APPLICANT(s) (Please see PAIR WEB site http://pair.uspto.gov for additional applicants):

May Patents Ltd., Hod Hasharon, ISRAEL;

The United States represents the largest, most dynamic marketplace in the world and is an unparalleled location for business investment, innovation, and commercialization of new technologies. The USA offers tremendous resources and advantages for those who invest and manufacture goods here. Through SelectUSA, our nation works to encourage and facilitate business investment. To learn more about why the USA is the best country in the world to develop technology, manufacture products, and grow your business, visit SelectUSA.gov.

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

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 11/01/2021

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
11/01/2021	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.

CORRECTED ***Notice of Allowability***	**Application No.** 15/992,221	**Applicant(s)** BINDER et al.	
	Examiner HASSAN A KHAN	**Art Unit** 2456	**AIA (FITF) Status** No

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

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☑ This communication is responsive to 08/12/2021.
   ☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

2. ☐ 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.

3. ☑ The allowed claim(s) is/are 1-31 and 33-64 . As a result of the allowed claim(s), 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.**

4. ☐ 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)).

   * Certified copies not received: _____ .

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
   ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____ .

   Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date _____.
3. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material _____.
4. ☐ Interview Summary (PTO-413), Paper No./Mail Date. _____.
5. ☐ Examiner's Amendment/Comment
6. ☐ Examiner's Statement of Reasons for Allowance
7. ☐ Other _____.

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

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

CPC						
Symbol					**Type**	**Version**
H04L	/	67	/	12	F	2013-01-01
Y04S	/	40	/	18	A	2018-05-01
B60K	/	31	/	00	A	2013-01-01
B60K	/	31	/	18	A	2013-01-01
B60Y	/	2200	/	11	A	2013-01-01
B60Y	/	2200	/	12	A	2013-01-01
B60Y	/	2200	/	126	A	2013-01-01
B60Y	/	2200	/	13	A	2013-01-01
B60Y	/	2200	/	30	A	2013-01-01
B60Y	/	2200	/	40	A	2013-01-01
B60Y	/	2200	/	50	A	2013-01-01
B60Y	/	2200	/	90	A	2013-01-01
G01C	/	21	/	00	A	2013-01-01
G06Q	/	2240	/	00	A	2013-01-01
G07C	/	5	/	008	A	2013-01-01
G08G	/	1	/	00	A	2013-01-01

CPC Combination Sets							
Symbol					**Type**	**Set**	**Ranking**	**Version**
	/		/					

/HASSAN A KHAN/ Examiner, Art Unit 2456 (Assistant Examiner)	27 October 2021 (Date)	**Total Claims Allowed:** 63	
/PHILIP J CHEA/ Supervisory Patent Examiner, Art Unit 2456 (Primary Examiner)	27 October 2021 (Date)	O.G. Print Claim(s) 1	O.G. Print Figure 5e

U.S. Patent and Trademark Office — Part of Paper No.: 20211027

Amazon EX1003 Page 18

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

INTERNATIONAL CLASSIFICATION				
CLAIMED				
H04L	/	29	/	08

NON-CLAIMED				
	/		/	

US ORIGINAL CLASSIFICATION	
CLASS	**SUBCLASS**
709	218

CROSS REFERENCES(S)						
CLASS	**SUBCLASS (ONE SUBCLASS PER BLOCK)**					

/HASSAN A KHAN/ Examiner, Art Unit 2456	27 October 2021	**Total Claims Allowed:**	
(Assistant Examiner)	(Date)	63	
/PHILIP J CHEA/ Supervisory Patent Examiner, Art Unit 2456	27 October 2021	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	5e

U.S. Patent and Trademark Office — Part of Paper No.: 20211027

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

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

CLAIMS

Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original
1	1	10	10	19	19	28	28	36	37	45	46	54	55	63	64
2	2	11	11	20	20	29	29	37	38	46	47	55	56		
3	3	12	12	21	21	30	30	38	39	47	48	56	57		
4	4	13	13	22	22	31	31	39	40	48	49	57	58		
5	5	14	14	23	23		32	40	41	49	50	58	59		
6	6	15	15	24	24	32	33	41	42	50	51	59	60		
7	7	16	16	25	25	33	34	42	43	51	52	60	61		
8	8	17	17	26	26	34	35	43	44	52	53	61	62		
9	9	18	18	27	27	35	36	44	45	53	54	62	63		

/HASSAN A KHAN/ Examiner, Art Unit 2456	27 October 2021	**Total Claims Allowed:**	
(Assistant Examiner)	(Date)	63	
/PHILIP J CHEA/ Supervisory Patent Examiner, Art Unit 2456	27 October 2021	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	5e

U.S. Patent and Trademark Office — Part of Paper No.: 20211027

Amazon EX1003 Page 20

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	09/21/2018	01/11/2019	04/09/2019	05/06/2019	10/12/2019	02/14/2020	10/09/2021	
1	1	÷	✓	✓	✓	✓	✓	✓	=	
2	2	÷	N	✓	✓	✓	✓	✓	=	
3	3	÷	N	✓	✓	✓	✓	✓	=	
4	4	÷	N	✓	✓	✓	✓	✓	=	
5	5	÷	N	✓	✓	✓	✓	✓	=	
6	6	÷	N	✓	✓	✓	✓	✓	=	
7	7	÷	✓	✓	✓	✓	✓	✓	=	
8	8	÷	N	✓	✓	✓	✓	✓	=	
9	9	÷	✓	✓	✓	✓	✓	✓	=	
10	10	÷	✓	✓	✓	✓	✓	✓	=	
11	11	÷	N	✓	✓	✓	✓	✓	=	
12	12	÷	N	N	N	N	✓	✓	=	
13	13	÷	N	N	N	N	✓	✓	=	
14	14	÷	N	N	N	N	✓	✓	=	
15	15	÷	N	N	N	N	✓	✓	=	
16	16	÷	N	N	N	N	✓	✓	=	
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19	19	÷	N	N	N	N	✓	✓	=	
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	32	÷	N	N	N	N	✓	✓	-	
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33	34	÷	N	N	N	N	✓	✓	=	
34	35	÷	N	N	N	N	✓	✓	=	
35	36	÷	N	N	N	N	✓	✓	=	
36	37	÷	N	N	N	N	✓	✓	=	
37	38	÷	N	N	N	N	✓	✓	=	
38	39	÷	N	N	N	N	✓	✓	=	
39	40	÷	N	N	N	N	✓	✓	=	
40	41	÷	N	N	N	N	✓	✓	=	
41	42	÷	N	N	N	N	✓	✓	=	

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	09/21/2018	01/11/2019	04/09/2019	05/06/2019	10/12/2019	02/14/2020	10/09/2021	
42	43	÷	N	N	N	N	✓	✓	=	
43	44	÷	N	N	N	N	✓	✓	=	
44	45	÷	N	N	N	N	✓	✓	=	
45	46	÷	N	N	N	N	✓	✓	=	
46	47	÷	N	N	N	N	✓	✓	=	
47	48	÷	N	N	N	N	✓	✓	=	
48	49	÷	N	N	N	N	✓	✓	=	
49	50	÷	N	N	N	N	✓	✓	=	
50	51	÷	N	N	N	N	✓	✓	=	
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52	53	÷	N	N	N	N	✓	✓	=	
53	54	÷	N	N	N	N	✓	✓	=	
54	55	÷	N	N	N	N	✓	✓	=	
55	56	÷	N	N	N	N	✓	✓	=	
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59	60	÷	N	N	N	N	✓	✓	=	
60	61	÷	N	N	N	N	✓	✓	=	
61	62	÷	N	N	N	N	✓	✓	=	
62	63	÷	N	N	N	N	✓	✓	=	
63	64	÷	N	N	N	N	✓	✓	=	

PART B – FEE(S) TRANSMITTAL

Complete and send this form, together with the applicable fee(s), by mail or fax, or via EFS-Web.

By mail, send to: Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

By fax, send to: (571) 273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate " FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

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

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being transmitted to the USPTO via EFS-Web or by facsimile to (571) 273-2885, on the date below.

(Typed or printed name)
(Signature)
(Date)

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

TITLE OF INVENTION:

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	$600	$0	$0	$600	01/19/2022

EXAMINER	ART UNIT	CLASS-SUBCLASS

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363)

☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.

☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-09 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list

(1) The names of up to 3 registered patent attorneys or agents OR, alternatively,

(2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1. May Patents Ltd. c/o Dorit Shem-Tov
2.
3.

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document must have been previously recorded, or filed for recordation, as set forth in 37 CFR 3.11 and 37 CFR 3.81(a). Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE: May Patents Ltd.

(B) RESIDENCE: (CITY and STATE or COUNTRY): HOD-HASHARON, ISRAEL 45103

Please check the appropriate assignee category or categories (will not be printed on the patent): ☐ Individual ☑ Corporation or other private group entity ☐ Government

4a. Fees Submitted: ☑ Issue Fee ☐ Publication Fee (if required) ☐ Advance Order - # of Copies _____

4b. Method of Payment (*Please first reapply any previously paid fee shown above*):

☐ Electronic Payment via EFS-Web ☐ Enclosed check ☐ Non-electronic payment by credit card (Attach form PTO-2038)

☑ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment to Deposit Account No. 506726

5. Change of Entity Status (from status indicated above)

☐ Applicant certifying micro entity status. See 37 CFR 1.29. NOTE: Absent a valid Certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.

☐ Applicant asserting small entity status. See 37 CFR 1.27. NOTE: If the application was previously under micro entity status, checking this box will be taken as a notification of loss of entitlement to micro entity status.

☐ Applicant changing to regular undiscounted fee status. NOTE: Checking this box will be taken as a notification of loss of entitlement to small or micro entity status, as applicable.

NOTE: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Authorized Signature /Yehuda Binder/ Date October 24, 2021

Typed or printed name Yehuda BINDER Registration No. 73,612

OMB Clearance and PRA Burden Statement for PTOL-85 Part B

The Paperwork Reduction Act (PRA) of 1995 requires Federal agencies to obtain Office of Management and Budget approval before requesting most types of information from the public. When OMB approves an agency request to collect information from the public, OMB (i) provides a valid OMB Control Number and expiration date for the agency to display on the instrument that will be used to collect the information and (ii) requires the agency to inform the public about the OMB Control Number's legal significance in accordance with 5 CFR 1320.5(b).

The information collected by PTOL-85 Part B is required by 37 CFR 1.311. 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 30 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, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450. Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Privacy Act Statement

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.

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 disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
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 inspection 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 Patent Application Fee Transmittal

Application Number:	15992221
Filing Date:	30-May-2018
Title of Invention:	SYSTEM AND METHOD FOR SERVER BASED CONTROL
First Named Inventor/Applicant Name:	Yehuda BINDER
Filer:	Yehuda Binder/Dorit Binder
Attorney Docket Number:	BINDER-014-US7

Filed as Small Entity

Filing Fees for Utility under 35 USC 111(a)

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
UTILITY APPL ISSUE FEE	2501	1	600	600

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Extension-of-Time:				
Miscellaneous:				
			Total in USD ($)	**600**

Electronic Acknowledgement Receipt	
EFS ID:	44107024
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:	24-OCT-2021
Filing Date:	30-MAY-2018
Time Stamp:	08:51:43
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	DA
Payment was successfully received in RAM	$600
RAM confirmation Number	E20210N952064830
Deposit Account	
Authorized User	
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:	

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Issue Fee Payment (PTO-85B)	ptol85b.pdf	272814 e776c2081b1243f8c95574d8c775a2f8bcf25589	no	2
Warnings:					
Information:					
2	Fee Worksheet (SB06)	fee-info.pdf	37751 491869bebc39885b4c5a6a14998272aaad48f406	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	310565		

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.

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

NOTICE OF ALLOWANCE AND FEE(S) DUE

131926 7590 10/19/2021

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	

DATE MAILED: 10/19/2021

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

TITLE OF INVENTION: SYSTEM AND METHOD FOR SERVER BASED CONTROL

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	$600	$0.00	$0.00	$600	01/19/2022

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the ENTITY STATUS shown above. If the ENTITY STATUS is shown as SMALL or MICRO, verify whether entitlement to that entity status still applies.

If the ENTITY STATUS is the same as shown above, pay the TOTAL FEE(S) DUE shown above.

If the ENTITY STATUS is changed from that shown above, on PART B - FEE(S) TRANSMITTAL, complete section number 5 titled "Change in Entity Status (from status indicated above)".

For purposes of this notice, small entity fees are 1/2 the amount of undiscounted fees, and micro entity fees are 1/2 the amount of small entity fees.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Maintenance fees are due in utility patents issuing on applications filed on or after Dec. 12, 1980. It is patentee's responsibility to ensure timely payment of maintenance fees when due. More information is available at www.uspto.gov/PatentMaintenanceFees.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), by mail or fax, or via EFS-Web.

By mail, send to: Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

By fax, send to: (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

131926 7590 10/19/2021
May Patents Ltd. c/o Dorit Shem-Tov
P.O.B 7230
Ramat-Gan, 5217102
ISRAEL

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being transmitted to the USPTO via EFS-Web or by facsimile to (571) 273-2885, on the date below.

(Typed or printed name)
(Signature)
(Date)

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

TITLE OF INVENTION: SYSTEM AND METHOD FOR SERVER BASED CONTROL

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	$600	$0.00	$0.00	$600	01/19/2022

EXAMINER	ART UNIT	CLASS-SUBCLASS
KHAN, HASSAN ABDUR-RAHMAN	2456	709-218000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

❑ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.

❑ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-09 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list
(1) The names of up to 3 registered patent attorneys or agents OR, alternatively,
(2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1_____
2_____
3_____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document must have been previously recorded, or filed for recordation, as set forth in 37 CFR 3.11 and 37 CFR 3.81(a). Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent) : ❑ Individual ❑ Corporation or other private group entity ❑ Government

4a. Fees submitted: ❑Issue Fee ❑Publication Fee (if required) ❑Advance Order - # of Copies _____

4b. Method of Payment: *(Please first reapply any previously paid fee shown above)*

❑ Electronic Payment via EFS-Web ❑ Enclosed check ❑ Non-electronic payment by credit card (Attach form PTO-2038)

❑ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment to Deposit Account No. _____

5. **Change in Entity Status** (from status indicated above)

❑ Applicant certifying micro entity status. See 37 CFR 1.29

❑ Applicant asserting small entity status. See 37 CFR 1.27

❑ Applicant changing to regular undiscounted fee status.

NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.
NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.
NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

NOTE: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Authorized Signature _____ Date _____

Typed or printed name _____ Registration No. _____

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

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 10/19/2021

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	

DATE MAILED: 10/19/2021

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)
(Applications filed on or after May 29, 2000)

The Office has discontinued providing a Patent Term Adjustment (PTA) calculation with the Notice of Allowance.

Section 1(h)(2) of the AIA Technical Corrections Act amended 35 U.S.C. 154(b)(3)(B)(i) to eliminate the requirement that the Office provide a patent term adjustment determination with the notice of allowance. See Revisions to Patent Term Adjustment, 78 Fed. Reg. 19416, 19417 (Apr. 1, 2013). Therefore, the Office is no longer providing an initial patent term adjustment determination with the notice of allowance. The Office will continue to provide a patent term adjustment determination with the Issue Notification Letter that is mailed to applicant approximately three weeks prior to the issue date of the patent, and will include the patent term adjustment on the patent. Any request for reconsideration of the patent term adjustment determination (or reinstatement of patent term adjustment) should follow the process outlined in 37 CFR 1.705.

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

OMB Clearance and PRA Burden Statement for PTOL-85 Part B

The Paperwork Reduction Act (PRA) of 1995 requires Federal agencies to obtain Office of Management and Budget approval before requesting most types of information from the public. When OMB approves an agency request to collect information from the public, OMB (i) provides a valid OMB Control Number and expiration date for the agency to display on the instrument that will be used to collect the information and (ii) requires the agency to inform the public about the OMB Control Number's legal significance in accordance with 5 CFR 1320.5(b).

The information collected by PTOL-85 Part B is required by 37 CFR 1.311. 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 30 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, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450. Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Privacy Act Statement

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.

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 disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
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 inspection 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.

Notice of Allowability	Application No. 15/992,221	Applicant(s) BINDER et al.	
	Examiner HASSAN A KHAN	Art Unit 2456	AIA (FITF) Status No

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

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☑ This communication is responsive to 08/12/2021.
   ☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

2. ☐ 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.

3. ☑ The allowed claim(s) is/are 1-64 . As a result of the allowed claim(s), 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.**

4. ☐ 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)).

   * Certified copies not received: _____ .

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
   ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____ .

   Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☑ Notice of References Cited (PTO-892)
2. ☑ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 6/23/21, 10/5/20, 6/26/20, 3/13/20.
3. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material _____.
4. ☐ Interview Summary (PTO-413), Paper No./Mail Date. _____.
5. ☐ Examiner's Amendment/Comment
6. ☑ Examiner's Statement of Reasons for Allowance
7. ☐ Other _____.

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

DETAILED ACTION

REASONS FOR ALLOWANCE

The following is an examiner's statement of reasons for allowance: As per the Patent Trial and Appeal Board decision rendered on 07/22/2021 for Appeal 2020-002710 and MPEP ¶8.45, Claims 1- 64 are allowable. Claims previously withdrawn from consideration as a result of a restriction requirement, requires all the limitations of an allowable claim. Pursuant to the procedures set forth in MPEP § 821.04(a), the restriction requirements among inventions, as set forth in the Office action mailed on 02/28/2018, are hereby withdrawn and all Claims 1 – 64 are hereby rejoined and fully examined for patentability under 37 CFR 1.104. In view of the withdrawal of the restriction requirement, applicant(s) are 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 non-statutory double patenting rejections over the claims of the instant application.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

CONCLUSION

Any inquiry concerning this communication or earlier communications from the examiner should be directed to HASSAN KHAN whose telephone number is (313) 446-6574. The examiner can normally be reached on MONDAY - THURSDAY: 8AM-6PM EST. 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 - 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 2

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
*	A	US-20110251807-A1	10-2011	Rada; Patrick A.	G01D4/00	702/61
*	B	US-20090183729-A1	07-2009	Barkhouse; Sydney	F23N1/002	126/39BA
*	C	US-20080130520-A1	06-2008	Ebrom; Matthew P.	H04L69/26	370/254
*	D	US-20090046715-A1	02-2009	MCCOY; RICHARD A.	H05B6/688	370/389
*	E	US-20010025349-A1	09-2001	Sharood, John N.	G06Q30/0241	713/340
*	F	US-6546297-B1	04-2003	Gaston; Michael T.	G05B19/0426	700/17
*	G	US-20110170377-A1	07-2011	Legaspi; Ferdinand Villegas	G08B17/00	367/199
*	H	US-20080031139-A1	02-2008	Muro; Keiro	H04L67/101	370/237
*	I	US-20050125083-A1	06-2005	Kiko, Frederick J.	H04L12/282	700/19
*	J	US-20070283005-A1	12-2007	Beliles; Robert P.	H04L41/0816	709/224
*	K	US-20110148651-A1	06-2011	Hendrickson; Michael S.	D06F39/02	340/686.6
*	L	US-20110298301-A1	12-2011	Wong; Simon	G01D4/004	307/116
*	M	US-20100298957-A1	11-2010	Sanchez Rocha; Jaime	H04L12/12	700/90

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.

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 2 of 2

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
*	A	US-20100071053-A1	03-2010	Ansari; Amir	G10L15/22	726/12
*	B	US-20100211359-A1	08-2010	Mehta; Neelesh B.	H04L67/12	702/188
*	C	US-20180278694-A1	09-2018	BINDER; Yehuda	H04L67/12	1/1
	D					
	E					
	F					
	G					
	H					
	I					
	J					
	K					
	L					
	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.

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	09/21/2018	01/11/2019	04/09/2019	05/06/2019	10/12/2019	02/14/2020	10/09/2021	
1	1	÷	✓	✓	✓	✓	✓	✓	=	
2	2	÷	N	✓	✓	✓	✓	✓	=	
3	3	÷	N	✓	✓	✓	✓	✓	=	
4	4	÷	N	✓	✓	✓	✓	✓	=	
5	5	÷	N	✓	✓	✓	✓	✓	=	
6	6	÷	N	✓	✓	✓	✓	✓	=	
7	7	÷	✓	✓	✓	✓	✓	✓	=	
8	8	÷	N	✓	✓	✓	✓	✓	=	
9	9	÷	✓	✓	✓	✓	✓	✓	=	
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41	41	÷	N	N	N	N	✓	✓	=	
42	42	÷	N	N	N	N	✓	✓	=	

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	09/21/2018	01/11/2019	04/09/2019	05/06/2019	10/12/2019	02/14/2020	10/09/2021	
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44	44	÷	N	N	N	N	✓	✓	=	
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62	62	÷	N	N	N	N	✓	✓	=	
63	63	÷	N	N	N	N	✓	✓	=	
64	64	÷	N	N	N	N	✓	✓	=	

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

CPC						
Symbol					**Type**	**Version**
H04L	/	67	/	12	F	2013-01-01
Y04S	/	40	/	18	A	2018-05-01
B60K	/	31	/	00	A	2013-01-01
B60K	/	31	/	18	A	2013-01-01
B60Y	/	2200	/	11	A	2013-01-01
B60Y	/	2200	/	12	A	2013-01-01
B60Y	/	2200	/	126	A	2013-01-01
B60Y	/	2200	/	13	A	2013-01-01
B60Y	/	2200	/	30	A	2013-01-01
B60Y	/	2200	/	40	A	2013-01-01
B60Y	/	2200	/	50	A	2013-01-01
B60Y	/	2200	/	90	A	2013-01-01
G01C	/	21	/	00	A	2013-01-01
G06Q	/	2240	/	00	A	2013-01-01
G07C	/	5	/	008	A	2013-01-01
G08G	/	1	/	00	A	2013-01-01

CPC Combination Sets							
Symbol					**Type**	**Set**	**Ranking**	**Version**
	/		/					

/HASSAN A KHAN/ Examiner, Art Unit 2456	09 October 2021	**Total Claims Allowed:**	
(Assistant Examiner)	(Date)	64	
/PHILIP J CHEA/ Supervisory Patent Examiner, Art Unit 2456	12 October 2021	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	5e

U.S. Patent and Trademark Office — Part of Paper No.: 20211009

Amazon EX1003 Page 40

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

INTERNATIONAL CLASSIFICATION				
CLAIMED				
H04L	/	29	/	08

NON-CLAIMED				
	/		/	

US ORIGINAL CLASSIFICATION	
CLASS	**SUBCLASS**
709	218

CROSS REFERENCES(S)						
CLASS	**SUBCLASS (ONE SUBCLASS PER BLOCK)**					

/HASSAN A KHAN/ Examiner, Art Unit 2456	09 October 2021	**Total Claims Allowed:**	
(Assistant Examiner)	(Date)	64	
/PHILIP J CHEA/ Supervisory Patent Examiner, Art Unit 2456	12 October 2021	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	5e

U.S. Patent and Trademark Office — Part of Paper No.: 20211009

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	Examiner	**Art Unit**
	HASSAN A KHAN	2456

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

CLAIMS

Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original
1	1	10	10	19	19	28	28	37	37	46	46	55	55	64	64
2	2	11	11	20	20	29	29	38	38	47	47	56	56		
3	3	12	12	21	21	30	30	39	39	48	48	57	57		
4	4	13	13	22	22	31	31	40	40	49	49	58	58		
5	5	14	14	23	23	32	32	41	41	50	50	59	59		
6	6	15	15	24	24	33	33	42	42	51	51	60	60		
7	7	16	16	25	25	34	34	43	43	52	52	61	61		
8	8	17	17	26	26	35	35	44	44	53	53	62	62		
9	9	18	18	27	27	36	36	45	45	54	54	63	63		

/HASSAN A KHAN/ Examiner, Art Unit 2456	09 October 2021	**Total Claims Allowed:**	
(Assistant Examiner)	(Date)	64	
/PHILIP J CHEA/ Supervisory Patent Examiner, Art Unit 2456	12 October 2021	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	5e

U.S. Patent and Trademark Office — Part of Paper No.: 20211009

Amazon EX1003 Page 42

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.	09/21/2018	H.K.

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

US Classification - Searched*			
Class	**Subclass**	**Date**	**Examiner**

* 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	

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

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.
Updated EAST search history further limited by text search (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.
Updated EAST search history further limited by text search (see attached)	04/09/2019	H.K.
Inventor search conducted (see EAST search history)	05/06/2019	H.K.
Assignee search conducted (see EAST search history)	05/06/2019	H.K.
Updated EAST search history further limited by text search (see attached)	05/06/2019	H.K.
Inventor search conducted (see EAST search history)	10/12/2019	H.K.
Assignee search conducted (see EAST search history)	10/12/2019	H.K.
Appeal Brief Conference	10/02/2019	H.K.
Updated EAST search history further limited by text search (see attached)	10/12/2019	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.
	Examiner	Art Unit
	HASSAN A KHAN	2456

Interference Search			
US Class/CPC Symbol	**US Subclass/CPC Group**	**Date**	**Examiner**
H04L	67/12	10/09/2021	H.K.
B60K	31/00, 31/18	10/09/2021	H.K.
B60Y	2200/11, 2200/12, 2200/126, 2200/13, 2200/30, 2200/40, 2200/50, 2200/90	10/09/2021	H.K.
G01C	21/00	10/09/2021	H.K.
G06Q	2240/00	10/09/2021	H.K.
G07C	5/008	10/09/2021	H.K.
G08G	1/00	10/09/2021	H.K.

/HASSAN A KHAN/ Examiner, Art Unit 2456	

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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06/19/2018

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ISRAEL

ADDRESS

May Patents Ltd. c/o Dorit Shem-Tov

P.O.B 7230

Ramat-Gan, 5217102

ISRAEL

FILING FEE RECEIVED

$3,585

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

PTO/SB/08a (02-18)
Approved for use through 11/30/2020. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT
(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

U.S.PATENTS Remove

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	8615374	B1	2013-12-24	Frederick M. Discenzo	
	2	4472656	A	1984-09-18	CORNELIS FRANX	
	3	8244405	B2	2012-08-14	Imin Kao	
	4	5696879	A	1997-12-09	TROY L. CLINE	
	5	5077512	A	1991-12-31	HAROLD J. WEBER	

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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	20100281884	A1	2010-11-11	John Myron Rawski	

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	Attorney Docket Number	BINDER-014-US7

	2	20120190292	A1	2012-07-26	Alan James Skrepcinski	
	3	20080291036	A1	2008-11-27	Robert Charles Richmond	
	4	20150222852	A1	2015-08-06	Ronald Carter	
	5	20100187832	A1	2010-07-29	Scott T. Holland	
	6	20090189981	A1	2009-07-30	Jon Siann	
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	8	20100039253	A1	2010-02-18	SHIHUA ZANG	
	9	20110047874	A1	2011-03-03	Scott B. Lowder	
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	11	20180242859	A1	2018-08-30	Steven Francis LeBoeuf	
	12	20110282168	A1	2011-11-17	Alan Robert Weiss	

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	Attorney Docket Number	BINDER-014-US7

	13	20130211858	A1	2013-08-15	Peter Ohnemus	
	14	20100195601	A1	2010-08-05	Yan Zhang	
	15	20120265026	A1	2012-10-08	Mohammad Shenasa	
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	18	20110050216	A1	2011-03-03	Robert Thomas STONE	
	19	20090105605	A1	2009-04-23	Marcio Marc Abreu	
	20	20120179067	A1	2012-07-12	William Oren Wekell	
	21	20120130203	A1	2012-05-24	Stergios STERGIOU	
	22	20110034912	A1	2011-02-10	Bassel de Graff	
	23	20070208390	A1	2007-09-06	Jeffrey A. Von Arx	

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	Attorney Docket Number	BINDER-014-US7

	24	20090005720	A1	2009-01-01	Lev Ludin	
	25	20100100004	A1	2010-04-22	Eugenio Johannes Wilhelmus van Someren	

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	1							

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Examiner Signature	/HASSAN A KHAN/	Date Considered	10/09/2021

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

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See attached certification statement.

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☒ A certification statement is not submitted herewith.

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Signature	/Yehuda Binder/	Date (YYYY-MM-DD)	2020-03-08
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	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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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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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	20130121239	A1	2013-05-16	John Alson Hicks	
	2	20130048319	A1	2013-02-28	William E. Glaub	
	3	20120236748	A1	2012-09-20	Edwin B. Brownrigg	
	4	20120229283	A1	2012-09-13	Cameron MCKENNA	
	5	20110082599	A1	2011-04-07	Makarand Shinde	

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

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

	6	20090051551	A1	2009-02-26	Hai D. Pham	
	7	20090042533	A1	2009-02-12	Karen D. Lontka	
	8	20080221715	A1	2008-09-11	Paul Krzyzanowski	
	9	20070262847	A1	2007-11-15	Cory L. Grabinger	
	10	20070169080	A1	2007-07-19	Larry Alan Friedman	
	11	20060265195	A1	2006-11-23	Jon A. Woodard	
	12	20050226201	A1	2005-10-13	Brian K. McMillin	
	13	20050154494	A1	2005-07-14	Osman Ahmed	
	14	20040217857	A1	2004-11-04	Gary Lennartz	
	15	20010024163	A1	2001-09-27	Thomas D. Petite	

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	Attorney Docket Number	BINDER-014-US7

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 Signature	/HASSAN A KHAN/	Date Considered	10/09/2021

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See attached certification statement.

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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)	2020-05-26
Name/Print	Yehuda Binder	Registration Number	73612

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

PTO/SB/08a (02-18)
Approved for use through 11/30/2020. OMB 0651-0031
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT
(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

U.S.PATENTS Remove

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	7019646	B1	2006-03-28	Noel Woodard	

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U.S.PATENT APPLICATION PUBLICATIONS Remove

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	20120112970	A1	2012-05-10	Ruben Caballero	
	2	20120303150	A1	2012-11-29	Meenakshi Sundaram Krishnaswamy	

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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 Name	KHAN, HASSAN ABDUR-RAHMAN
	Attorney Docket Number	BINDER-014-US7

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	TP-LINK User Guide TL-POE10R, PoE Splitter, Rev. 3.0.0 Document Number – 7106503409, (Published 2010) (10 pages)	

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EXAMINER SIGNATURE

Examiner Signature	/HASSAN A KHAN/	Date Considered	10/09/2021

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[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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	First Named Inventor	Yehuda Binder
	Art Unit	2456
	Examiner Name	KHAN, HASSAN ABDUR-RAHMAN
	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)	2020-09-29
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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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

U.S.PATENTS Remove

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	5555498	A	1996-09-10	CHARLES J. BERRA	
	2	6957133	B1	2005-10-18	Robert Hunt	
	3	7904219	B1	2011-03-08	Larkin H. Lowrey	
	4	7103460	B1	2006-09-05	David S. Breed	

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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	20140215491	A1	2014-07-31	Sateesh K. Addepalli	
	2	20100071053	A1	2010-03-18	Amir Ansari	

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	Attorney Docket Number	BINDER-014-US7

	3	20070021847	A1	2007-01-25	Akihiko Hyodo	
	4	20110153149	A1	2011-06-23	Hong Seok Jeon	
	5	20090138136	A1	2009-05-28	Akihiro Natsume	
	6	20060111825	A1	2006-05-25	Minoru Okada	
	7	20080100428	A1	2008-05-01	Sherry D. Price	
	8	20070198144	A1	2007-08-23	William Robert Norris	
	9	20030009271	A1	2003-01-09	Susumu Akiyama	
	10	20100211258	A1	2010-08-19	Kohei SAKURAI	
	11	20100030421	A1	2010-02-04	Kentaro YOSHIMURA	
	12	20150046582	A1	2015-02-12	David C. Gelvin	
	13	20070069947	A1	2007-03-29	Matthew Banet	

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	14	20100023198	A1	2010-01-28	Brennan Todd Hamilton	
	15	20030093199	A1	2003-05-15	Michael Mavreas	
	16	20030130774	A1	2003-07-10	Pradeep R. Tripathi	
	17	20080122288	A1	2008-05-29	James Plante	
	18	20050146458	A1	2005-07-07	Steve Douglas Carmichael	
	19	20060025897	A1	2006-02-02	Oleksandr T. Shostak	
	20	20100305807	A1	2010-12-02	Otman A. Basir	
	21	20070038461	A1	2007-02-15	Lisa Abbott	
	22	20080215336	A1	2008-09-04	Christopher L. Oesterling	
	23	20120212341	A1	2012-08-23	Bernd Siber	

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	1	2011051022	WO	A1	2011-05-05	SIBER BERND		

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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	10/09/2021

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X See attached certification statement.

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Signature	/Yehuda Binder/	Date (YYYY-MM-DD)	2021-06-23
Name/Print	Yehuda Binder	Registration Number	73612

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EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	5,774	709/218.ccls.	US-PGPUB; USPAT	OR	ON	2021/10/09 11:23
L2	31,400	H04L67/12.cpc.	US-PGPUB; USPAT	OR	ON	2021/10/09 11:23
L3	172,605	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	2021/10/09 11:23
L4	58	(maytal and benjamin).in.	US-PGPUB; USPAT	OR	ON	2021/10/09 11:23
L5	502	(binder and yehuda).in.	US-PGPUB; USPAT	OR	ON	2021/10/09 11:23
L6	141	(may and patents).aanm.	US-PGPUB; USPAT	OR	ON	2021/10/09 11:23
L7	81	(may and patents).as.	US-PGPUB; USPAT	OR	ON	2021/10/09 11:23
L8	543	L4 L5 L6 L7	US-PGPUB; USPAT	OR	ON	2021/10/09 11:23
L9	206,062	L1 or L2 or L3 or L8	US-PGPUB; USPAT	OR	ON	2021/10/09 11:23
L10	7	L9 and (relay with solenoid with reed).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2021/10/09 11:23
S1	1	"13733634"	US-PGPUB; USPAT	ADJ	ON	2016/12/03 01:33
S2	7,358	(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	1,020	(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	7,358	(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-	US-PGPUB; USPAT	ADJ	ON	2017/02/14 03:23

		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-$).did.				
S41	21	S40 and (vehicle or vehical or automobile or car)	US-PGPUB; USPAT	ADJ	ON	2017/02/14 03:29
S42	21	S40 and (vehicle or vehical or automobile or car) and actuator	US-PGPUB; USPAT	ADJ	ON	2017/02/14 03:29
S43	15	S40 and (vehicle or vehical or automobile or car) and actuator and sensor and network and cellular and wireless	US-PGPUB; USPAT	ADJ	ON	2017/02/14 03:30
S44	15	S40 and (coupled)	US-PGPUB; USPAT	ADJ	ON	2017/02/14 03:35
S45	1	S40 and (router)	US-PGPUB; USPAT	ADJ	ON	2017/02/14 03:36
S46	832	(vehicle or car) with router with (control or server) with network	US-PGPUB; USPAT	ADJ	ON	2017/02/14 03:37
S47	11	(vehicle or car) with router with (control or server) with network with actuator	US-PGPUB; USPAT	ADJ	ON	2017/02/14 03:37
S48	2	"20090198380"	US-PGPUB; USPAT	ADJ	ON	2017/02/14 03:42
S49	1	"20060217840"	US-PGPUB; USPAT	ADJ	ON	2017/02/14 03:42
S50	7	(US-20160062330-$ 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-	US-PGPUB; USPAT	ADJ	ON	2017/02/17 04:39

		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-	US-PGPUB; USPAT	ADJ	ON	2017/02/20 06:30

		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.				
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	15,493	(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	1,606	(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	US-PGPUB	ADJ	ON	2017/02/21 03:19

		or "x-rays" or (x adj2 rays) or gamma))				
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 or emit)) NEAR9	US-PGPUB	ADJ	ON	2017/02/21 05:29

		(invisible or visible or infrared, ultraviolet, xrays or "x-rays" or (x adj2 rays) or gamma))				
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	1,605	((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 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	7,130	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	1,455	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-$ 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-$).did.	US-PGPUB	OR	OFF	2017/07/20 19:05
S242	13	S236 and device	US-PGPUB	OR	OFF	2017/07/20 19:06
S243	0	S236 and (routing with phone)	US-PGPUB	OR	OFF	2017/07/20 19:08
S244	2	S236 and (router with phone)	US-PGPUB	OR	OFF	2017/07/20 19:08
S245	1	(US-20130201316-$).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	1,063	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	4,181	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	5,119	(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	10,730	(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-	US-PGPUB; USPAT	OR	ON	2017/09/18 12:24

		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	7,612	(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-	US-PGPUB	OR	ON	2017/09/27 04:43

		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-$).did.				
S290	7	S289 and (mic or microphone)	US-PGPUB; USPAT	OR	ON	2017/09/27 04:43
S291	13	(US-20160062330-$ 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-	US-PGPUB; USPAT	OR	ON	2017/09/28 08:46

		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-$).did.				
S294	3,281,126	S293 and ("same" NEAR4 device) or inside	US-PGPUB; USPAT	OR	ON	2017/09/28 08:46
S295	3,281,126	S293 and ("same" NEAR4 device) or inside	US-PGPUB; USPAT	OR	ON	2017/09/28 08:46
S296	28	S293 and (("same" NEAR4 device) or inside)	US-PGPUB; USPAT	OR	ON	2017/09/28 08:47
S297	13	(US-20160062330-$ 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-	US-PGPUB; USPAT	OR	ON	2017/09/29 06:26

		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.				
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	1,015	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-	US-PGPUB	OR	ON	2017/09/29 08:34

		20100071053-$ or US-20030105389-$ or US-20130091279-$ or US-20090224906-$ or US-20080307075-$ or US-20090089065-$ or US-20170272316-$).did.				
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	5,777	709/218.ccls.	US-PGPUB; USPAT	OR	ON	2017/09/29 09:03
S333	12,682	H04L67/12.cpc.	US-PGPUB; USPAT	OR	ON	2017/09/29 09:03
S334	25,214	B60K 31/00.cpc.	US-PGPUB; USPAT	OR	ON	2017/09/29 09:04
S335	25,214	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	36,907	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	9,132	G07C 5/008.cpc.	US-PGPUB; USPAT	OR	ON	2017/09/29 09:05
S348	15,985	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	13,516	H04L67/12.cpc.	US-PGPUB; USPAT	OR	ON	2018/01/19 19:43
S354	5,776	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-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	1,030	(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	1,865	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	13,516	H04L67/12.cpc.	US-PGPUB; USPAT	OR	ON	2018/01/19 19:45
S377	27,138	B60K 31/00.cpc.	US-PGPUB; USPAT	OR	ON	2018/01/19 19:45
S378	27,138	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	38,949	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	10,308	G07C 5/008.cpc.	US-PGPUB; USPAT	OR	ON	2018/01/19 19:45
S390	44,418	G08G 1/00	US-PGPUB; USPAT	OR	ON	2018/01/19 19:45
S391	17,401	G08G 1/00.cpc.	US-PGPUB; USPAT	OR	ON	2018/01/19 19:45
S392	127,924	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-	US-PGPUB	OR	OFF	2018/06/18 06:55

		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-$).did.				
S400	0	S399 and (voice or audio)	USPAT	OR	OFF	2018/06/18 06:55
S401	0	S399 and (voice or audio)	USPAT	OR	ON	2018/06/18 06:55
S402	0	S399 and (voice or audio)	USPAT	OR	OFF	2018/06/18 06:55
S403	0	S399 and audio	USPAT	OR	OFF	2018/06/18 06:56
S404	0	S399 and (voice or audio)	USPAT	OR	OFF	2018/06/18 06:56
S405	9	S399 and (voice or audio)	US-PGPUB; USPAT	OR	OFF	2018/06/18 06:56
S406	5	S399 and ((voice or audio or speech) with (command or control))	US-PGPUB; USPAT	OR	OFF	2018/06/18 06:58
S407	6	S399 and (mic or microphone)	US-PGPUB; USPAT	OR	OFF	2018/06/18 07:02
S408	42	(US-20130201316-$ 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-	US-PGPUB; USPAT	OR	OFF	2018/06/18 07:16

		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" |	US-PGPUB; USPAT	OR	OFF	2018/06/18 10:01

		"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.				
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-	US-PGPUB; USPAT	OR	OFF	2018/06/18 10:05

		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-	US-PGPUB; USPAT	OR	OFF	2018/06/18 11:27

		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.				
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	9,404	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	1,455	709/218.ccls.	US-PGPUB	ADJ	ON	2018/06/18 12:54
S472	12,341	S467 or S468 or S469 or S470 or S471	US-PGPUB	ADJ	ON	2018/06/18 12:54
S473	5,776	709/218.ccls.	US-PGPUB; USPAT	OR	ON	2018/06/18 12:59
S474	14,669	H04L67/12.cpc.	US-PGPUB; USPAT	OR	ON	2018/06/18 12:59
S475	29,542	B60K 31/00.cpc.	US-PGPUB; USPAT	OR	ON	2018/06/18 12:59
S476	29,542	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	41,547	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	11,825	G07C 5/008.cpc.	US-PGPUB; USPAT	OR	ON	2018/06/18 12:59
S488	49,737	G08G 1/00	US-PGPUB; USPAT	OR	ON	2018/06/18 12:59
S489	19,313	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	14,669	H04L67/12.cpc.	US-PGPUB; USPAT	OR	ON	2018/06/18 12:59
S495	19,392	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	159,408	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	5,775	709/218.ccls.	US-PGPUB; USPAT	OR	ON	2018/08/30 15:54
S505	16,337	H04L67/12.cpc.	US-PGPUB; USPAT	OR	ON	2018/08/30 15:54
S506	30,893	B60K 31/00.cpc.	US-PGPUB; USPAT	OR	ON	2018/08/30 15:54
S507	30,893	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	43,002	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	12,674	G07C 5/008.cpc.	US-PGPUB; USPAT	OR	ON	2018/08/30 15:54
S519	52,730	G08G 1/00	US-PGPUB; USPAT	OR	ON	2018/08/30 15:54
S520	20,427	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	16,337	H04L67/12.cpc.	US-PGPUB; USPAT	OR	ON	2018/08/30 15:54
S526	19,576	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	167,168	S504 S505 S506 S507 S508 S509 S510 S511 S512 S513 S514 S515 S516 S517 S518 S519 S520 S521	US-PGPUB; USPAT	OR	ON	2018/08/30 15:54

		S522 S523 S524 S525 S526 S527 S528 S529 S530				
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-	US-PGPUB; USPAT	OR	OFF	2018/09/16 02:13

		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" | "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-	US-PGPUB; USPAT	OR	OFF	2018/09/16 17:50

		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.				
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	13,929	sensor same actuator same light	US-PGPUB; USPAT	OR	OFF	2018/09/16 17:54
S552	40,441	home with security	US-PGPUB; USPAT	OR	OFF	2018/09/16 17:54
S553	38,871	S552 and (control or central or server)	US-PGPUB; USPAT	OR	OFF	2018/09/16 17:55
S554	3,449	S553 and (actuator)	US-PGPUB; USPAT	OR	OFF	2018/09/16 17:55
S555	1,784	S554 and light and LED	US-PGPUB; USPAT	OR	OFF	2018/09/16 17:55
S556	9,664	S553 and light and LED	US-PGPUB; USPAT	OR	OFF	2018/09/16 17:55
S557	6,008	S556 and alarm	US-PGPUB; USPAT	OR	OFF	2018/09/16 17:55
S558	5,158	S557 and internet	US-PGPUB; USPAT	OR	OFF	2018/09/16 17:56
S559	5,700	S557 and wireless	US-PGPUB; USPAT	OR	OFF	2018/09/16 17:56
S560	5,082	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	5,130	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-	US-PGPUB; USPAT	OR	OFF	2018/09/16 21:52

		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-$).did.				
S579	8	S578 and ((speech or voice) with control)	US-PGPUB; USPAT	OR	OFF	2018/09/16 21:53
S580	1	S574 and (lamp)	US-PGPUB	OR	OFF	2018/09/16 21:54
S581	2	S574 and (LED or light or bulb)	US-PGPUB	OR	OFF	2018/09/16 21:55
S582	1	"20080215391"	US-PGPUB	OR	OFF	2018/09/16 22:08
S583	2	(US-20070283005-$ 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	5,775	709/218.ccls.	US-PGPUB; USPAT	OR	OFF	2018/09/17 00:59
S586	16,494	H04L67/12.cpc.	US-PGPUB; USPAT	OR	OFF	2018/09/17 00:59
S587	31,132	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	3,668	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	7,177	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	32,994	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-	US-PGPUB; USPAT	OR	OFF	2018/09/20 16:52

		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-$).did.	US-PGPUB; USPAT	OR	OFF	2018/09/20 16:53
S614	0	"15992221"	US-PGPUB; USPAT	OR	OFF	2018/09/20 16:57
S615	58	(US-20130201316-$ 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-	US-PGPUB; USPAT	OR	OFF	2018/09/20 21:30

		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-$).did.				
S616	13	S615 and appliance	US-PGPUB; USPAT	OR	OFF	2018/09/20 21:30
S617	6	S616 and (alternating or AC)	US-PGPUB; USPAT	OR	OFF	2018/09/20 21:30
S618	11	(US-20160062330-$ 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	25,724	smart with appliance	US-PGPUB; USPAT	OR	OFF	2018/09/20 21:34
S624	40,382	smart with appliance	US-PGPUB; USPAT	OR	ON	2018/09/20 21:34
S625	1,316	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-	US-PGPUB; USPAT	OR	OFF	2018/09/20 23:15

		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.				
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-	US-PGPUB	OR	OFF	2018/09/21 00:29

		20110251807-$ or US-20120228952-$ or US-20140170275-$).did.				
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	9,637	relay with (latch$4)	US-PGPUB; USPAT	OR	OFF	2018/09/21 00:34
S657	55,096	(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	63,444	((appliance) and (food or cook$4 or kitchen))	US-PGPUB; USPAT	OR	OFF	2018/09/21 01:00
S669	3,220	S668 and solenoid	US-PGPUB; USPAT	OR	OFF	2018/09/21 01:00
S670	1,181	S669 and wireless	US-PGPUB; USPAT	OR	OFF	2018/09/21 01:00
S671	95,717	((appliance) and (food or cook$4 or kitchen))	US-PGPUB; USPAT	OR	ON	2018/09/21 01:00
S672	4,701	S671 and solenoid	US-PGPUB; USPAT	OR	ON	2018/09/21 01:01

S673	1,692	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	5,833	(whirlpool and corporation).as.	US-PGPUB; USPAT	OR	OFF	2018/09/21 03:27
S689	2,331	(whirlpool and corporation).aanm.	US-PGPUB; USPAT	OR	OFF	2018/09/21 03:27
S690	6,250	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	5,775	709/218.ccls.	US-PGPUB; USPAT	OR	ON	2018/09/21 05:25
S702	16,552	H04L67/12.cpc.	US-PGPUB; USPAT	OR	ON	2018/09/21 05:25
S703	102,574	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	123,485	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	5,774	709/218.ccls.	US-PGPUB; USPAT	OR	ON	2019/01/11 16:17
S718	17,742	H04L67/12.cpc.	US-PGPUB; USPAT	OR	ON	2019/01/11 16:17
S719	108,919	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	130,841	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
S727	5,775	709/218.ccls.	US-PGPUB; USPAT	OR	ON	2019/04/09 16:21
S728	18,833	H04L67/12.cpc.	US-PGPUB; USPAT	OR	ON	2019/04/09 16:21
S729	113,966	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
S730	51	(maytal and benjamin).in.	US-PGPUB; USPAT	OR	ON	2019/04/09 16:21
S731	415	(binder and yehuda).in.	US-PGPUB; USPAT	OR	ON	2019/04/09 16:21
S732	66	(may and patents).aanm.	US-PGPUB; USPAT	OR	ON	2019/04/09 16:21
S733	49	(may and patents).as.	US-PGPUB; USPAT	OR	ON	2019/04/09 16:21
S734	456	S730 S731 S732 S733	US-PGPUB; USPAT	OR	ON	2019/04/09 16:21
S735	136,815	S727 or S728 or S729 or S734	US-PGPUB; USPAT	OR	ON	2019/04/09 16:21
S736	5	S735 and (relay with solenoid with reed).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/04/09 16:21
S737	5,775	709/218.ccls.	US-PGPUB; USPAT	OR	ON	2019/05/06 16:21
S738	19,169	H04L67/12.cpc.	US-PGPUB; USPAT	OR	ON	2019/05/06 16:21
S739	115,490	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.	US-PGPUB; USPAT	OR	ON	2019/05/06 16:21

		B60Y2200/50.cpc. B60Y2200/90.cpc. G01C 21/00.cpc. G06Q2240/00.cpc. G07C 5/008.cpc. G08G 1/00.cpc.				
S740	52	(maytal and benjamin).in.	US-PGPUB; USPAT	OR	ON	2019/05/06 16:21
S741	416	(binder and yehuda).in.	US-PGPUB; USPAT	OR	ON	2019/05/06 16:21
S742	67	(may and patents).aanm.	US-PGPUB; USPAT	OR	ON	2019/05/06 16:21
S743	49	(may and patents).as.	US-PGPUB; USPAT	OR	ON	2019/05/06 16:21
S744	457	S740 S741 S742 S743	US-PGPUB; USPAT	OR	ON	2019/05/06 16:21
S745	138,635	S737 or S738 or S739 or S744	US-PGPUB; USPAT	OR	ON	2019/05/06 16:21
S746	5	S745 and (relay with solenoid with reed).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/05/06 16:21
S747	1	"15992221"	US-PGPUB; USPAT	OR	ON	2019/10/02 13:55
S748	2	"20090046715"	US-PGPUB; USPAT	OR	ON	2019/10/02 23:44
S749	2	(US-20160218884-$ or US-20090046715-$).did.	US-PGPUB	OR	ON	2019/10/02 23:44
S751	1	"15992221"	US-PGPUB; USPAT	ADJ	ON	2019/10/06 21:20
S752	2	"20150138333"	US-PGPUB; USPAT	ADJ	ON	2019/10/07 09:51
S753	0	"20090055019" "7750223".pn. "7062073".pn. "20010049248"	US-PGPUB; USPAT	ADJ	ON	2019/10/07 10:01
S754	5	"20090055019" "7750223".pn. "7062073".pn. "20010049248"	US-PGPUB; USPAT	OR	ON	2019/10/07 10:01
S755	20	("20020087987" | "20050028208" | "20060132326" | "20080120112" | "20080270449" | "20090112592" | "20100296654" | "20100332235" | "20110067059" | "20110134320" | "20110313775" | "5086385" | "7912447" | "20060192775" | "20070217586" | "20090319459" |	US-PGPUB; USPAT	OR	ON	2019/10/07 10:02

		"20100079508" | "20110205379" | "5912721" | "6657628").PN.				
S756	25	S754 or S755	US-PGPUB; USPAT	OR	ON	2019/10/07 10:22
S757	22	S756 and (speech or voice)	US-PGPUB; USPAT	OR	ON	2019/10/07 10:22
S758	7	"12256555"	US-PGPUB; USPAT	OR	ON	2019/10/07 15:17
S759	2	(US-20080130520-$ or US-20090046715-$).did.	US-PGPUB	OR	ON	2019/10/07 15:19
S760	1	(US-20160218884-$).did.	US-PGPUB	OR	ON	2019/10/07 15:44
S761	88	(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-	US-PGPUB; USPAT	OR	ON	2019/10/07 16:08

		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-$ or US-20120112538-$ or US-20110251807-$).did. or (US-20120228952-$ or US-20140170275-$ or US-20010025349-$ or US-20160231721-$ or US-20150226439-$ or US-20110170377-$ or US-20120325197-$ or US-20090183729-$ or US-20090294141-$ or US-20070220907-$ or US-20060237427-$ or US-20070016328-$ or US-20060164208-$ or US-20040129693-$ or US-20020000092-$ or US-20180034912-$ or US-20080130520-$ or US-20090046715-$ or US-20130235197-$ or US-20180278694-$ or US-20150138333-$ or US-20010049248-$ or US-20090055019-$ or US-20110067059-$).did. or (US-8140658-$ or US-7844687-$ or US-7797367-$ or US-7020701-$ or US-6859831-$ or US-6832251-$ or US-6826607-$ or US-6735630-$ or US-7750223-$ or US-8909370-$ or US-7062073-$).did.				
S762	21	S761 and (current with (consum$6 or usage or use or measure$4 or meter$4))	US-PGPUB; USPAT	OR	ON	2019/10/07 16:09
S763	11	(US-20170272316-$ or US-20180253069-$ or US-20110251807-$ or US-20120228952-$ or US-	US-PGPUB	OR	ON	2019/10/07 18:40

		20140170275-$ or US-20150226439-$ or US-20120325197-$ or US-20090183729-$ or US-20080130520-$ or US-20090046715-$ or US-20010025349-$).did.				
S764	7	S763 and command	US-PGPUB; USPAT	OR	ON	2019/10/07 18:41
S765	5	S763 and (measur$4 near9 (current or load or power or voltage))	US-PGPUB; USPAT	OR	ON	2019/10/07 18:46
S766	6	S763 and (actuator)	US-PGPUB; USPAT	OR	ON	2019/10/07 18:49
S767	11	(US-20170272316-$ or US-20180253069-$ or US-20110251807-$ or US-20120228952-$ or US-20140170275-$ or US-20150226439-$ or US-20120325197-$ or US-20090183729-$ or US-20080130520-$ or US-20090046715-$ or US-20010025349-$).did.	US-PGPUB	OR	ON	2019/10/08 03:31
S768	9	S767 and (AC or (alternat$4 adj3 current))	US-PGPUB; USPAT	OR	ON	2019/10/08 03:31
S769	9	S767 and (AC or (alternat$4 with current))	US-PGPUB; USPAT	OR	ON	2019/10/08 03:32
S770	87	(US-20130201316-$ 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-	US-PGPUB; USPAT	OR	ON	2019/10/08 03:33

		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-$ or US- 20120112538-$ or US- 20110251807-$).did. or (US- 20120228952-$ or US- 20140170275-$ or US- 20010025349-$ or US- 20150226439-$ or US- 20110170377-$ or US- 20120325197-$ or US- 20090183729-$ or US- 20090294141-$ or US- 20070220907-$ or US- 20060237427-$ or US- 20070016328-$ or US- 20060164208-$ or US- 20040129693-$ or US- 20020000092-$ or US- 20180034912-$ or US- 20080130520-$ or US- 20090046715-$ or US- 20130235197-$ or US- 20180278694-$ or US- 20150138333-$ or US- 20010049248-$ or US- 20090055019-$ or US-				

		20110067059-$).did. or (US-8140658-$ or US-7844687-$ or US-7797367-$ or US-7020701-$ or US-6859831-$ or US-6832251-$ or US-6826607-$ or US-6735630-$ or US-7750223-$ or US-8909370-$ or US-7062073-$).did.				
S771	31	S770 and (AC or (alternat$4 with current))	US-PGPUB; USPAT	OR	ON	2019/10/08 03:33
S772	31	S770 and (AC or (alternat$4 adj3 current))	US-PGPUB; USPAT	OR	ON	2019/10/08 03:34
S773	41	S770 and ((power or current) adj3 sensor)	US-PGPUB; USPAT	OR	ON	2019/10/08 03:54
S774	87	(US-20130201316-$ 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-	US-PGPUB; USPAT	OR	ON	2019/10/08 05:05

		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-$ or US-20120112538-$ or US-20110251807-$).did. or (US-20120228952-$ or US-20140170275-$ or US-20010025349-$ or US-20150226439-$ or US-20110170377-$ or US-20120325197-$ or US-20090183729-$ or US-20090294141-$ or US-20070220907-$ or US-20060237427-$ or US-20070016328-$ or US-20060164208-$ or US-20040129693-$ or US-20020000092-$ or US-20180034912-$ or US-20080130520-$ or US-20090046715-$ or US-20130235197-$ or US-20180278694-$ or US-20150138333-$ or US-20010049248-$ or US-20090055019-$ or US-20110067059-$).did. or (US-8140658-$ or US-7844687-$ or US-7797367-$ or US-7020701-$ or US-6859831-$ or US-6832251-$ or US-6826607-$ or US-6735630-$ or US-7750223-$ or US-8909370-$ or US-7062073-$).did.				
S775	45	S774 and ((power or current) near5 (usage or consum$6 or measur$6))	US-PGPUB; USPAT	OR	ON	2019/10/08 05:05
S776	37	S775 and (appliance or microwave or refrigerator or washing)	US-PGPUB; USPAT	OR	ON	2019/10/08 05:07
S777	5	(US-20080130520-$ or US-20120228952-$ or US-20120325197-$ or US-	US-PGPUB	OR	ON	2019/10/09 20:21

		20090046715-$ or US-20010025349-$).did.				
S778	6	(US-20080130520-$ or US-20120228952-$ or US-20120325197-$ or US-20090046715-$ or US-20110251807-$ or US-20010025349-$).did.	US-PGPUB	OR	ON	2019/10/09 20:21
S779	86	(US-20130201316-$ 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-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-	US-PGPUB; USPAT	OR	ON	2019/10/09 23:34

		20070021847-$ or US-20160344745-$ or US-20110055292-$ or US-20110032952-$ or US-20070225873-$ or US-20160218884-$ or US-20120112538-$ or US-20110251807-$ or US-20120228952-$).did. or (US-20140170275-$ or US-20010025349-$ or US-20150226439-$ or US-20110170377-$ or US-20120325197-$ or US-20090183729-$ or US-20090294141-$ or US-20070220907-$ or US-20060237427-$ or US-20070016328-$ or US-20060164208-$ or US-20040129693-$ or US-20020000092-$ or US-20180034912-$ or US-20080130520-$ or US-20090046715-$ or US-20130235197-$ or US-20180278694-$ or US-20150138333-$ or US-20010049248-$ or US-20090055019-$ or US-20110067059-$).did. or (US-8140658-$ or US-7844687-$ or US-7797367-$ or US-7020701-$ or US-6859831-$ or US-6832251-$ or US-6826607-$ or US-6735630-$ or US-7750223-$ or US-8909370-$ or US-7062073-$).did.				
S780	4	S779 and rabbit	US-PGPUB; USPAT	OR	ON	2019/10/09 23:34
S781	5	"9378509"	US-PGPUB; USPAT	OR	ON	2019/10/10 00:26
S782	1	"09378509"	US-PGPUB; USPAT	OR	ON	2019/10/10 00:27
S783	9	"09/378,509"	US-PGPUB; USPAT	OR	ON	2019/10/10 00:27
S784	87	(US-20130201316-$ or US-20100030421-$ or US-20120303216-$ or US-20140188343-$ or US-20140236384-$ or US-20070076593-$ or US-	US-PGPUB; USPAT	OR	ON	2019/10/10 04:27

		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- 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-$ or US- 20120112538-$ or US- 20110251807-$ or US- 20120228952-$).did. or (US- 20140170275-$ or US- 20010025349-$ or US- 20150226439-$ or US- 20110170377-$ or US- 20120325197-$ or US- 20090183729-$ or US-				

		20090294141-$ or US-20070220907-$ or US-20060237427-$ or US-20070016328-$ or US-20060164208-$ or US-20040129693-$ or US-20020000092-$ or US-20180034912-$ or US-20080130520-$ or US-20090046715-$ or US-20130235197-$ or US-20180278694-$ or US-20150138333-$ or US-20010049248-$ or US-20090055019-$ or US-20110067059-$).did. or (US-8140658-$ or US-7844687-$ or US-7797367-$ or US-7020701-$ or US-6859831-$ or US-6832251-$ or US-6826607-$ or US-6735630-$ or US-7750223-$ or US-8909370-$ or US-7062073-$ or US-6546297-$).did.				
S785	7	S784 and ((double adj2 throw) or (single adj2 pole) or (double adj2 pole))	US-PGPUB; USPAT	OR	ON	2019/10/10 04:28
S786	7	S784 and ((double adj2 throw) or (single adj2 pole) or (double adj2 pole) or (switch with (poles or throws)))	US-PGPUB; USPAT	OR	ON	2019/10/10 04:28
S787	13	S784 and (blender)	US-PGPUB; USPAT	OR	ON	2019/10/10 04:42
S788	0	S784 and (((double adj2 throw) or (single adj2 pole) or (double adj2 pole) or (switch with (poles or throws))) with "128")	US-PGPUB; USPAT	OR	ON	2019/10/10 04:57
S789	0	S784 and (((double adj2 throw) or (single adj2 pole) or (double adj2 pole) or (switch with (poles or throws))) same "128")	US-PGPUB; USPAT	OR	ON	2019/10/10 04:57
S790	9	S784 and ((double adj2 throw) or (single adj2 pole) or SPDT or (double adj2 pole) or (switch with (poles or throws)))	US-PGPUB; USPAT	OR	ON	2019/10/10 04:59
S791	1	"12660402"	US-PGPUB; USPAT	OR	ON	2019/10/10 05:01
S792	1	"12/660,402"	US-PGPUB; USPAT	OR	ON	2019/10/10 05:01
S793	87	(US-20130201316-$ or US-20100030421-$ or US-	US-PGPUB; USPAT	OR	ON	2019/10/11 06:02

		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- 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-$ or US- 20120112538-$ or US- 20110251807-$ or US- 20120228952-$).did. or (US- 20140170275-$ or US- 20010025349-$ or US-				

		20150226439-$ or US-20110170377-$ or US-20120325197-$ or US-20090183729-$ or US-20090294141-$ or US-20070220907-$ or US-20060237427-$ or US-20070016328-$ or US-20060164208-$ or US-20040129693-$ or US-20020000092-$ or US-20180034912-$ or US-20080130520-$ or US-20090046715-$ or US-20130235197-$ or US-20180278694-$ or US-20150138333-$ or US-20010049248-$ or US-20090055019-$ or US-20110067059-$).did. or (US-8140658-$ or US-7844687-$ or US-7797367-$ or US-7020701-$ or US-6859831-$ or US-6832251-$ or US-6826607-$ or US-6735630-$ or US-7750223-$ or US-8909370-$ or US-7062073-$ or US-6546297-$).did.				
S794	22	S793 and reed	US-PGPUB; USPAT	OR	ON	2019/10/11 06:03
S795	4	S793 and (galvanometer or (amp adj2 meter) or ampermeter)	US-PGPUB; USPAT	OR	ON	2019/10/11 06:34
S796	0	S793 and (hotwire)	US-PGPUB; USPAT	OR	ON	2019/10/11 06:34
S797	4	S793 and (hot-wire)	US-PGPUB; USPAT	OR	ON	2019/10/11 06:34
S798	4	S793 and (galvanometer or (amp adj2 meter) or amperemeter)	US-PGPUB; USPAT	OR	ON	2019/10/11 06:35
S799	11	S793 and (current adj2 sensor)	US-PGPUB; USPAT	OR	ON	2019/10/11 06:35
S800	4	S793 and (ammeter)	US-PGPUB; USPAT	OR	ON	2019/10/11 06:36
S801	87	(US-20130201316-$ 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-	US-PGPUB; USPAT	OR	ON	2019/10/11 12:24

		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- 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-$ or US- 20120112538-$ or US- 20110251807-$ or US- 20120228952-$).did. or (US- 20140170275-$ or US- 20010025349-$ or US- 20150226439-$ or US- 20110170377-$ or US- 20120325197-$ or US- 20090183729-$ or US- 20090294141-$ or US- 20070220907-$ or US- 20060237427-$ or US-				

		20070016328-$ or US-20060164208-$ or US-20040129693-$ or US-20020000092-$ or US-20180034912-$ or US-20080130520-$ or US-20090046715-$ or US-20130235197-$ or US-20180278694-$ or US-20150138333-$ or US-20010049248-$ or US-20090055019-$ or US-20110067059-$).did. or (US-8140658-$ or US-7844687-$ or US-7797367-$ or US-7020701-$ or US-6859831-$ or US-6832251-$ or US-6826607-$ or US-6735630-$ or US-7750223-$ or US-8909370-$ or US-7062073-$ or US-6546297-$).did.				
S802	21	S801 and zigbee	US-PGPUB; USPAT	OR	ON	2019/10/11 12:24
S803	2	"20120253480"	US-PGPUB; USPAT	OR	ON	2019/10/11 14:26
S804	13	(US-20170272316-$ or US-20180253069-$ or US-20110251807-$ or US-20120228952-$ or US-20140170275-$ or US-20150226439-$ or US-20120325197-$ or US-20090183729-$ or US-20080130520-$ or US-20090046715-$ or US-20010025349-$ or US-20110170377-$).did. or (US-6546297-$).did.	US-PGPUB; USPAT	OR	ON	2019/10/11 14:33
S805	3	S804 and zigbee	US-PGPUB; USPAT	OR	ON	2019/10/11 14:34
S806	1	S804 and (personal adj2 area adj2 network)	US-PGPUB; USPAT	OR	ON	2019/10/11 14:36
S807	0	S804 and (mesh adj2 network)	US-PGPUB; USPAT	OR	ON	2019/10/11 14:38
S808	87	(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	OR	ON	2019/10/11 14:38

		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- 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-$ or US- 20120112538-$ or US- 20110251807-$ or US- 20120228952-$).did. or (US- 20140170275-$ or US- 20010025349-$ or US- 20150226439-$ or US- 20110170377-$ or US- 20120325197-$ or US- 20090183729-$ or US- 20090294141-$ or US- 20070220907-$ or US-				

		20060237427-$ or US-20070016328-$ or US-20060164208-$ or US-20040129693-$ or US-20020000092-$ or US-20180034912-$ or US-20080130520-$ or US-20090046715-$ or US-20130235197-$ or US-20180278694-$ or US-20150138333-$ or US-20010049248-$ or US-20090055019-$ or US-20110067059-$).did. or (US-8140658-$ or US-7844687-$ or US-7797367-$ or US-7020701-$ or US-6859831-$ or US-6832251-$ or US-6826607-$ or US-6735630-$ or US-7750223-$ or US-8909370-$ or US-7062073-$ or US-6546297-$).did.				
S809	7	S808 and (mesh adj2 network)	US-PGPUB; USPAT	OR	ON	2019/10/11 14:38
S810	14	(US-20170272316-$ or US-20180253069-$ or US-20110251807-$ or US-20120228952-$ or US-20140170275-$ or US-20150226439-$ or US-20120325197-$ or US-20090183729-$ or US-20080130520-$ or US-20090046715-$ or US-20010025349-$ or US-20110170377-$ or US-20080031139-$).did. or (US-6546297-$).did.	US-PGPUB; USPAT	OR	ON	2019/10/11 16:05
S811	4	S810 and (WLAN or IEEE)	US-PGPUB; USPAT	OR	ON	2019/10/11 16:05
S812	3	(US-20110170377-$ or US-20110251807-$ or US-20010025349-$).did.	US-PGPUB	OR	ON	2019/10/12 05:56
S814	1	S812 and (WLAN or (wireless adj3 LAN))	US-PGPUB; USPAT	OR	ON	2019/10/12 05:59
S815	1	S812 and (WLAN or (wireless adj3 local))	US-PGPUB; USPAT	OR	ON	2019/10/12 06:00
S816	0	S812 and ((wireless adj3 local))	US-PGPUB; USPAT	OR	ON	2019/10/12 06:00
S817	2	S812 and ((wireless adj3 network))	US-PGPUB; USPAT	OR	ON	2019/10/12 06:00

S818	1	S812 and (ISM or broadband)	US-PGPUB; USPAT	OR	ON	2019/10/12 06:06
S819	1	S812 and (satellite)	US-PGPUB; USPAT	OR	ON	2019/10/12 06:07
S820	0	S812 and (industrial near5 scientific)	US-PGPUB; USPAT	OR	ON	2019/10/12 06:07
S821	87	(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-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-	US-PGPUB; USPAT	OR	ON	2019/10/12 06:07

		20160344745-$ or US-20110055292-$ or US-20110032952-$ or US-20070225873-$ or US-20160218884-$ or US-20120112538-$ or US-20110251807-$ or US-20120228952-$).did. or (US-20140170275-$ or US-20010025349-$ or US-20150226439-$ or US-20110170377-$ or US-20120325197-$ or US-20090183729-$ or US-20090294141-$ or US-20070220907-$ or US-20060237427-$ or US-20070016328-$ or US-20060164208-$ or US-20040129693-$ or US-20020000092-$ or US-20180034912-$ or US-20080130520-$ or US-20090046715-$ or US-20130235197-$ or US-20180278694-$ or US-20150138333-$ or US-20010049248-$ or US-20090055019-$ or US-20110067059-$).did. or (US-8140658-$ or US-7844687-$ or US-7797367-$ or US-7020701-$ or US-6859831-$ or US-6832251-$ or US-6826607-$ or US-6735630-$ or US-7750223-$ or US-8909370-$ or US-7062073-$ or US-6546297-$).did.				
S822	20	S821 and (industrial near5 scientific)	US-PGPUB; USPAT	OR	ON	2019/10/12 06:07
S823	17	S822 and broadband	US-PGPUB; USPAT	OR	ON	2019/10/12 06:08
S824	4	S823 and (wimax or wi-max or (wi adj max))	US-PGPUB; USPAT	OR	ON	2019/10/12 06:08
S825	1	"20050125083"	US-PGPUB; USPAT	OR	ON	2019/10/12 06:10
S826	4	(US-20050125083-$ or US-20110170377-$ or US-20110251807-$ or US-20010025349-$).did.	US-PGPUB	OR	ON	2019/10/12 07:11
S827	1	S826 and ((multiple or many or plurality) with sensors)	US-PGPUB	OR	ON	2019/10/12 07:22

S828	4	(US-20050125083-$ or US-20110170377-$ or US-20110251807-$ or US-20010025349-$).did.	US-PGPUB	OR	ON	2019/10/12 11:48
S829	0	S828 and (piezo or crystal or shear or transverse or longitu$4)	US-PGPUB	OR	ON	2019/10/12 11:48
S830	88	(US-20130201316-$ 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-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-	US-PGPUB; USPAT	OR	ON	2019/10/12 11:49

		20110055292-$ or US-20110032952-$ or US-20070225873-$ or US-20160218884-$ or US-20120112538-$ or US-20110251807-$ or US-20120228952-$).did. or (US-20140170275-$ or US-20010025349-$ or US-20150226439-$ or US-20110170377-$ or US-20120325197-$ or US-20090183729-$ or US-20090294141-$ or US-20070220907-$ or US-20060237427-$ or US-20070016328-$ or US-20060164208-$ or US-20040129693-$ or US-20020000092-$ or US-20180034912-$ or US-20080130520-$ or US-20090046715-$ or US-20130235197-$ or US-20180278694-$ or US-20150138333-$ or US-20010049248-$ or US-20090055019-$ or US-20110067059-$ or US-20050125083-$).did. or (US-8140658-$ or US-7844687-$ or US-7797367-$ or US-7020701-$ or US-6859831-$ or US-6832251-$ or US-6826607-$ or US-6735630-$ or US-7750223-$ or US-8909370-$ or US-7062073-$ or US-6546297-$).did.				
S831	26	S830 and (piezo or crystal or shear or transverse or longitu$4)	US-PGPUB	OR	ON	2019/10/12 11:49
S832	12	S830 and ((piezo or crystal or shear or transverse or longitu$4) with sensor)	US-PGPUB	OR	ON	2019/10/12 11:49
S833	1	S828 and ((multiple or many or plurality) with sensors)	US-PGPUB	OR	ON	2019/10/12 12:06
S834	10	S830 and (sensor adj2 array)	US-PGPUB	OR	ON	2019/10/12 12:09
S835	1	S828 and (nano or crystal or semiconductor or silicon)	US-PGPUB	OR	ON	2019/10/12 12:15
S836	4	(eddy with current with sensor) with appliance	US-PGPUB	OR	ON	2019/10/12 12:23

S837	11	(eddy with current with sensor) same appliance	US-PGPUB	OR	ON	2019/10/12 12:24
S838	3,016	(eddy adj2 current adj2 sensor)	US-PGPUB	OR	ON	2019/10/12 12:26
S839	241	S838 and appliance	US-PGPUB	OR	ON	2019/10/12 12:26
S840	214	S839 and network	US-PGPUB	OR	ON	2019/10/12 12:26
S841	6	S830 and (eddy with current)	US-PGPUB	OR	ON	2019/10/12 12:28
S842	1	S828 and (electromagnet)	US-PGPUB	OR	ON	2019/10/12 12:49
S843	4	S828 and (sensor)	US-PGPUB	OR	ON	2019/10/12 12:49
S844	62	S840 and crystal	US-PGPUB	OR	ON	2019/10/12 12:53
S845	16	(US-20170272316-$ or US-20180253069-$ or US-20110251807-$ or US-20120228952-$ or US-20140170275-$ or US-20150226439-$ or US-20090183729-$ or US-20080130520-$ or US-20090046715-$ or US-20010025349-$ or US-20110170377-$ or US-20080031139-$ or US-20050125083-$ or US-20070283005-$ or US-20110148651-$).did. or (US-6546297-$).did.	US-PGPUB; USPAT	OR	ON	2019/10/12 13:03
S846	15	S845 and (atmospher$4 or environment$4)	US-PGPUB; USPAT	OR	ON	2019/10/12 13:03
S847	4	S845 and (atmospher$4)	US-PGPUB; USPAT	OR	ON	2019/10/12 13:03
S848	16	(US-20170272316-$ or US-20180253069-$ or US-20110251807-$ or US-20120228952-$ or US-20140170275-$ or US-20150226439-$ or US-20090183729-$ or US-20080130520-$ or US-20090046715-$ or US-20010025349-$ or US-20110170377-$ or US-20080031139-$ or US-	US-PGPUB; USPAT	OR	ON	2019/10/12 13:07

		20050125083-$ or US-20070283005-$ or US-20110148651-$).did. or (US-6546297-$).did.				
S849	89	(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-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-	US-PGPUB; USPAT	OR	ON	2019/10/12 13:14

		20070225873-$ or US-20160218884-$ or US-20120112538-$ or US-20110251807-$ or US-20120228952-$).did. or (US-20140170275-$ or US-20010025349-$ or US-20150226439-$ or US-20110170377-$ or US-20120325197-$ or US-20090183729-$ or US-20090294141-$ or US-20070220907-$ or US-20060237427-$ or US-20070016328-$ or US-20060164208-$ or US-20040129693-$ or US-20020000092-$ or US-20180034912-$ or US-20080130520-$ or US-20090046715-$ or US-20130235197-$ or US-20180278694-$ or US-20150138333-$ or US-20010049248-$ or US-20090055019-$ or US-20110067059-$ or US-20050125083-$ or US-20110148651-$).did. or (US-8140658-$ or US-7844687-$ or US-7797367-$ or US-7020701-$ or US-6859831-$ or US-6832251-$ or US-6826607-$ or US-6735630-$ or US-7750223-$ or US-8909370-$ or US-7062073-$ or US-6546297-$).did.				
S850	47	S849 and (radiation or gas)	US-PGPUB; USPAT	OR	ON	2019/10/12 13:14
S851	6	S849 and (nuclear)	US-PGPUB; USPAT	OR	ON	2019/10/12 13:17
S852	4	S849 and (ionization)	US-PGPUB; USPAT	OR	ON	2019/10/12 13:17
S853	20	S849 and (radioactiv$4 or alpha or beta or gamma)	US-PGPUB; USPAT	OR	ON	2019/10/12 13:28
S854	1,998	(geiger with sensor)	US-PGPUB; USPAT	OR	ON	2019/10/12 13:34
S855	0	(geiger with sensor) with appliance	US-PGPUB; USPAT	OR	ON	2019/10/12 13:34
S856	9	(geiger with sensor) same appliance	US-PGPUB; USPAT	OR	ON	2019/10/12 13:35

S857	550	(geiger with sensor) with radiation	US-PGPUB; USPAT	OR	ON	2019/10/12 13:35
S858	2	"5936164".pn. "5706565".pn.	US-PGPUB; USPAT	OR	ON	2019/10/12 13:40
S859	89	(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-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-	US-PGPUB; USPAT	OR	ON	2019/10/12 18:14

		20070225873-$ or US-20160218884-$ or US-20120112538-$ or US-20110251807-$ or US-20120228952-$).did. or (US-20140170275-$ or US-20010025349-$ or US-20150226439-$ or US-20110170377-$ or US-20120325197-$ or US-20090183729-$ or US-20090294141-$ or US-20070220907-$ or US-20060237427-$ or US-20070016328-$ or US-20060164208-$ or US-20040129693-$ or US-20020000092-$ or US-20180034912-$ or US-20080130520-$ or US-20090046715-$ or US-20130235197-$ or US-20180278694-$ or US-20150138333-$ or US-20010049248-$ or US-20090055019-$ or US-20110067059-$ or US-20050125083-$ or US-20110148651-$).did. or (US-8140658-$ or US-7844687-$ or US-7797367-$ or US-7020701-$ or US-6859831-$ or US-6832251-$ or US-6826607-$ or US-6735630-$ or US-7750223-$ or US-8909370-$ or US-7062073-$ or US-6546297-$).did.				
S860	23	S859 and (CMOS)	US-PGPUB; USPAT	OR	ON	2019/10/12 18:14
S861	91	(US-20130201316-$ 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-	US-PGPUB; USPAT	OR	ON	2019/10/12 18:15

		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- 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-$ or US- 20120112538-$ or US- 20110251807-$ or US- 20120228952-$).did. or (US- 20140170275-$ or US- 20010025349-$ or US- 20150226439-$ or US- 20110170377-$ or US- 20120325197-$ or US- 20090183729-$ or US- 20090294141-$ or US- 20070220907-$ or US- 20060237427-$ or US- 20070016328-$ or US- 20060164208-$ or US- 20040129693-$ or US- 20020000092-$ or US- 20180034912-$ or US- 20080130520-$ or US-				

		20090046715-$ or US-20130235197-$ or US-20180278694-$ or US-20150138333-$ or US-20010049248-$ or US-20090055019-$ or US-20110067059-$ or US-20050125083-$ or US-20110148651-$ or US-20080154535-$ or US-20100211359-$).did. or (US-8140658-$ or US-7844687-$ or US-7797367-$ or US-7020701-$ or US-6859831-$ or US-6832251-$ or US-6826607-$ or US-6735630-$ or US-7750223-$ or US-8909370-$ or US-7062073-$ or US-6546297-$).did.				
S862	16	(US-20170272316-$ or US-20180253069-$ or US-20110251807-$ or US-20120228952-$ or US-20140170275-$ or US-20150226439-$ or US-20090183729-$ or US-20080130520-$ or US-20090046715-$ or US-20010025349-$ or US-20110170377-$ or US-20080031139-$ or US-20050125083-$ or US-20070283005-$ or US-20110148651-$).did. or (US-6546297-$).did.	US-PGPUB; USPAT	OR	ON	2019/10/12 18:15
S863	2	S862 and (CMOS)	US-PGPUB; USPAT	OR	ON	2019/10/12 18:15
S864	1	S862 and (MOSFET)	US-PGPUB; USPAT	OR	ON	2019/10/12 18:20
S865	1	S862 and (MP4 or MOV or AVI or WMV or DV)	US-PGPUB; USPAT	OR	ON	2019/10/12 18:33
S866	3	S862 and (file adj3 format)	US-PGPUB; USPAT	OR	ON	2019/10/12 18:35
S867	7	2010/0211359	US-PGPUB; USPAT	OR	ON	2019/10/12 18:37
S868	11	S862 and (microphone or electracoustic or acoustic or ribbon or carbon or piezoelectric)	US-PGPUB; USPAT	OR	ON	2019/10/12 18:54
S869	11	S862 and (microphone or electroacoustic or acoustic or ribbon or carbon or piezoelectric)	US-PGPUB; USPAT	OR	ON	2019/10/12 18:54

S870	10	S861 and ((notification or alert) with (LED or light))	US-PGPUB; USPAT	OR	ON	2019/10/12 19:10
S871	124	(smart adj plug) with (led or light or bulb)	US-PGPUB; USPAT	OR	ON	2019/10/12 19:26
S872	36	S861 and ((status or indicator) with (led or light or bulb or flash$4))	US-PGPUB; USPAT	OR	ON	2019/10/12 19:32
S873	16	(US-20170272316-$ or US-20180253069-$ or US-20110251807-$ or US-20120228952-$ or US-20140170275-$ or US-20150226439-$ or US-20090183729-$ or US-20080130520-$ or US-20090046715-$ or US-20010025349-$ or US-20110170377-$ or US-20080031139-$ or US-20050125083-$ or US-20070283005-$ or US-20110148651-$).did. or (US-6546297-$).did.	US-PGPUB; USPAT	OR	ON	2019/10/12 21:45
S874	12	S873 and actuat$4	US-PGPUB; USPAT	OR	ON	2019/10/12 21:45
S875	5	S873 and chemical	US-PGPUB; USPAT	OR	ON	2019/10/12 21:57
S876	12	S873 and (IP address)	US-PGPUB; USPAT	OR	ON	2019/10/12 22:04
S877	6	S873 and (map$4)	US-PGPUB; USPAT	OR	ON	2019/10/12 22:14
S878	12	S873 and (map$4 or addresses)	US-PGPUB; USPAT	OR	ON	2019/10/12 22:14
S879	2	S873 and (EUI or DHCP)	US-PGPUB; USPAT	OR	ON	2019/10/12 22:18
S880	91	(US-20130201316-$ 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-	US-PGPUB; USPAT	OR	ON	2019/10/12 22:18

		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- 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-$ or US- 20120112538-$ or US- 20110251807-$ or US- 20120228952-$).did. or (US- 20140170275-$ or US- 20010025349-$ or US- 20150226439-$ or US- 20110170377-$ or US- 20120325197-$ or US- 20090183729-$ or US- 20090294141-$ or US- 20070220907-$ or US- 20060237427-$ or US- 20070016328-$ or US- 20060164208-$ or US- 20040129693-$ or US- 20020000092-$ or US- 20180034912-$ or US-				

		20080130520-$ or US-20090046715-$ or US-20130235197-$ or US-20180278694-$ or US-20150138333-$ or US-20010049248-$ or US-20090055019-$ or US-20110067059-$ or US-20050125083-$ or US-20110148651-$ or US-20080154535-$ or US-20100211359-$).did. or (US-8140658-$ or US-7844687-$ or US-7797367-$ or US-7020701-$ or US-6859831-$ or US-6832251-$ or US-6826607-$ or US-6735630-$ or US-7750223-$ or US-8909370-$ or US-7062073-$ or US-6546297-$).did.				
S881	2	S873 and (MAC)	US-PGPUB; USPAT	OR	ON	2019/10/12 22:18
S882	29	S880 and (MAC)	US-PGPUB; USPAT	OR	ON	2019/10/12 22:19
S883	15	S880 and (DHCP)	US-PGPUB; USPAT	OR	ON	2019/10/12 22:19
S884	14	S880 and ((MAC or (media adj2 access adj2 control)) adj2 address)	US-PGPUB; USPAT	OR	ON	2019/10/12 22:21
S885	13	S880 and ((identifier or ID) near5 (source or destination))	US-PGPUB; USPAT	OR	ON	2019/10/12 22:24
S886	14	S880 and (DHCP) and (IP near3 address)	US-PGPUB; USPAT	OR	ON	2019/10/12 22:27
S887	15	S880 and (((MAC or (media adj2 access adj2 control)) adj2 address) or (hardware adj2 address))	US-PGPUB; USPAT	OR	ON	2019/10/12 22:56
S888	14	S887 and sensor	US-PGPUB; USPAT	OR	ON	2019/10/12 22:58
S889	1,932	(sensor with MAC with address)	US-PGPUB; USPAT	OR	ON	2019/10/12 23:02
S890	512	S889 and (fire or smoke)	US-PGPUB; USPAT	OR	ON	2019/10/12 23:02
S891	245	S890 and actuat$4	US-PGPUB; USPAT	OR	ON	2019/10/12 23:02
S892	5,773	709/218.ccls.	US-PGPUB; USPAT	OR	ON	2019/10/12 23:33
S893	21,052	H04L67/12.cpc.	US-PGPUB; USPAT	OR	ON	2019/10/12 23:33
S894	104,130	B60K 31/00.cpc. B60K 31/18.cpc. B60Y2200/11.cpc.	US-PGPUB; USPAT	OR	ON	2019/10/12 23:33

		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.				
S895	49	(maytal and benjamin).in.	US-PGPUB; USPAT	OR	ON	2019/10/12 23:33
S896	406	(binder and yehuda).in.	US-PGPUB; USPAT	OR	ON	2019/10/12 23:33
S897	66	(may and patents).aanm.	US-PGPUB; USPAT	OR	ON	2019/10/12 23:33
S898	41	(may and patents).as.	US-PGPUB; USPAT	OR	ON	2019/10/12 23:33
S899	449	S895 S896 S897 S898	US-PGPUB; USPAT	OR	ON	2019/10/12 23:33
S900	129,450	S892 or S893 or S894 or S899	US-PGPUB; USPAT	OR	ON	2019/10/12 23:33
S901	5	S900 and (relay with solenoid with reed).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/12 23:33
S902	14	(US-20110251807-$ or US-20090183729-$ or US-20080130520-$ or US-20090046715-$ or US-20010025349-$ or US-20110170377-$ or US-20080031139-$ or US-20050125083-$ or US-20070283005-$ or US-20110148651-$ or US-20110298301-$ or US-20100298957-$ or US-20100071053-$).did. or (US-6546297-$).did.	US-PGPUB; USPAT	OR	ON	2019/10/12 23:36
S903	3	S902 and radiation	US-PGPUB; USPAT	OR	ON	2019/10/12 23:36
S904	92	(US-20130201316-$ or US-20100030421-$ or US-20120303216-$ or US-20140188343-$ or US-	US-PGPUB; USPAT	OR	ON	2019/10/12 23:37

		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- 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-$ or US- 20120112538-$ or US- 20110251807-$ or US- 20120228952-$).did. or (US- 20140170275-$ or US- 20010025349-$ or US- 20150226439-$ or US- 20110170377-$ or US-				

		20120325197-$ or US-20090183729-$ or US-20090294141-$ or US-20070220907-$ or US-20060237427-$ or US-20070016328-$ or US-20060164208-$ or US-20040129693-$ or US-20020000092-$ or US-20180034912-$ or US-20080130520-$ or US-20090046715-$ or US-20130235197-$ or US-20180278694-$ or US-20150138333-$ or US-20010049248-$ or US-20090055019-$ or US-20110067059-$ or US-20050125083-$ or US-20110148651-$ or US-20080154535-$ or US-20100211359-$ or US-20180278693-$).did. or (US-8140658-$ or US-7844687-$ or US-7797367-$ or US-7020701-$ or US-6859831-$ or US-6832251-$ or US-6826607-$ or US-6735630-$ or US-7750223-$ or US-8909370-$ or US-7062073-$ or US-6546297-$).did.				
S905	28	S904 and radiation	US-PGPUB; USPAT	OR	ON	2019/10/12 23:37
S906	0	S904 and radiation and (alert with public)	US-PGPUB; USPAT	OR	ON	2019/10/12 23:37
S907	21	S904 and radiation and (alert and public)	US-PGPUB; USPAT	OR	ON	2019/10/12 23:37
S908	2	"20100211359"	US-PGPUB; USPAT	OR	ON	2019/10/12 23:38
S909	2	S908 and radiation	US-PGPUB; USPAT	OR	ON	2019/10/12 23:39
S910	28	S904 and radiation	US-PGPUB; USPAT	OR	ON	2019/10/12 23:39
S911	94	(US-20130201316-$ 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-	US-PGPUB; USPAT	OR	ON	2019/10/29 11:48

		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- 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-$ or US- 20120112538-$ or US- 20110251807-$ or US- 20120228952-$).did. or (US- 20140170275-$ or US- 20010025349-$ or US- 20150226439-$ or US- 20110170377-$ or US- 20120325197-$ or US- 20090183729-$ or US- 20090294141-$ or US- 20070220907-$ or US- 20060237427-$ or US-				

		20070016328-$ or US-20060164208-$ or US-20040129693-$ or US-20020000092-$ or US-20180034912-$ or US-20080130520-$ or US-20090046715-$ or US-20130235197-$ or US-20180278694-$ or US-20150138333-$ or US-20010049248-$ or US-20090055019-$ or US-20110067059-$ or US-20050125083-$ or US-20110148651-$ or US-20080154535-$ or US-20100211359-$ or US-20180278693-$).did. or (US-20110298301-$ or US-20100298957-$).did. or (US-8140658-$ or US-7844687-$ or US-7797367-$ or US-7020701-$ or US-6859831-$ or US-6832251-$ or US-6826607-$ or US-6735630-$ or US-7750223-$ or US-8909370-$ or US-7062073-$ or US-6546297-$).did.				
S912	50	S911 and plug	US-PGPUB; USPAT	OR	ON	2019/10/29 11:49
S913	15	(US-20110251807-$ or US-20090183729-$ or US-20080130520-$ or US-20090046715-$ or US-20010025349-$ or US-20110170377-$ or US-20080031139-$ or US-20050125083-$ or US-20070283005-$ or US-20110148651-$ or US-20110298301-$ or US-20100298957-$ or US-20100071053-$ or US-20100211359-$).did. or (US-6546297-$).did.	US-PGPUB; USPAT	OR	ON	2019/11/22 00:06
S914	1	"20110928301" "20100281884"	US-PGPUB; USPAT	OR	ON	2020/02/05 15:47
S915	3	"20110298301" "20100281884"	US-PGPUB; USPAT	OR	ON	2020/02/05 15:48
S916	4	"20110298301" "20150222852"	US-PGPUB; USPAT	OR	ON	2020/02/05 15:52

S917	15	(US-20110251807-$ or US-20090183729-$ or US-20080130520-$ or US-20090046715-$ or US-20010025349-$ or US-20110170377-$ or US-20080031139-$ or US-20050125083-$ or US-20070283005-$ or US-20110148651-$ or US-20110298301-$ or US-20100298957-$ or US-20100071053-$ or US-20100211359-$).did. or (US-6546297-$).did.	US-PGPUB; USPAT	OR	ON	2020/02/07 05:13
S918	2	S917 and (process adj2 control adj2 apparatus)	US-PGPUB; USPAT	OR	ON	2020/02/07 05:13
S919	1	"15992221"	US-PGPUB; USPAT	OR	ON	2020/02/12 16:06
S920	5,772	709/218.ccls.	US-PGPUB; USPAT	OR	ON	2020/02/14 01:34
S921	22,897	H04L67/12.cpc.	US-PGPUB; USPAT	OR	ON	2020/02/14 01:34
S922	133,651	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	2020/02/14 01:34
S923	52	(maytal and benjamin).in.	US-PGPUB; USPAT	OR	ON	2020/02/14 01:34
S924	436	(binder and yehuda).in.	US-PGPUB; USPAT	OR	ON	2020/02/14 01:34
S925	81	(may and patents).aanm.	US-PGPUB; USPAT	OR	ON	2020/02/14 01:34
S926	54	(may and patents).as.	US-PGPUB; USPAT	OR	ON	2020/02/14 01:34
S927	477	S923 S924 S925 S926	US-PGPUB; USPAT	OR	ON	2020/02/14 01:34
S928	159,925	S920 or S921 or S922 or S927	US-PGPUB; USPAT	OR	ON	2020/02/14 01:34

S929	5	S928 and (relay with solenoid with reed).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2020/02/14 01:34

EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L11	5,774	709/218.ccls.	US-PGPUB; USPAT	OR	ON	2021/10/09 11:28
L12	31,400	H04L67/12.cpc.	US-PGPUB; USPAT	OR	ON	2021/10/09 11:28
L13	172,605	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	2021/10/09 11:28
L14	58	(maytal and benjamin).in.	US-PGPUB; USPAT	OR	ON	2021/10/09 11:28
L15	502	(binder and yehuda).in.	US-PGPUB; USPAT	OR	ON	2021/10/09 11:29
L16	141	(may and patents).aanm.	US-PGPUB; USPAT	OR	ON	2021/10/09 11:29
L17	81	(may and patents).as.	US-PGPUB; USPAT	OR	ON	2021/10/09 11:29
L18	206,062	11 12 13 14 15 16 17	US-PGPUB; USPAT	OR	ON	2021/10/09 11:33
L20	7	18 and (relay with solenoid with reed).clm.	US-PGPUB; USPAT	OR	ON	2021/10/09 11:33

10/9/2021 11:33:53 AM
C:\Users\hkhan2\Documents\EAST\Workspaces\15992221.wsp

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	)	August 12, 2021
	)	

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 PTAB Decision dated July 22, 2021 (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) 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;

a first sensor having an output that responds to a physical phenomenon;

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 first sensor, the antenna, and the wireless transceiver,

wherein the first sensor is coupled to the wireless transceiver for transmitting digital data in response to the physical phenomenon to the wireless network,

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.

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) 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) 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) The appliance according to claim 30, wherein the cellular telephone network is a 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. (Cancelled)

33. (Withdrawn, Currently amended) The appliance according to claim 1 ~~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, Currently amended) The appliance according to claim 1 ~~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, Currently amended) The appliance according to claim 1 ~~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, Currently amended) The appliance according to claim 1 ~~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, Currently amended) The appliance according to claim 1 ~~32~~, wherein the first sensor consists of, or comprises, a nanosensor, a crystal, or a semiconductor.

38. (Withdrawn, Currently amended) The appliance according to claim 1 ~~32~~, wherein the first sensor consists of, or comprises, an eddy-current sensor.

39. (Withdrawn, Currently amended) The appliance according to claim 1 ~~32~~, wherein the first sensor consists of, or comprises, an atmospheric or an environmental sensor.

40. (Withdrawn, Currently amended) The appliance according to claim 1 ~~32~~, wherein the first sensor consists of, or comprises, a bulk or surface acoustic sensor.

41. (Withdrawn, Currently amended) The appliance according to claim 1 ~~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, Currently amended) The appliance according to claim 1 ~~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, Currently amended) The appliance according to claim 1 ~~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 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, Currently amended) The appliance according to claim 1 ~~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, Currently amended) The appliance according to claim 1 ~~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 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) The appliance according to claim 61, wherein the digital address is a Media Access Control (MAC) layer address that is MAC-48, Extended Unique Identifier (EUI) EUI-48, or EUI-64 address type.

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

64. (Withdrawn) 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).

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REMARKS / COMMENTS

The PTAB decision dated July 22, 2021 ("Action"), has been received and its contents carefully noted.

The content of the PTAB allowed claim 32 is incorporated into claim 1.

It is noted that all dependent claims, including the withdrawn ones, should be rejoined as allowed.

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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, 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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Amazon EX1003 Page 179

Electronic Acknowledgement Receipt	
EFS ID:	43489814
Application Number:	15992221
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Confirmation Number:	8906
Title of Invention:	SYSTEM AND METHOD FOR SERVER BASED CONTROL
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Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		Claims-after-appeal.pdf	50966 0e7eada92c57c9ed33ff94e502574bece6b21329	yes	14

	Multipart Description/PDF files in .zip description		
	Document Description	**Start**	**End**
	Amendment/Argument after Patent Board Decision	1	1
	Claims	2	12
	Applicant Arguments/Remarks Made in an Amendment	13	14
Warnings:			
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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 $50 =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*		x $230 =	
☐ 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

		(Column 1)		(Column 2)	(Column 3)			
AMENDMENT	08/12/2021	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		RATE ($)	ADDITIONAL FEE ($)
	Total (37 CFR 1.16(i))	* 63	Minus	** 64	= 0		x $50 =	0
	Independent (37 CFR 1.16(h))	* 1	Minus	*** 3	= 0		x $240 =	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

		(Column 1)		(Column 2)	(Column 3)			
AMENDMENT		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		RATE ($)	ADDITIONAL FEE ($)
	Total (37 CFR 1.16(i))	*	Minus	**	=		x $0 =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=		x $0 =	
	☐ 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.	OPAC
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".	/BRIDGET C. MONROE/
*** 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.	

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.**

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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 07/22/2021

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EXAMINER	
KHAN, HASSAN ABDUR-RAHMAN	

ART UNIT	PAPER NUMBER
2456	

MAIL DATE	DELIVERY MODE
07/22/2021	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.

UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

Ex parte YEHUDA BINDER and BENJAMIN MAYTAL

Appeal 2020-002710
Application 15/992,221
Technology Center 2400

Before JOHN A. JEFFERY, JUSTIN BUSCH, and JOYCE CRAIG, *Administrative Patent Judges*.

JEFFERY, *Administrative Patent Judge*.

DECISION ON APPEAL

Under 35 U.S.C. § 134(a), Appellant[1] appeals from the Examiner's decision to reject claims 1–64. We have jurisdiction under 35 U.S.C. § 6(b).

We AFFIRM IN PART.

[1] We use the word "Appellant" to refer to "applicant" as defined in 37 C.F.R. § 1.42. Appellant identifies the real party in interest as May Patents Ltd. Appeal Br. 2.

STATEMENT OF THE CASE

Appellant's invention is a control system including an appliance 58a, AC power plug 68, and sensor unit 50e. *See* Abstract; Spec. 109, 112; Fig. 5e. The sensor unit 50e is a single enclosure enclosing (1) sensors 57a and 57b measuring current flow from the AC power plug 68 to the appliance 58a; (2) an antenna 55 communicating over a wireless network; and (3) a wireless transceiver 54 that (a) transmits digital data to the wireless network in response to measured current flow from the sensors 57a and 57b, and (b) receives digital data from the wireless network. *See* Spec. 83, 112, 163–165; Figs. 5e, 17. Claim 1 is illustrative:

> 1. 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;
>
> 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.

RELATED APPEALS

On pages 2–3 of the Appeal Brief, Appellant identifies five related appeals as follows.

Application Number	**Appeal Number**	**Appeal Status**
13/733,634	2018-007694	Decision mailed Mar. 2, 2020; Decision on Rehearing mailed May 18, 2020
15/657,163[2]	2019-002056	Decision mailed May 4, 2020
15/361,434	2019-000272	Decision mailed June 10, 2020
15/716,881	2019-002059	Decision mailed June 30, 2020
15/992,219	2020-004104	Undecided

In *Ex parte Binder*, Appeal 2018-007694 (PTAB Mar. 2, 2020) ("Bd. Dec."), among other things, we affirmed the Examiner's obviousness rejection that cited one of the references at issue here, namely Ansari. *See* Bd. Dec. 43–44.

[2] Although Appellant cited this application number as 16/657,163, this is a typographical error that we have corrected, and hold as harmless error.

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THE REJECTIONS

The Examiner rejected claims 1–7, 9, 10, 12–19, 32–34, 36, and 54–58 under 35 U.S.C. § 102(b) as anticipated by Sharood (US 2001/0025349 A1; published Sept. 27, 2001). Non-Final Act. 3–13.[3]

The Examiner rejected claims 8, 11, 20, 21, 23, 24, and 51–53 under 35 U.S.C. § 103 as unpatentable over Sharood and Legaspi (US 2011/0170377 A1; published July 14, 2011). Non-Final Act. 16–21.

The Examiner rejected claims 22 and 29 under 35 U.S.C. § 103 as unpatentable over Sharood, Legaspi, and Rada (US 2011/0251807 A1; published Oct. 13, 2011). Non-Final Act. 21–22.

The Examiner rejected claims 25–28, 30, 31, 35, and 37 under 35 U.S.C. § 103 as unpatentable over Sharood and Kiko (US 2005/0125083 A1; published June 9, 2005). Non-Final Act. 22–27.

The Examiner rejected claims 38–40, 42, 43, 47–50, 59, and 60[4] under 35 U.S.C. § 103 as unpatentable over Sharood and Hendrickson (US 2011/0148651 A1; published June 23, 2011). Non-Final Act. 14–15, 27–30; Ans. 14.

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[3] Throughout this opinion, we refer to (1) the Non-Final Rejection mailed October 31, 2019 ("Non-Final Act."); (2) the Appeal Brief filed November 15, 2019 ("Appeal Br."); (3) the Examiner's Answer mailed February 19, 2020 ("Ans."); and (4) the Reply Brief filed February 24, 2020 ("Reply Br.").

[4] Although the Examiner omits claims 59 and 60 from the statement of the rejection, the Examiner clarified these claims are rejected by Sharood in view of Hendrickson (*see* Ans. 13–14). We, therefore, include claims 59 and 60 here to clarify the record, treat these claims as rejected under 35 U.S.C. § 103, and deem the Examiner's error in this regard as harmless.

The Examiner rejected claim 41 under 35 U.S.C. § 103 as unpatentable over Sharood and Mehta (US 2010/0211359 A1; published Aug. 19, 2010). Non-Final Act. 30–31.

The Examiner rejected claims 44–46 under 35 U.S.C. § 103 as unpatentable over Sharood, Hendrickson, and Kiko. Non-Final Act. 31–33.

The Examiner rejected claims 61, 63, and 64 under 35 U.S.C. § 103 as unpatentable over Sharood and Ansari (US 2010/0071053 A1; published Mar. 18, 2010). Non-Final Act. 33–35.

The Examiner rejected claim 62 under 35 U.S.C. § 103 as unpatentable over Sharood, Ansari,[5] and Wong (US 2011/0298301 A1; published Dec. 8, 2011). Non-Final Act. 35–36.

THE ANTICIPATION REJECTION OVER SHAROOD

Regarding independent claim 1, the Examiner finds that Sharood discloses (1) an appliance 130 connected to (2) a retrofit plug 125 which is connected to (3) the main AC electrical supply via pins 603 and 604. Non-Final Act. 3–4. The Examiner further finds that retrofit plug 125 within its housing 600 includes (a) measure and transmit circuitry 620 monitoring and reporting current drawn by the appliance, and (b) Radio Frequency (RF) transceiver or wireless modem for incorporation in a wireless network for communication of the current draw and control messages of the appliance. *See* Non-Final Act. 3–5.

[5] Although the Examiner omits the Ansari reference for claim 62 in the statement of the rejection, the Examiner clarified these claims are rejected as obvious over Sharood in view of Ansari and Wong. *See* Ans. 39–40. We, therefore, include the Ansari reference here in the statement of the rejection, and treat the Examiner's error in this regard as harmless.

Appellant argues that (1) the rejection is vague and unclear; (2) the anticipation rejection is improper by way of picking, choosing and combining the appliance and retrofit plug in Sharood and thus failing to disclose those elements as arranged in the claim; (3) the picking and choosing in the rejection also does not set forth an obvious combination; (4) Sharood teaches away from a combination of the retrofit plug 125 and an appliance 130; and (5) Sharood fails to disclose that the measure and transmit circuitry teaches a current sensor as claimed. *See* Appeal Br. 4–7; Reply Br. 2–3. Appellant argues various other recited limitations summarized below.

ISSUES

Under § 102, has the Examiner erred in rejecting claim 1 by finding with the requisite clarity in the rejection rationale that Sharood discloses:

(1) an appliance and a single enclosure as arranged in claim 1?

(2) a current sensor as recited in claim 1?

(3) the particular limitations recited in dependent claims 6, 9, 10, 32–34, 36, and 54–57?

ANALYSIS

Claims 1–5, 7, and 12–19

On this record, we are not persuaded of error in the Examiner's anticipation rejection of independent claim 1. Contrary to Appellant's contentions that the rejection's copied passages from Sharood fail to set forth how the claimed elements or features are equated to claimed elements (*see* Appeal Br. 4), Sharood's Figure 6d and accompanying description of an

appliance and retrofit plug closely correspond to the features of claim 1. This correspondence is shown in a comparison between Figure 5e of the present application, which Appellant refers to in the Appeal Brief for providing a summary of the claimed subject matter of claim 1 (*see* Appeal Br. 3–4), and Figure 6d of Sharood. Reproduced below are the respective figures.

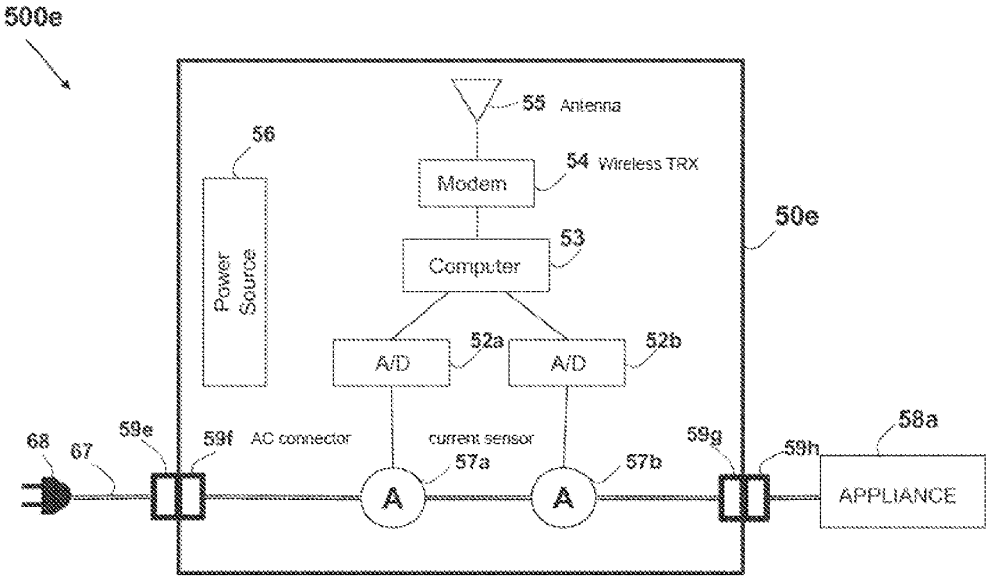


FIG. 5e

Present Application's Appliance 58a and Single Enclosure 50e in Figure 5e

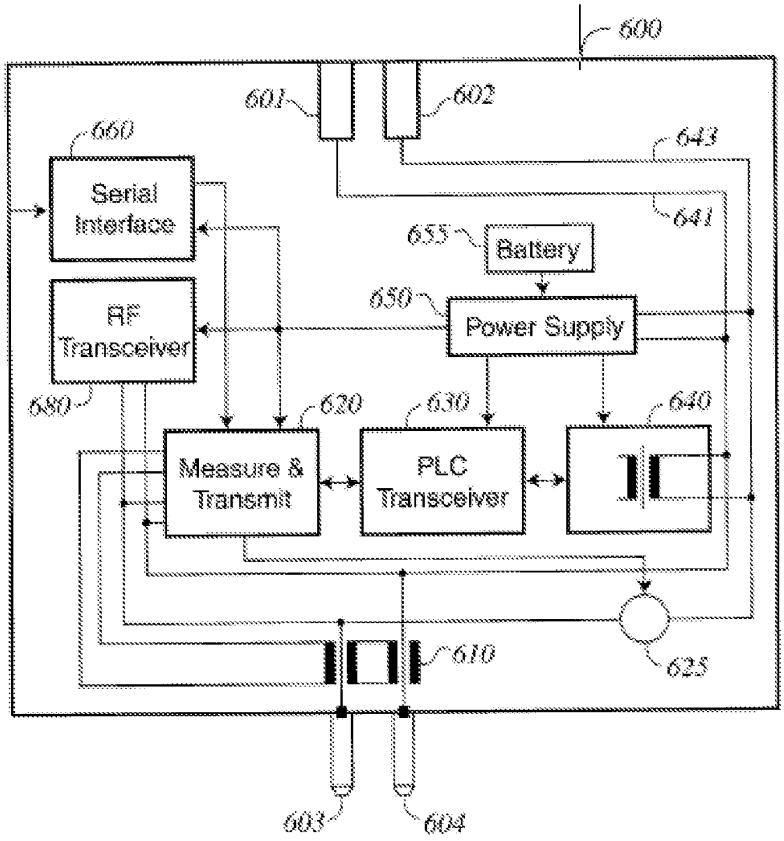


FIG. 6d

Sharood's retrofit plug 600, with slots 601 and 602 for connection to an appliance in Figure 6d

From the above figures, we find no error in Examiner's reliance on Sharood's appliance 130, which connects to slots 601 and 602 of retrofit plug 125 (with outer housing 600 in Figure 6d) which in turn connects to main alternating-current (AC) power supply, as corresponding to the claimed AC powered appliance comprising an AC connector to connect to an AC power source. *See* Non-Final Act. 3–4 (citing Sharood ¶¶ 85–87, 93;

Fig. 6d). Nor do we find error in the Examiner's reliance on Sharood's retrofit plug 125 with outer housing 600 in Figure 6d that is shown to include (1) slots 601 and 602 for connection to the appliance 130, and pins 603 and 604 to supply mains AC power to the appliance (corresponding to the claimed AC connector); (2) RF transceiver 680 to incorporate the retrofit plug in a wireless network for monitoring and control of the appliance (corresponding to the claimed antenna and wireless transceiver, and the appliance being controlled in response to data received from the wireless network); and (3) measure and transmit circuit 620 to measure the current drawn by the attached appliance, and send measured data which is shown as being connected to the RF transceiver 680 (corresponding to the claimed current sensor coupled to the wireless transceiver for transmitting data in response to the measured AC current). *See* Non-Final Act. 3–5 (citing Sharood ¶¶ 85–87, 89, 91, 94, 98; Fig. 6d).

Nor do we find availing Appellant's contentions that the Examiner's correspondence of Sharood's appliance 130 and retrofit plug 125 to the claimed appliance and single enclosure, respectively, amount to "[i]mproper picking and choosing." *See* Appeal Br. 4–5 (emphasis omitted). To be sure, for anticipation, it is not enough that the prior art reference discloses multiple, distinct teachings that the ordinary artisan might somehow combine to achieve the claimed invention. *See In re Arkley*, 455 F.2d 586, 587–88 (CCPA 1972); *Net MoneyIN, Inc. v. VeriSign, Inc.*, 545 F.3d 1359, 1371 (Fed. Cir. 2008)). Rather, to anticipate, the prior art reference must disclose the recited elements arranged as claimed. *See Net MoneyIn*, 545 F.3d at 1369. Appellant's contention of Examiner error, however, is based upon the notion that Sharood lacks a *single* appliance in a *single* enclosure.

See Appeal Br. 4. We do not find these limitations in claim 1, where the appliance is recited, quite broadly, as merely *comprising* the single enclosure, but not being *enclosed* within the single enclosure or *enclosing* the single enclosure. To the contrary, although open-ended, claim 1 requires only that the single enclosure houses "the current sensor, the antenna, and the wireless transceiver. Moreover, Appellant refers to the claimed appliance as corresponding to item 50e *or* 58a in Figure 5e (*see* Appeal Br. 3), thus exemplifying the arrangement *as claimed* featuring the appliance 58a of Figure 5e as separate from the single enclosure 50e.[6] Therefore, because Sharood's appliance 130 is disclosed *within the same embodiment* as being connected to retrofit plug 125 (*see* Sharood ¶¶ 83, 86), we do not find that the Examiner's rejection is improper.

As to Appellant's contentions regarding Sharood's teaching away (*see* Appeal Br. 6–7), we note that "teaching away" arguments are irrelevant to anticipation rejections. *See Leggett & Platt, Inc. v, VUTEk Inc.*, 537 F.3d 1349, 1356 (Fed. Cir. 2008); *see also* Manual of Patent Examining Procedure ("MPEP") § 2131.05 (9th ed. rev. 10.2019 June 2020).

Lastly, Appellant does not persuasively rebut the Examiner's reliance on Sharood's measure and transmit circuitry 620 disclosed at least in paragraph 89 for teaching the claimed current sensor (*see* Appeal Br. 7), particularly since Sharood teaches in that paragraph that the appliance's load

[6] We leave to the Examiner to decide whether the Specification and Figure 5e provides sufficient written description support under § 112 to show possession of any arrangement of the claimed elements *other* than one where the appliance is not part of the single enclosure.

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current is measured, which corresponds to the claimed "measuring an AC current consumed by the appliance."

For the foregoing reasons, Appellant has not persuaded us of error in the Examiner's rejection of representative claim 1. Therefore, we sustain the Examiner's rejection of that claim, and claims 2–5, 7, and 12–19 not argued separately with particularity.

Claim 6

We do not, however, sustain the Examiner's rejection of dependent claim 6 reciting that the appliance comprises a dishwasher, a food blender, a beverage maker, or a coffeemaker.

First, the Examiner's indication that "[t]he claims and the arguments do not further define how the appliances are different from Sharood et al.'s home appliances in terms of consuming power . . . and the claims are just claiming other appliances without specifying their functionality" (*see* Ans. 6) is puzzling given the claim's different limitations as Appellant indicates (*see* Appeal Br. 8).

It is well settled that to anticipate, a prior art reference must not only disclose all recited elements within the four corners of the document, but must also disclose those elements arranged as in the claim. *Net MoneyIN*, 545 F.3d at 1369. "Thus, it is not enough that the prior art reference discloses part of the claimed invention, which an ordinary artisan might supplement to make the whole, or that it includes multiple, distinct teachings that the artisan might somehow combine to achieve the claimed invention." *Id.* at 1371.

Claim 6 recites several examples of home appliances in the alternative; thus for Sharood to *anticipate* claim 6, one of the enumerated appliances must *necessarily* be disclosed. The Examiner cites Sharood's examples of home appliances such as a refrigerator, oven, washer and dryer (*see* Non-Final Act. 6 (citing Sharood ¶¶ 4, 5, 87, 93)), but none of these examples in Sharood is *necessarily* a dishwasher, a food blender, a beverage maker, or a coffeemaker as claimed.

We reach a similar conclusion regarding the additional "coffee pot" disclosure on which the Examiner relies. *See* Ans. 6. Although Sharood's coffee pot is disclosed as being controllable in a wake-up mode of home manager software (*see* Sharood ¶¶ 141–42, 147), the coffee pot in paragraph 147 is not *necessarily* one of the appliances 130 disclosed for use with the retrofit plug (*see* Sharood ¶ 93) on which the Examiner relies in connection with the anticipation rejection of claim 1 from which claim 6 depends.

To the extent that the recited appliances would have been obvious in view of Sharood is not a question before us; nor will we speculate in that regard here in the first instance on appeal. But what we can say is that the Examiner's anticipation rejection of claim 6 is untenable.

We are, therefore, constrained by this record to find that the Examiner erred in rejecting claim 6.

Claims 9 and 10

We also do not sustain the Examiner's rejection of dependent claims 9 and 10, with claim 9 reciting an electrically actuated switch that is a latching or a non-latching type relay, and claim 10 reciting further features of the relay.

Claim 9 depends from claim 7 that recites, in pertinent part, an electrically actuated switch in the appliance's single enclosure. Regarding claim 7, the Examiner finds Sharood's power-switching device included within the retrofit plug 125 corresponds to the claimed electrically actuated switch. *See* Non-Final Act. 6–7 (citing Sharood ¶ 94). Regarding claims 9 and 10, the Examiner then finds Sharood's electrically actuated solenoid magnetic latching mechanism 1020 included within a forced air damper 900 for zoned heating, ventilation and air conditioning (HVAC) control as corresponding to the claimed electrically actuated switch. *See* Non-Final Act. 7 (citing Sharood ¶ 131). Although Sharood suggests using HVAC control alongside a retrofit plug in an automation system (*see* Sharood ¶¶ 74, 131; Fig. 1, illustrating a control module 120 connected to an appliance 130 as part of the same network as HVAC zone controller 133), Sharood does not disclose retrofit plug 125 comprises the electrically actuated solenoid magnetic latching mechanism 1020. Moreover, the antecedent basis provided in claim 7 which is found by the Examiner to be the power-switching device of the retrofit plug is a different component than what Examiner finds for claim 9, namely the mechanism 1020 included within a forced air damper 900. Given these disparate findings from different embodiments, Sharood does not disclose the recited elements arranged as claimed and, therefore, does not anticipate claims 9 and 10. *See Net MoneyIn*, 545 F.3d at 1369. Accordingly, we are persuaded by Appellant's contentions that the Examiner erred in citing portions of Sharood that are set forth in a different embodiment than that which was relied upon for claim 1. *See* Appeal Br. 8–9; Reply Br. 5.

Further, to the extent the Examiner finds anticipation simply because the damper 900 is similar to the retrofit plug (*see* Ans. 6), we find such reasoning problematic. Although the damper 900 *may* be similar to the retrofit plug, and have all of the same features corresponding to the features of claims 1 and 7, that does not mean at least *on this record*, that this is *necessarily* the case—a crucial requirement for inherent anticipation. *See In re Robertson*, 169 F.3d 743, 745 (Fed. Cir. 1999) ("Inherency . . . may not be established by probabilities or possibilities. The mere fact that a certain thing may result from a given set of circumstances is not sufficient.")

Therefore, we are persuaded that the Examiner erred in rejecting claims 9 and 10.

Claims 32–34 and 36

We also do not sustain the Examiner's rejection of dependent claims 32–34 and 36. Claim 32 recites the single enclosure further comprises a first sensor, and the Examiner relies again on components within the damper 900 as anticipating claim 32. *See* Non-Final Act. 10. As noted above, however, the retrofit plug 125 and the damper 900 are disclosed in different embodiments, and notwithstanding any similarities they have, on this record, the Examiner has not shown the damper 900 to have all of the other elements of the retrofit plug, which were relied upon for anticipating claim 1. Given these disparate findings from different embodiments, Sharood does not disclose the recited elements arranged as claimed. *See Net MoneyIn*, 545 F.3d at 1369.

We, therefore, do not sustain the Examiner's rejection of claim 32, and claims 33, 34, and 36 that depend therefrom.

Therefore, we are persuaded that the Examiner erred in rejecting dependent claim 32 and dependent claims 33, 34, and 36 which depend therefrom. Because this issue is dispositive regarding our reversing the Examiner's rejection of these claims, we need not address Appellant's other associated arguments.

Claims 54 and 58

On this record, we sustain the Examiner's rejection of dependent claim 54 reciting, in pertinent part, in the single enclosure, an actuator coupled to the wireless transceiver for affecting a physical phenomenon. Although Appellant contends that the action is not clear as to which element is equated to the recited actuator (*see* Appeal Br. 12–13), the Examiner clarifies that Sharood's power-switching device corresponds to the claimed actuator (*see* Ans. 10 (citing Sharood ¶ 94, disclosing a power-switching device under control of the measure and transmit circuit for enabling remote shutdown of the attached appliance)). The Examiner further finds that Sharood's power-switching device is coupled to the wireless transceiver for being activated or controlled in response to digital data received from the wireless network. *See* Ans. 10–11. We see no error in the Examiner's reliance on Sharood's power-switching device that is controlled by the measure and transmit circuit, which as disclosed above, is connected to the RF transceiver, and thus discloses coupling to the power-switching device. *See* Sharood ¶ 94. Further, Sharood's power-switching device enables remote shutdown of the attached appliance, which given the name of power-switching indicates that the shutdown of the attached appliance is by way of power being shut down to the appliance. *See id.*

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To the extent Appellant contends that claim 54 requires the recited actuator to be within the same enclosure as the claimed appliance, we disagree. *See* Appeal Br. 13; Reply Br. 7. As noted above, claim 1, from which claim 54 depends, does not recite a single appliance in a single enclosure within which the elements of claim 1 are enclosed. Although the appliance is recited as *comprising* the single enclosure, the appliance is not recited as being *enclosed* within the single enclosure or *enclosing* the single enclosure.

Therefore, we are not persuaded that the Examiner erred in rejecting claim 54, and claim 58 not argued separately with particularity.

Claims 55 and 57

We do not sustain the Examiner's rejection of dependent claims 55 and 57, reciting further features of the actuator. *See* Non-Final Act. 12–13.

The Examiner relies upon teachings of the damper 900 as anticipating claims 55 and 57. *See id.* As noted above, however, retrofit plug 125 and damper 900 are disclosed in different embodiments, and notwithstanding any similarities they have, on this record, the Examiner has not shown damper 900 to have all of the other elements of the retrofit plug, which were relied upon for anticipating claim 1. Given these disparate findings from different embodiments, Sharood does not disclose the recited elements arranged as claimed. *See Net MoneyIn*, 545 F.3d at 1369.

We, therefore, do not sustain the Examiner's rejection of claims 55 and 57.

Claim 56

We also do not sustain the Examiner's rejection of dependent claim 56, reciting the actuator to consist of, or comprise, a sounder for converting an electrical energy to sound waves. *See* Non-Final Act. 12–13.

First, the Examiner's indication that "[t]he claims and the arguments do not further define how the actuators are any different without specifying their functionality" (*see* Ans. 12) is puzzling given the claim's different limitations as Appellant indicates (*see* Reply Br. 8).

Nevertheless, as noted above, it is not enough for anticipation that the prior art reference includes multiple distinct teachings that the artisan might somehow combine to achieve the claimed invention. *See Net Moneyln, Inc.*, 545 F.3d at 1371. Accordingly, the Examiner's reliance upon the teachings of a touchpad 152, which is disclosed in connection with a distinct embodiment from the retrofit plug teachings, for anticipating claim 56 is problematic. We fail to see—nor has the Examiner shown—that Sharood's touchpad is within the retrofit plug, which the Examiner relies upon for the disclosed "single enclosure" of claim 54 from which claim 56 depends.

We are, therefore, constrained by this record to find that the Examiner erred in rejecting claim 56.

THE OBVIOUSNESS REJECTION OVER SHAROOD AND LEGASPI

Regarding dependent claim 8[7], although the Examiner does not rely upon Sharood for teaching the electrically actuated switch is normally

[7] Claim 8 recites multiple features in the alternative, thus being amenable to two or more plausible constructions which may present issues of indefiniteness. *See Ex Parte Miyazaki*, Appeal No. 2007-3300 (BPAI Nov.

closed, and has two or more throws with contacts of the switch arranged as a single pole double throw, the Examiner cites Legaspi as teaching these features in concluding that the claim would have been obvious. *See* Non-Final Act. 16.

Appellant argues (1) is it unclear how Sharood is modified to include the claimed features, (2) the rationale to combine Sharood and Legaspi fails to provide a link between the factual findings and the legal conclusion of obviousness, and (3) the rationale is based on a featured benefit already disclosed within Sharood. *See* Appeal Br. 19–20.

Regarding dependent claim 11, although the Examiner does not rely upon Sharood for teaching the electrically actuated switch based on an electrical circuit that comprises an open collector transistor or an open drain transistor, the Examiner cites Legaspi as teaching these features in concluding that the claim would have been obvious. *See* Non-Final Act. 17.

Regarding dependent claims 20 and 21, although the Examiner does not rely upon Sharood for teaching the wireless network is a Wireless Personal Area Network (WPAN), the antenna as a WPAN antenna, the wireless transceiver as a WPAN modem, and the WPAN is according to, based on, or compatible with Bluetooth® standards, the Examiner cites Legaspi as teaching these features, in concluding that the claims would have been obvious. *See* Non-Final Act. 17–18.

Appellant argues that (1) is it unclear how Sharood is modified to include the claimed features, (2) the rationale to combine Sharood and

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19, 2008) (precedential), at 11; *see also* MPEP § 2173.05(b)(II). However, we leave it to the Examiner to determine indefiniteness under 35 U.S.C. § 112, second paragraph.

Legaspi fails to provide a link between the factual findings and the legal conclusion of obviousness, and (3) the rationale is based on a featured benefit already disclosed within Sharood. *See* Appeal Br. 19 and 22–24.

Regarding dependent claims 23 and 24, although the Examiner does not rely upon Sharood as teaching the wireless network is a Wireless Local Area Network (WLAN), the antenna as a WLAN antenna and the wireless transceiver as a WLAN modem, and the WLAN according to, based on, or compatible with, IEEE 802.11, the Examiner cites Legaspi as teaching these features, in concluding that the claims would have been obvious. *See* Non-Final Act. 18–19.

Appellant argues that (1) is it unclear how Sharood is modified to include the claimed features, and (2) the rationale to combine Sharood and Legaspi fails to provide a link between the factual findings and the legal conclusion of obviousness. *See* Appeal Br. 19, 24–25.

Regarding dependent claim 51, although the Examiner does not rely upon Sharood as teaching comprising in the single enclosure a light source emitting visible light and coupled to the AC connector, for indication in response to digital data received from the wireless network, the Examiner cites Legaspi as teaching these features in concluding that the claim would have been obvious. *See* Non-Final Act. 19–20.

Appellant argues that (1) is it unclear how Sharood is modified to include the claimed features, and (2) there is an improper rationale for

combination of the Sharood and Legaspi references. *See* Appeal Br. 19, 25–26.[8]

Moreover, in addition to the arguments above specific to certain dependent claims, Appellant argues generally that Sharood and Legaspi are not analogous. *See* Appeal Br. 17–18.

ISSUES

Under § 103, is the Examiner's proposed combination of the cited references supported by articulated reasoning with some rational underpinning to justify the Examiner's obviousness conclusion in the rejection of claims 8, 11, 20, 21, 23, 24, and 51–53?

ANALYSIS

We begin by noting that the Examiner's reliance on Legaspi's particular teachings is undisputed. Rather, as noted above, this dispute turns solely on the combinability of Sharood and Legaspi. Therefore, we confine our discussion to this issue. In this section, we address Appellant's general arguments towards the combination of Sharood and Legaspi (*see* Appeal Br. 17–19), and under the claim headings below, we respond to Appellant's specific arguments directed towards particular claims (*see* Appeal Br. 19–26).

Turning first then to Appellant's contentions that Sharood and Legaspi are non-analogous art (Appeal Br. 17–18), we note that prior art is

[8] Although Appellant does not provide a heading in the Appeal Brief for their arguments specifically against claim 51, we understand "Argument #22" to pertain to claim 51, and treat the argument as such.

analogous if it is (1) from the same field of endeavor regardless of the problem addressed, or (2) reasonably pertinent to the particular problem with which the inventor is involved. *See In re Bigio*, 381 F.3d 1320, 1325 (Fed. Cir. 2004). That is, contrary to what Appellant seemingly suggests (*see* Appeal Br. 18; Reply Br. 9), the analogous art test does not ask whether the prior art references are analogous to *each other*, but rather asks whether the references are analogous to the claimed subject matter. *See id.*; *see also In re Kahn*, 441 F.3d 977, 986–87 (Fed. Cir. 2006).

On this record then, we see no error in the Examiner's proposed combination. As the Examiner explains, both Sharood and Legaspi are from the same field of endeavor as Appellant's invention, which is environment control. *See* Ans. 14. Moreover, both Sharood and Legaspi are at least reasonably pertinent to Appellant's problem of optimizing environment control networks by using sensors communicating over wireless networks. *See* Spec. 15, 75. Sharood pertains to a home automation system using a radio frequency network to monitor and optimize home utilities (*see* Sharood ¶¶ 54–55), and Legaspi pertains to appliance energy control over a wireless network using detectors to prevent appliance damage (*see* Legaspi ¶¶ 9–11, 61).

Further, to the extent Appellant contends that the Examiner's obviousness rationale is inconsistent with the patentably-distinct inventions articulated in a restriction requirement made during prosecution of the present application (*see* Appeal Br. 18–19), such a contention is unavailing. The propriety of the Examiner's restriction requirement that was made during prosecution is a petitionable matter that is not before us, as are objections regarding procedural inconsistences associated with that

requirement. *See* MPEP § 706.01 ("[T]he Board will not hear or decide issues pertaining to objections and formal matters which are not properly before the Board."); *see also* MPEP §§ 1201 ("The Board will not ordinarily hear a question that should be decided by the Director on petition . . . ."), 1002.02(c) (requiring that Technology Center Directors decide petitions from an Examiner's final decision requiring restriction in patent applications). Therefore, to the extent there are inconsistencies between the Examiner's restriction requirement and obviousness rejection, the Examiner's restriction requirement is not before us, nor are we bound by it. Rather, only the Examiner's obviousness rejection is before us—a rejection that is (1) articulated in the Non-Final Office Action from which this appeal was taken, and (2) based solely on the cited prior art.

Appellant's contentions regarding the rejections citing the combination of Sharood and Legaspi as being improper for not being clear how Sharood is modified by Legaspi to arrive at the claims are also not persuasive. To be sure, "[r]ejections on obviousness grounds cannot be sustained by mere conclusory statements; instead, there must be some articulated reasoning with some rational underpinning to support the legal conclusion of obviousness." *KSR Int'l Co. v. Teleflex Inc.*, 550 U.S. 398, 418 (2007) (quoting *Kahn*, 441 F.3d at 988). On this record, however, we do not find error in the Examiner's rejections relying upon the combination of Sharood and Legaspi. The Examiner articulates that Sharood discloses elements from claims 1 and 7, which are further limited by claims 8, 11, 20, 21, 23, 24, and 51–53, depending therefrom Moreover, the Examiner relies on Legaspi for its teachings for these further limitations such as (1) the electrically actuated switch (*see* Non-Final Act. 16–17), (2) the wireless

network (*see* Non-Final Act. 17–19) and (3) the single enclosure (*see* Non-Final Act. 19–21).

To the extent Appellant contends that the articulated reasoning required any further details regarding how and where elements were incorporated into Sharood and whether they are substitutes or additional components (*see* Appeal Br. 19), we are not persuaded. The test for obviousness is not whether a secondary reference's features can be bodily incorporated into the structure of the primary reference. *In re Keller*, 642 F.2d 413, 425 (CCPA 1981). Rather, the test is what the combined teachings of the references would have suggested to those of ordinary skill in the art. *Id.* Accordingly, on this record, we do not find that the Examiner's obviousness conclusion is erroneous.

Nor are we persuaded by Appellant's contentions that insufficient answers in the Examiner's Answer to arguments raised in the Appeal Brief affect the grounds of rejection upon which this appeal is taken, such that sustaining the Examiner's rejection would constitute a new ground of rejection. *See* Reply Br. 9. Here, the Examiner sets forth in the Examiner's Answer that the rejection is proper and offers additional explanation as to the combination. *See* Ans. 14–15.

To the extent Appellant contends that the Examiner's explanation in the Answer constitutes an undesignated new ground of rejection in the Answer (*see* Reply Br. 9), that is a petitionable matter that is not before us. *See* 37 C.F.R. § 41.40(a); *see also* MPEP § 1207.03(b). Where, as here, Appellant did not file such a petition, Appellant's contentions regarding any alleged new ground of rejection in the Answer are waived. *See* 37 C.F.R. § 41.40(a).

Given this waiver, Appellant's contentions that our sustaining the Examiner's rejection in light of the Examiner's Answer should be considered a new ground (Reply Br. 9) are unpersuasive.

Claim 8

On this record, we are not persuaded of error in the Examiner's rationale for combining Sharood with Legaspi despite Appellant's arguments to the contrary. *See* Appeal Br. 20–21. A key aspect of the Examiner's rationale relies on the functionality of Sharood's monitoring system that receives and provides power to an appliance. *See* Non-Final Act. 16; Ans. 15. Given this functionality, the Examiner concludes that it would have been obvious to enhance a power monitoring system that provides power to an appliance with methods for automatically disabling appliances upon the occurrence of a safety event by using a switch to cut off power to the appliance. *See* Non-Final Act. 16; Ans. 15.

We see no error in these findings and conclusions. Such an enhancement to add greater safety to an AC power based system by using a switch uses prior art elements predictably according to their established functions—an obvious improvement. *See KSR*, 550 U.S. at 417. To the extent Appellant suggests that a motivation to combine Sharood with Legaspi cannot be found based on the switching functionality generally simply because the combination includes Legaspi's Single-Pole-Double-Throw (SPDT) relay (*see* Appeal Br. 20), we are not persuaded. The same advantage of adding greater safety to electrical circuits by having a switching function generally is no less a predictable result simply because the switching function is from Legaspi's SPDT relay.

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We reach this conclusion even if Sharood already discloses features of remote shut down of an attached appliance, as Appellant contends (*see* Appeal Br. 20) because Sharood does not disclose performing such a shutdown with an *SPDT relay* as Legaspi provides. Nevertheless, Appellant's authority for the contention that reliance on "redundant" advantages from a cited art combination would preclude a conclusion of obviousness (*see* Appeal Br. 20–21) comes from non-precedential Board decisions *Ex parte Saiki*, Appeal No. 2000-0373 (BPAI Jan. 17, 2002); *Ex parte Burak*, Appeal No. 2004-0823 (BPAI Dec. 8, 2004); *Ex parte Anttila & Jung*, Appeal No. 2010-006328 (BPAI Sept. 27, 2012); *Ex parte Kastelewicz*, Appeal No. 2008-004808 (BPAI June 9, 2009); and *Ex parte Levine*, Appeal No. 2010-001240 (BPAI Sept. 25, 2012). Not only are the facts in these cases different from those at issue here, but as non-precedential decisions, *Saiki*, *Burak*, *Anttila & Jung*, *Kastelewicz*, and *Levine* are not binding on this panel in any event. *See* PTAB Standard Operating Procedure 2 (Rev. 10) § I(B), https://www.uspto.gov/sites/default/files/documents/SOP2%20R10%20FINAL.pdf. Nor have these decisions been designated as informative. *See* Alphabetical Listing of Informative Decisions, USPTO, https://www.uspto.gov/patents/ptab/decisions-and-opinions/informative-opinions-0.

Nor are we persuaded by Appellant's contentions that insufficient answers in the Examiner's Answer to arguments raised in the Appeal Brief affect the grounds of rejection upon which this appeal is taken, such that sustaining the Examiner's rejection would ostensibly constitute a new ground of rejection. *See* Reply Br. 9–10. Here, the Examiner sets forth in

the Examiner's Answer that the rejection is proper and offers additional explanation as to the combination. *See* Ans. 15–16.

To the extent Appellant contends that the Examiner's explanation constitutes an undesignated new ground of rejection in the Answer (*see* Reply Br. 9–10), that is a petitionable matter that is not before us. *See* 37 C.F.R. § 41.40(a); *see also* MPEP § 1207.03(b). Where, as here, Appellant did not file such a petition, Appellant's contentions regarding any alleged new ground of rejection in the Answer are waived. *See* 37 C.F.R. § 41.40(a).

Given this waiver, Appellant's contentions that our sustaining the Examiner's rejection in light of the Examiner's Answer should be considered a new ground (Reply Br. 9–10) are unpersuasive.

Therefore, we are not persuaded that the Examiner erred in rejecting claim 8.

Claim 11

We also sustain the Examiner's rejection of claim 11 reciting that 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.

We are not persuaded of error in the Examiner's rationale for combining Sharood with Legaspi despite Appellant's arguments to the contrary. *See* Appeal Br. 21. To the extent Appellant contends that obviousness cannot be concluded given the combination of Sharood and Legaspi because the same rationale is used as motivation to combine for two different claims, we disagree. Notwithstanding the differences in recited

claim features, the same advantage may apply nonetheless. Indeed, Legaspi's transistor would also provide the benefit of greater safety to Sharood's power monitoring system. *See* Non-Final Act. 16–17.

We see no error in these findings and conclusions. Such an enhancement as to add greater safety to an AC power based system by using a transistor would be using prior art elements predictably according to their established functions—an obvious improvement. *See KSR*, 550 U.S. at 417.

Nor are we persuaded by Appellant's contentions that insufficient answers in the Examiner's Answer to arguments raised in the Appeal Brief affect the grounds of rejection upon which this appeal is taken, such that sustaining the Examiner's rejection would ostensibly constitute a new ground of rejection. *See* Reply Br. 10. Here, the Examiner sets forth in the Examiner's Answer that the rejection is proper and offers additional explanation as to the combination. *See* Ans. 16.

To the extent Appellant contends that the Examiner's explanation constitutes an undesignated new ground of rejection in the Answer (*see* Reply Br. 10), that is a petitionable matter that is not before us. *See* 37 C.F.R. § 41.40(a); *see also* MPEP § 1207.03(b). Where, as here, Appellant did not file such a petition, Appellant's contentions regarding any alleged new ground of rejection in the Answer are waived. *See* 37 C.F.R. § 41.40(a).

Given this waiver, Appellant's contentions that our sustaining the Examiner's rejection in light of the Examiner's Answer should be considered a new ground (Reply Br. 10) are unpersuasive.

Therefore, we are not persuaded that the Examiner erred in rejecting claim 11.

Claim 20

We also sustain the Examiner's rejection of claim 20 reciting the wireless network is a Wireless Personal Area Network (WPAN), the antenna is a WPAN antenna, and the wireless transceiver is a WPAN modem.

On this record, we are not persuaded of error in the Examiner's rationale for combining Sharood with Legaspi.

Appellant's contentions regarding the rejection citing the combination of Sharood and Legaspi as being improper for not being clear how Sharood is modified by Legaspi to arrive at the claims (*see* Appeal Br. 22) are also not persuasive. As previously noted, "obviousness grounds cannot be sustained by mere conclusory statements; instead, there must be some articulated reasoning with some rational underpinning to support the legal conclusion of obviousness." *See KSR*, 550 U.S. at 418. On this record, however, we do not find error in the Examiner's rejections relying upon the combination of Sharood and Legaspi. The Examiner articulates that Sharood discloses elements from claim 1 that are further limited by dependent claims 20, 21, 23, and 24. *See* Non-Final Act. 17–19. Moreover, the Examiner relies on Legaspi for its teachings for these further limitations of the wireless network. *See id.*

To the extent Appellant contends that the articulated reasoning requires further details regarding how and where elements are incorporated into Sharood, and whether they are substitutes or additional components (*see* Appeal Br. 22), we disagree. The test for obviousness is not whether a secondary reference's features can be bodily incorporated into the structure of the primary reference. *In re Keller*, 642 F.2d at 425. Rather, the test is

what the combined teachings of the references would have suggested to those of ordinary skill in the art. *Id.*

Nor are we persuaded of error in the Examiner's rationale for combining Sharood with Legaspi despite Appellant's arguments to the contrary. *See* Appeal Br. 22–23. A key aspect of the Examiner's rationale relies on the functionality of Sharood's monitoring system that is able to output data from an appliance connected to a power supply and a wireless transceiver. *See* Non-Final Act. 17; Ans. 16–17. Given this functionality, the Examiner concludes that it would have been obvious to enhance a monitoring system that provides power and wireless networking to an appliance with methods for a particular type of wired and wireless signals transmission including voice and/or data signals or messages. *See* Non-Final Act. 17; Ans. 17.

We see no error in these findings and conclusions. Such an enhancement to add different types of wireless signal communication capability having expanded communication forms including voice as well as data signals or messages uses prior art elements predictably according to their established functions—an obvious improvement. *See KSR*, 550 U.S. at 417.

We reach this conclusion even if Sharood already discloses features of wireless communications as Appellant suggests (*see* Appeal Br. 23) because Sharood does not disclose performing wireless communications using the particular wireless and wired communication methods as Legaspi provides. Nevertheless, Appellant's authority for the contention that reliance on "redundant" advantages from a cited art combination would preclude a conclusion of obviousness (*see* Appeal Br. 20–21), comes from non-

precedential Board decisions *Ex parte Saiki*, Appeal No. 2000-0373 (BPAI Jan. 17, 2002); *Ex parte Burak*, Appeal No. 2004-0823 (BPAI Dec. 8, 2004); *Ex parte Anttila & Jung*, Appeal No. 2010-006328 (BPAI Sept. 27, 2012); *Ex parte Kastelewicz*, Appeal No. 2008-004808 (BPAI June 9, 2009); and *Ex parte Levine*, Appeal No. 2010-001240 (BPAI Sept. 25, 2012). Not only are the facts in these cases different from those at issue here, as non-precedential decisions, *Saiki*, *Burak*, *Anttila & Jung*, *Kastelewicz*, and *Levine* are not binding on this panel in any event. *See* PTAB Standard Operating Procedure 2 (Rev. 10) § I(B), https://www.uspto.gov/sites/default/files/documents/ SOP2%20R10%20FINAL.pdf. Nor have these cases been designated as informative. *See* Alphabetical Listing of Informative Decisions, USPTO, https://www.uspto.gov/patents/ptab/decisions-and-opinions/informative-opinions-0.

Nor are we persuaded by Appellant's contentions that insufficient answers in the Examiner's Answer to arguments raised in the Appeal Brief affect the grounds of rejection upon which this Appeal is taken, such that sustaining the Examiner's rejection would ostensibly constitute a new ground of rejection. *See* Reply Br. 10–11. Here, the Examiner sets forth in the Examiner's Answer that the rejection is proper and offers additional explanation as to the combination. *See* Ans. 16–18. To the extent Appellant contends that the Examiner's explanation constitutes an undesignated new ground of rejection in the Answer (*see* Reply Br. 10–11), that is a petitionable matter that is not before us. *See* 37 C.F.R. § 41.40(a); *see also* MPEP § 1207.03(b). Where, as here, Appellant did not file such a petition, Appellant's contentions regarding any alleged new ground of rejection in the Answer are waived. *See* 37 C.F.R. § 41.40(a).

Given this waiver, Appellant's contentions that our sustaining the Examiner's rejection in light of the Examiner's Answer should be considered a new ground (Reply Br. 10–11) are unpersuasive. Therefore, we are not persuaded that the Examiner erred in rejecting claim 20.

Claim 21

We also sustain the Examiner's rejection of claim 21 reciting the WPAN is according to, based on, or compatible with, Bluetooth® or Institute of Electrical and Electronics Engineers (IEEE) 802.15.1-2005 standards.

On this record, we are unpersuaded of error in the Examiner's rationale for combining Sharood with Legaspi despite Appellant's arguments to the contrary. *See* Appeal Br. 24. To the extent Appellant contends that obviousness cannot be concluded given the combination of Sharood and Legaspi because the same rationale is used as motivation to combine for two different claims, we disagree. Notwithstanding the differences in recited claim features, the same advantage may apply nonetheless. Indeed, Legaspi's Bluetooth® communication method would also provide the benefit of expanded communication forms having voice as well as data signals or messages to Sharood's monitoring system. *See* Non-Final Act. 17–18.

We see no error in these findings and conclusions. Such an enhancement to add different types of wireless signal communication capability having expanded communication forms including voice as well as data signals or messages, would be using prior art elements predictably according to their established functions—an obvious improvement. *See KSR*, 550 U.S. at 417.

Nor are we persuaded by Appellant's contentions that insufficient answers in the Examiner's Answer to arguments raised in the Appeal Brief affect the grounds of rejection upon which this Appeal is taken, such that sustaining the Examiner's rejection would constitute a new ground of rejection. *See* Reply Br. 11. Here, the Examiner sets forth in the Examiner's Answer that the rejection is proper and offers additional explanation as to the combination. *See* Ans. 18.

To the extent Appellant contends that the Examiner's explanation constitutes an undesignated new ground of rejection in the Answer (*see* Reply Br. 11), that is a petitionable matter that is not before us. *See* 37 C.F.R. § 41.40(a); *see also* MPEP § 1207.03(b). Where, as here, Appellant did not file such a petition, Appellant's contentions regarding any alleged new ground of rejection in the Answer are waived. *See* 37 C.F.R. § 41.40(a).

Given this waiver, Appellant's contentions that our sustaining the Examiner's rejection in light of the Examiner's Answer should be considered a new ground (Reply Br. 11) are unpersuasive. Therefore, we are not persuaded that the Examiner erred in rejecting claim 21.

Claim 23

We also sustain the Examiner's rejection of claim 23 reciting the wireless network is a Wireless Local Area Network (WLAN), the antenna is a WLAN antenna, and the wireless transceiver is a WLAN modem.

On this record, we are unpersuaded of error in the Examiner's rationale for combining Sharood with Legaspi despite Appellant's arguments to the contrary. *See* Appeal Br. 24–25. To the extent Appellant

contends that obviousness cannot be concluded based on the combination of Sharood and Legaspi because the same rationale is used as motivation to combine for two different claims, we disagree. Notwithstanding the differences in recited claim features, the same advantage may apply nonetheless. Indeed, Legaspi's wired or wireless communication methods would also provide the benefit of expanded communication forms having voice as well as data signals or messages to Sharood's monitoring system. *See* Non-Final Act. 18.

We see no error in these findings and conclusions. Such an enhancement to add different types of wireless signal communication capability having expanded communication forms including voice as well as data signals or messages, would be using prior art elements predictably according to their established functions—an obvious improvement. *See KSR*, 550 U.S. at 417.

Nor are we persuaded by Appellant's contentions that insufficient answers in the Examiner's Answer to arguments raised in the Appeal Brief affect the grounds of rejection upon which this Appeal is taken, such that sustaining the Examiner's rejection would ostensibly constitute a new ground of rejection. *See* Reply Br. 11. Here, the Examiner sets forth in the Examiner's Answer that the rejection is proper and offers additional explanation as to the combination. *See* Ans. 18–19.

To the extent Appellant contends that the Examiner's explanation constitutes an undesignated new ground of rejection in the Answer (*see* Reply Br. 11), that is a petitionable matter that is not before us. *See* 37 C.F.R. § 41.40(a); *see also* MPEP § 1207.03(b). Where, as here, Appellant did not file such a petition, Appellant's contentions regarding any

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alleged new ground of rejection in the Answer are waived. *See* 37 C.F.R. § 41.40(a).

Given this waiver, Appellant's contentions that our sustaining the Examiner's rejection in light of the Examiner's Answer should be considered a new ground (Reply Br. 11) are unpersuasive.

Therefore, we are not persuaded that the Examiner erred in rejecting claim 23.

Claim 24

We also sustain the Examiner's rejection of claim 24 reciting 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.

On this record, we are unpersuaded of error in the Examiner's rationale for combining Sharood with Legaspi despite Appellant's arguments to the contrary. *See* Appeal Br. 25. To the extent Appellant contends that obviousness cannot be concluded based on the combination of Sharood and Legaspi because the same rationale is used as motivation to combine for two different claims, we disagree. Notwithstanding the differences in recited claim features, the same advantage may apply nonetheless. Indeed, Legaspi's wired or wireless communication methods including IEEE 802.11 communication methods would also provide the benefit of expanded communication forms having voice as well as data signals or messages to Sharood's monitoring system. *See* Non-Final Act. 19.

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We see no error in these findings and conclusions. Such an enhancement as to add different types of wireless signal communication capability having expanded communication forms including voice as well as data signals or messages, would be using prior art elements predictably according to their established functions—an obvious improvement. *See KSR*, 550 U.S. at 417.

Nor are we persuaded by Appellant's contentions that insufficient answers in the Examiner's Answer to arguments raised in the Appeal Brief affect the grounds of rejection upon which this Appeal is taken, such that sustaining the Examiner's rejection would ostensibly constitute a new ground of rejection. *See* Reply Br. 12. Here, the Examiner sets forth in the Examiner's Answer that the rejection is proper and offers additional explanation as to the combination. *See* Ans. 19.

To the extent Appellant contends that the Examiner's explanation constitutes an undesignated new ground of rejection in the Answer (*see* Reply Br. 12), that is a petitionable matter that is not before us. *See* 37 C.F.R. § 41.40(a); *see also* MPEP § 1207.03(b). Where, as here, Appellant did not file such a petition, Appellant's contentions regarding any alleged new ground of rejection in the Answer are waived. *See* 37 C.F.R. § 41.40(a).

Given this waiver, Appellant's contentions that our sustaining the Examiner's rejection in light of the Examiner's Answer should be considered a new ground (Reply Br. 12) are unpersuasive.

Therefore, we are not persuaded that the Examiner erred in rejecting claim 24.[9]

Claims 51–53

We also sustain the Examiner's rejection of claim 51 that recites, in pertinent part, a light source in the single enclosure that emits visible or non-visible light for illumination or indication, where the light source is coupled to the AC connector and wireless transceiver.

On this record, we are unpersuaded of error in the Examiner's rationale for combining Sharood with Legaspi despite Appellant's arguments to the contrary.[10] *See* Appeal Br. 25–26. A key aspect of the Examiner's rationale relies on the functionality of Sharood's monitoring system that is able to output data from an appliance connected to a power supply. *See* Non-Final Act. 19–20; Ans. 19–20. Given this functionality, the Examiner concludes that it would have been obvious to enhance a monitoring system that provides power and wireless networking to an appliance with methods for implementing detectors that can emit a light-based signal upon occurrence of an event. *See* Non-Final Act. 19–20; Ans. 19–20.

[9] Although Appellant's "Argument #23" is listed under the heading for claim 24 on page 12 of the Reply Brief, the argument is not germane to the rejection of claim 24 that is based on the combination of Sharood and Legaspi—not Sharood and Rada as articulated in the Reply Brief.
[10] Although Appellant's "Argument #22" does not disclose for which claim the arguments are intended, as best understood, the arguments are directed to claim 51.

We see no error in these findings and conclusions. Such an enhancement to add additional event signalling capability in the form of emitting a light signal for visually indicating a status uses prior art elements predictably according to their established functions—an obvious improvement. *See KSR*, 550 U.S. at 417.

For the foregoing reasons, Appellant has not persuaded us of error in the Examiner's rejection of claim 51. Therefore, we sustain the Examiner's rejection of that claim, and claims 52 and 53 which depend from claim 51, and are not argued separately with particularity.

THE OBVIOUSNESS REJECTION OVER SHAROOD, LEGASPI, AND RADA

Regarding dependent claim 22, although the Examiner does not rely upon Sharood and Legaspi for teaching the WPAN that is according to, based on, or compatible with Zigbee®, IEEE 802.15.4-2003 or Z-Wave® standards, the Examiner cites Rada as teaching these features in concluding that the claim would have been obvious. Non-Final Act. 21.

Appellant argues that (1) there is an improper rationale for combination of the Sharood and Rada references, and (2) the rationale is based on a featured benefit already disclosed within Sharood. *See* Appeal Br. 27–28.

Regarding dependent claim 29, although the Examiner does not rely upon Sharood and Legaspi for teaching the wireless network is a WiMAX® network according to, based on or compatible with IEEE 802.16-2009, the antenna is a WiMAX® antenna, and the wireless transceiver is a WiMAX®

modem, the Examiner cites Rada as teaching these features in concluding that the claim would have been obvious. Non-Final Act. 22.

Appellant argues (1) there is an improper rationale for combination of the Sharood and Rada references, and (2) the rationale includes references to different technology than what is claimed and thus is a conclusory statement insufficient to support obviousness.[11] *See* Appeal Br. 29–30.

Moreover, in addition to the arguments above specific to certain dependent claims, Appellant argues generally that Sharood and Legaspi are not analogous. *See* Appeal Br. 26–27.

ISSUE

Under § 103, is the Examiner's proposed combination of the cited references supported by articulated reasoning with some rational underpinning to justify the Examiner's obviousness conclusion in the rejection of claims 22 and 29?

ANALYSIS

We begin by noting that the Examiner's reliance on Rada for its particular teachings is undisputed. Rather, as noted above, this dispute turns solely on the Examiner's combination of Sharood, Legaspi, and Rada. In this section, we address Appellant's general arguments towards the combination of Sharood and Legaspi (*see* Appeal Br. 26–27), and under the

[11] Although Appellant lists "Argument #25" as pertaining to claim 24, we understand this to be a typographical error, and treat these arguments as being directed towards claim 29.

claim headings below, we respond to Appellant's specific arguments directed towards particular claims (*see* Appeal Br. 27–30).

Turning first then to Appellant's contentions that Sharood and Legaspi are non-analogous art (Appeal Br. 26–27), as previously noted, prior art is analogous if it is (1) from the same field of endeavor regardless of the problem addressed, or (2) reasonably pertinent to the particular problem with which the inventor is involved. *See Bigio*, 381 F.3d at 1325. That is, contrary to what Appellant seems to suggest (*see* Appeal Br. 26; Reply Br. 12), the analogous art test does not ask whether the prior art references are analogous to *each other*, but rather asks whether the references are analogous to the claimed subject matter. *See id.*; *see also In re Kahn*, 441 F.3d 977, 986–87 (Fed. Cir. 2006).

On this record then, we see no error in the Examiner's proposed combination. As explained by the Examiner, both Sharood and Legaspi are of the same field of endeavor as Appellant's invention, which is environment control. *See* Ans. 20. Moreover, both Sharood and Legaspi are at least reasonably pertinent to Appellant's problem of optimizing environment control networks by use of sensors communicating over wireless networks. *See* Spec. 15, 75. Sharood pertains to a home automation system using a radio frequency network to monitor and optimize home utilities (*see* Sharood ¶¶ 54–55), and Legaspi pertains to appliance energy control over a wireless network using detectors to prevent appliance damage (*see* Legaspi ¶¶ 9–11, 61).

Moreover, Appellant's arguments regarding non-analogous art in the Appeal Brief are directed towards only Sharood and Legaspi, and make no reference to Rada. *See* Appeal Br. 26–27. Therefore, we find Appellant's

further arguments first disclosed in the Reply Brief that the Examiner's Answer failed to address the analogousness of Sharood and Rada (*see* Reply Br. 12), unavailing. To the extent Appellant argues that Rada is non-analogous art, we note that this argument was made for the first time in the Reply Brief, and is therefore waived as untimely. *See* 37 C.F.R. § 41.41(b)(2); *see also* 37 C.F.R. § 41.37(c)(iv)("any arguments or authorities not included in the appeal brief will be refused consideration by the Board for purposes of the present appeal"). Nor has good cause been shown to raise these new arguments in the first instance in the Reply Brief.

Claim 22

We sustain the Examiner's rejection of claim 22 reciting the WPAN is according to, based on, or compatible with Zigbee®, IEEE 802.15.4-2003 or Z-Wave® standards.

On this record, we are not persuaded of error in the Examiner's rationale for combining Sharood with Legaspi despite Appellant's arguments to the contrary. *See* Appeal Br. 27–28. A key aspect of the Examiner's rationale relies on the functionality of Sharood's monitoring system that is able to output data from an appliance connected to a wireless transceiver. *See* Non-Final Act. 21; Ans. 20–21. Given this functionality, the Examiner concludes that it would have been obvious to enhance a monitoring system that provides power and wireless networking to an appliance with methods for a particular type of wireless signals transmission that provides for long battery life and also accessing data generated by a monitoring device's messages. *See* Non-Final Act. 21; Ans. 21.

We see no error in these findings and conclusions. Such an enhancement as to add different types of wireless signal communication capability providing more efficient energy usage for longer battery life uses prior art elements predictably according to their established functions—an obvious improvement. *See KSR*, 550 U.S. at 417.

We reach this conclusion even if Sharood already discloses features of wireless communications, as Appellant suggests (*see* Appeal Br. 28), because Sharood does not disclose performing wireless communications using the particular wireless and wired communication methods as Rada provides. Nevertheless, as discussed above, Appellant's authority for the contention that reliance on "redundant" advantages from a cited art combination would preclude a conclusion of obviousness (*see* Appeal Br. 28), comes from non-precedential Board decisions. Not only are the facts in these cases different from those at issue here, as non-precedential decisions, *Saiki*, *Burak*, *Anttila & Jung*, *Kastelewicz*, and *Levine* are not binding on this panel in any event. *See* PTAB Standard Operating Procedure 2 (Rev. 10) § I(B), https://www.uspto.gov/sites/default/files/documents/SOP2%20R10%20FINAL.pdf. Nor have these cases been designated as informative. *See* Alphabetical Listing of Informative Decisions, USPTO, https://www.uspto.gov/patents/ptab/decisions-and-opinions/informative-opinions-0.

Nor are we persuaded by Appellant's contentions that insufficient answers in the Examiner's Answer to arguments raised in the Appeal Brief affect the grounds of rejection upon which this appeal is taken, such that sustaining the Examiner's rejection would ostensibly constitute a new ground of rejection. *See* Reply Br. 12–13. Here, the Examiner sets forth in

the Examiner's Answer that the rejection is proper and offers additional explanation as to the combination. *See* Ans. 20–22.

To the extent Appellant contends that the Examiner's explanation constitutes an undesignated new ground of rejection in the Answer (*see* Reply Br. 12), that is a petitionable matter that is not before us. *See* 37 C.F.R. § 41.40(a); *see also* MPEP § 1207.03(b). Where, as here, Appellant did not file such a petition, Appellant's contentions regarding any alleged new ground of rejection in the Answer are waived. *See* 37 C.F.R. § 41.40(a).

Given this waiver, Appellant's contentions that our sustaining the Examiner's rejection in light of the Examiner's Answer should be considered a new ground (Reply Br. 12) are unpersuasive. Therefore, we are not persuaded that the Examiner erred in rejecting claim 22.

Claim 29

Nor are we persuaded of error in the Examiner's rationale for combining Sharood with Rada despite Appellant's arguments to the contrary. *See* Appeal Br. 29. To the extent Appellant contends that obviousness cannot be concluded based on the combination of Sharood and Rada because the same rationale is used as motivation to combine for two different claims, we disagree. Notwithstanding the differences in recited claim features, the same advantage may apply nonetheless. Indeed, Rada's message forwarding over 3G and WiMax® would also provide the benefit of accessing data generated by a monitoring device's messages to Sharood's monitoring system. *See* Non-Final Act. 22.

We see no error in these findings and conclusions. Such an enhancement as to add different types of wireless signal communication capability, would be using prior art elements predictably according to their established functions—an obvious improvement. *See KSR*, 550 U.S. at 417.

To the extent Appellant argues that the Examiner's rationale to combine Sharood with Rada is limited by its reference to IEEE 802.15.4 based communication protocols (*see* Appeal Br. 30), we disagree. The Examiner's rationale also includes that energy monitoring devices are communicated and forwarded over other network types such as 3G and WiMax® to enhance accessing monitoring data for real-time status checking. *See* Non-Final Act. 22; Ans. 22–23. Appellant has not persuasively rebutted these additional portions of the Examiner's rationale to combine, and thus, we are not persuaded that the rationale provided is conclusory or irrelevant to the claim.

Nor are we persuaded by Appellant's contentions that insufficient answers in the Examiner's Answer to arguments raised in the Appeal Brief affect the grounds of rejection upon which this appeal is taken, such that sustaining the Examiner's rejection would ostensibly constitute a new ground of rejection. *See* Reply Br. 13. Here, the Examiner sets forth in the Examiner's Answer that the rejection is proper and offers additional explanation as to the combination. *See* Ans. 22–23.

To the extent Appellant contends that the Examiner's explanation constitutes an undesignated new ground of rejection in the Answer (*see* Reply Br. 13), that is a petitionable matter that is not before us. *See* 37 C.F.R. § 41.40(a); *see also* MPEP § 1207.03(b). Where, as here, Appellant did not file such a petition, Appellant's contentions regarding any

alleged new ground of rejection in the Answer are waived. *See* 37 C.F.R. § 41.40(a).

Given this waiver, Appellant's contentions that our sustaining the Examiner's rejection in light of the Examiner's Answer should be considered a new ground (Reply Br. 13) are unpersuasive.

Therefore, we are not persuaded that the Examiner erred in rejecting claim 29.

THE OBVIOUSNESS REJECTION OVER SHAROOD AND KIKO

Regarding dependent claims 25–28, 30, and 31, although the Examiner does not rely upon Sharood for teaching various further features of the wireless network, the Examiner cites Kiko as teaching the further features of the wireless network in concluding that the claim would have been obvious. Non-Final Act. 22–26.

Regarding dependent claim 35, although the Examiner does not rely upon Sharood for teaching 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, the Examiner cites Kiko as teaching these features in concluding that the claim would have been obvious. Non-Final Act. 26.

Appellant argues that the rationale for combining Sharood and Kiko is improper. *See* Appeal Br. 34–35.

Regarding dependent claim 37, although the Examiner does not provide citations to Sharood for teaching the first sensor consists of, or comprises, a nanosensor, a crystal, or a semiconductor, the Examiner cites

Kiko as teaching these features in concluding that the claim would have been obvious. Non-Final Act. 26–27.

Appellant argues that the rationale for combining Sharood and Kiko is improper for lacking relevance to the claimed features.

Moreover, in addition to the arguments above specific to certain dependent claims, Appellant argues generally that (1) Sharood and Kiko are not analogous, (2) the rationale to combine Sharood and Kiko is improper as the same rationale is repeated for different claims, (3) the rationale is redundant to Sharood, and (4) the rationale is conclusory and general as failing to explain why a wireless technology is to be used in general and the recited wireless technologies in particular. *See* Appeal Br. 30–34.

ISSUE

Under § 103, is the Examiner's proposed combination of the cited references supported by articulated reasoning with some rational underpinning to justify the Examiner's obviousness conclusion in the rejection of claims 25–28, 30, 31, 35, and 37?

ANALYSIS

Claims 25–28, 30, and 31

We begin by noting that the Examiner's reliance on Kiko's particular teachings is undisputed. Rather, as noted above, this dispute turns solely on the Examiner's combination of Sharood and Kiko. Therefore, we confine our discussion to the rationale to combine Sharood and Kiko.

Turning first then to Appellant's contentions that Sharood and Kiko are non-analogous art (Appeal Br. 30–31), as previously noted, prior art is

analogous if it is (1) from the same field of endeavor regardless of the problem addressed, or (2) reasonably pertinent to the particular problem with which the inventor is involved (*see Bigio*, 381 F.3d at 1325). That is, contrary to what Appellant seems to suggest (*see* Appeal Br. 30–31; Reply Br. 14), the analogous art test does not ask whether the prior art references are analogous to *each other*, but rather asks whether the references are analogous to the claimed subject matter. *See id.*; *see also Kahn*, 441 F.3d at 986–87.

On this record then, we see no error in the Examiner's proposed combination. As the Examiner explains, both Sharood and Kiko are in the same field of endeavor as Appellant's invention, which is environment control. *See* Ans. 23. Moreover, both Sharood and Kiko are at least reasonably pertinent to Appellant's problem of optimizing environment control networks by use of sensors communicating over wireless networks. *See* Spec. 15, 75. Sharood pertains to a home automation system using a radio frequency network to monitor and optimize home utilities (*see* Sharood ¶¶ 54–55) and Kiko pertains to monitoring and control functions for automation within a home using wireless networks (*see* Kiko ¶¶ 16–17, 208).

Further, to the extent Appellant contends that the Examiner's obviousness rationale is inconsistent with the patentably-distinct inventions articulated in a restriction requirement made during prosecution of the present application (*see* Appeal Br. 31), such a contention is unavailing. The propriety of the Examiner's restriction requirement that was made during prosecution is a petitionable matter that is not before us, as are objections regarding procedural inconsistences associated with that requirement. *See*

MPEP § 706.01 ("[T]he Board will not hear or decide issues pertaining to objections and formal matters which are not properly before the Board."); *see also* MPEP §§ 1201 ("The Board will not ordinarily hear a question that should be decided by the Director on petition . . . ."); 1002.02(c) (requiring that Technology Center Directors decide petitions from an Examiner's final decision requiring restriction in patent applications). Therefore, to the extent there are inconsistencies between the Examiner's restriction requirement and obviousness rejection, the Examiner's restriction requirement is not before us, nor are we bound by it. Rather, only the Examiner's obviousness rejection is before us—a rejection that is (1) articulated in the Non-Final Office Action from which this appeal was taken, and (2) based solely on the cited prior art.

Still further, to the extent Appellant contends that obviousness cannot be concluded based on the combination of Sharood and Kiko because the same rationale is used as motivation to combine for two different claims (*see* Appeal Br. 32), and that a rationale is conclusory unless it specifies use advantages specific to particular claim features (*see* Appeal Br. 33–34), we disagree. Notwithstanding the differences in recited claim features, the same advantage may apply nonetheless. Indeed, Kiko's network and RF interface in all of the specific teachings respectively cited, all commonly provide the benefit of adding varied network access technologies, thus allowing access to even distant network nodes to Sharood's power monitoring system. *See* Non-Final Act. 23–26.

We see no error in these findings and conclusions. Such an enhancement as to add greater communication capabilities by using multiple communication protocols in a power monitoring and reporting system would

be using prior art elements predictably according to their established functions—an obvious improvement. *See KSR*, 550 U.S. at 417.

We reach this conclusion even if Sharood already discloses features of various wireless communication methods, as Appellant notes (*see* Appeal Br. 33), because Sharood does not disclose performing such a shutdown with a wireless broadband network 3GPP (*see* Non-Final Act. 23), an unlicensed radio frequency Industrial, Scientific and Medical (ISM) band (*see* Non-Final Act. 23–24), a satellite link (*see* Non-Final Act. 24), or a cellular telephone 3G network (*see* Non-Final Act. 25–26) as Kiko provides. Nevertheless, Appellant's authority for the contention that reliance on "redundant" advantages from a cited art combination would preclude a finding of obviousness (*see* Appeal Br. 20–21), comes from non-precedential Board decisions *Ex parte Saiki*, Appeal No. 2000-0373 (BPAI Jan. 17, 2002); *Ex parte Burak*, Appeal No. 2004-0823 (BPAI Dec. 8, 2004); *Ex parte Anttila & Jung*, Appeal No. 2010-006328 (BPAI Sept. 27, 2012); *Ex parte Kastelewicz*, Appeal No. 2008-004808 (BPAI June 9, 2009); and *Ex parte Levine*, Appeal No. 2010-001240 (BPAI Sept. 25, 2012). Not only are the facts in these cases different from those at issue here, as non-precedential decisions, *Saiki*, *Burak*, *Anttila & Jung*, *Kastelewicz* and *Levine* are not binding on this panel in any event. *See* PTAB Standard Operating Procedure 2 (Rev. 10) § I(B), https://www.uspto.gov/sites/default/files/documents/ SOP2%20R10%20FINAL.pdf. Nor have these cases been designated as informative. *See* Alphabetical Listing of Informative Decisions, USPTO, https://www.uspto.gov/patents/ptab/decisions-and-opinions/informative-opinions-0.

Nor are we persuaded by Appellant's contentions that insufficient answers in the Examiner's Answer to arguments raised in the Appeal Brief affect the grounds of rejection upon which this appeal is taken, such that sustaining the Examiner's rejection would ostensibly constitute a new ground of rejection. *See* Reply Br. 14. Here, the Examiner sets forth in the Examiner's Answer that the rejection is proper and offers additional explanation as to the combination. *See* Ans. 23–25.

To the extent Appellant contends that the Examiner's explanation constitutes an undesignated new ground of rejection in the Answer (*see* Reply Br. 12), that is a petitionable matter that is not before us. *See* 37 C.F.R. § 41.40(a); *see also* MPEP § 1207.03(b). Where, as here, Appellant did not file such a petition, Appellant's contentions regarding any alleged new ground of rejection in the Answer are waived. *See* 37 C.F.R. § 41.40(a).

Given this waiver, Appellant's contentions that our sustaining the Examiner's rejection in light of the Examiner's Answer should be considered a new ground (Reply Br. 12) are unpersuasive. Therefore, we are not persuaded that the Examiner erred in rejecting claims 25–28, 30, and 31.

Claims 35 and 37

Because we do not sustain the rejection of claim 32, as discussed above, we also do not sustain the rejection of claims 35 and 37 that depend from claim 32. Nor has the Examiner shown that the additional cited prior art cures those deficiencies. We, therefore, need not address Appellant's other arguments regarding claims 35 and 37.

THE OBVIOUSNESS REJECTION OVER SHAROOD AND HENDRICKSON

Regarding dependent claims 38–40, 42, 43, and 47–50, the Examiner does not rely upon Sharood for teaching the first sensor consists of, or comprises, specific claimed types of sensors, but rather relies upon Hendrickson to teach these features in concluding that the claim would have been obvious. *See* Non-Final Act. 27–30.

Regarding dependent claim 59, although the Examiner does not cite to Sharood for teaching the actuator consists of, or comprises a chemical actuator and is operative for changing or affecting a matter composition, the Examiner cites to Hendrickson to teach these features in concluding that the claim would have been obvious. *See* Non-Final Act. 14; Ans. 13–14.

Regarding dependent claim 60, although the Examiner does not cite to Sharood for teaching the actuator consists of, or comprises a thermoelectric actuator and is a heater operative for affecting the temperature of a solid, a liquid, or a gas object, and is coupled to the object by conduction, convection, force convection, thermal radiation, or by the transfer, the Examiner cites to Hendrickson to teach these features in concluding that the claim would have been obvious. *See* Non-Final Act. 14–15; Ans. 13–14.

Appellant argues (1) Sharood and Hendrickson are non-analogous references, (2) the rationale for combining Sharood and Hendrickson is improper for failing to provide a link between the factual findings and the conclusion of obviousness, (3) Sharood already discloses the advantage provided by Hendrickson, and (4) the rationale does not explain how teachings of Hendrickson are used and specific functionality with the Sharood device. *See* Appeal Br. 36–39

ISSUE

Under § 103, is the Examiner's proposed combination of the cited references supported by articulated reasoning with some rational underpinning to justify the Examiner's obviousness conclusion in the rejection of claims 38–40, 42, 43, 47–50, 59, and 60?

ANALYSIS

We begin by noting that the Examiner's reliance on Hendrickson's particular teachings is undisputed. Rather, as noted above, this dispute turns solely on the Examiner's combination of Sharood and Hendrickson. Therefore, we confine our discussion to the rationale to combine Sharood and Hendrickson.

Turning first then to Appellant's contentions that Sharood and Hendrickson are non-analogous art (Appeal Br. 36–37), as previously noted, prior art is analogous if it is (1) from the same field of endeavor regardless of the problem addressed, or (2) reasonably pertinent to the particular problem with which the inventor is involved (*see Bigio*, 381 F.3d at 1325). That is, contrary to what Appellant seems to suggest (*see* Appeal Br. 36–37; Reply Br. 16), the analogous art test does not ask whether the prior art references are analogous to *each other*, but rather asks whether the references are analogous to the claimed subject matter. *See id.*; *see also Kahn*, 441 F.3d at 986–87.

On this record then, we see no error in the Examiner's proposed combination. As explained by the Examiner, both Sharood and Hendrickson are of the same field of endeavor as Appellant's invention, which is

environment control . *See* Ans. 26–27. Moreover, both Sharood and Hendrickson are at least reasonably pertinent to Appellant's problem of optimizing environment control networks by use of sensors communicating over wireless networks. *See* Spec. 15, 75. Sharood pertains to a home automation system using a radio frequency network to monitor and optimize home utilities (*see* Sharood ¶¶ 54–55) and Hendrickson pertains to enhancing appliance functionality by controlling the appliance automatically using various sensors (*see* Hendrickson ¶¶ 1, 51).

Nor do we find error in the Examiner's rationale to combine Sharood and Hendrickson, despite Appellant's contention that such rationale is in error when it is used for different claims (*see* Appeal Br. 37–38). A key aspect of the Examiner's rationale relies on the functionality of Sharood's monitoring system that receives and provides power to an appliance. *See* Non-Final Act. 16; Ans. 15. Given this functionality, the Examiner concludes that it would have been obvious to enhance an appliance monitoring system as disclosed by Sharood with various types of sensors that supplement functionality of the appliance. *See* Non-Final Act. 27; Ans. 27–28.

We see no error in these findings and conclusions. Such an enhancement of adding additional sensors to an appliance monitoring system to increase the types of information being sensed, and thus expand the monitoring capabilities, uses prior art elements predictably according to their established functions—an obvious improvement. *See KSR*, 550 U.S. at 417. To the extent Appellant suggests that a motivation to combine Sharood with Hendrickson cannot be found based on the sensing functionality generally simply because the combination includes specific kinds of sensors as

Hendrickson provides (*see* Appeal Br. 37–38), we are not persuaded. The same advantage of expanding the monitoring capabilities results no matter the specific kind of sensor disclosed by Hendrickson.

We reach this conclusion even if Sharood already discloses various sensors and consumer accessory devices, as Appellant notes (*see* Appeal Br. 38), because Sharood does not disclose the specific sensors as Hendrickson provides. Notwithstanding, Appellant's authority for the contention that reliance on "redundant" advantages from a cited art combination would preclude a finding of obviousness (*see* Appeal Br. 20–21), comes from non-precedential Board decisions *Ex parte Saiki*, Appeal No. 2000-0373 (BPAI Jan. 17, 2002); *Ex parte Burak*, Appeal No. 2004-0823 (BPAI Dec. 8, 2004); *Ex parte Anttila & Jung*, Appeal No. 2010-006328 (BPAI Sept. 27, 2012); *Ex parte Kastelewicz*, Appeal No. 2008-004808 (BPAI June 9, 2009); and *Ex parte Levine*, Appeal No. 2010-001240 (BPAI Sept. 25, 2012). Not only are the facts in these cases different from those at issue here, as non-precedential decisions, *Saiki*, *Burak*, *Anttila & Jung*, *Kastelewicz*, and *Levine* are not binding on this panel in any event. *See* PTAB Standard Operating Procedure 2 (Rev. 10) § I(B), https://www.uspto.gov/sites/default/files/documents/ SOP2%20R10%20FINAL.pdf. Nor have these cases been designated as informative. *See* Alphabetical Listing of Informative Decisions, USPTO, https://www.uspto.gov/patents/ptab/decisions-and-opinions/informative-opinions-0.

Nor are we persuaded by Appellant's contentions that insufficient answers in the Examiner's Answer to arguments raised in the Appeal Brief affect the grounds of rejection upon which this appeal is taken, such that sustaining the Examiner's rejection would ostensibly constitute a new

ground of rejection. *See* Reply Br. 16–17. Here, the Examiner sets forth in the Examiner's Answer that the rejection is proper and offers additional explanation as to the combination. *See* Ans. 13–14, 27–29.

To the extent Appellant contends that the Examiner's explanation constitutes an undesignated new ground of rejection in the Answer (*see* Reply Br. 16–17), that is a petitionable matter that is not before us. *See* 37 C.F.R. § 41.40(a); *see also* MPEP § 1207.03(b). Where, as here, Appellant did not file such a petition, Appellant's contentions regarding any alleged new ground of rejection in the Answer are waived. *See* 37 C.F.R. § 41.40(a).

Given this waiver, Appellant's contentions that our sustaining the Examiner's rejection in light of the Examiner's Answer should be considered a new ground (Reply Br. 16–17) are unpersuasive. Therefore, we are not persuaded that the Examiner erred in rejecting claims 59 and 60.

However, because we do not sustain the rejection of claim 32 as discussed above, we also do not sustain the rejection of claims 38–40, 42, 43, and 47–50 which depend from claim 32. Nor has the Examiner shown that the additional cited prior art cures those deficiencies. Therefore, we need not address Appellant's other arguments regarding claims 38–40, 42, 43, and 47–50.

THE OBVIOUSNESS REJECTION OVER SHAROOD AND ANSARI

Regarding dependent claims 61, 63, and 64, although the Examiner does not cite to Sharood for teaching the appliance being further addressable in the wireless network using distinct locally administered addresses uniquely identifying the appliance in the wireless network, and using a layer

3 address assigned by another appliance using Dynamic Host Configuration Protocol (DHCP), the Examiner cites Ansari as teaching these features in concluding that the claims would have been obvious. Non-Final Act. 33–35.

Appellant argues (1) Sharood and Ansari are non-analogous references, (2) the rationale for combining Sharood and Ansari is improper for failing to provide a link between the factual findings and the conclusion of obviousness, (3) Sharood already discloses the advantage provided by Ansari, (4) the rationale does not explain how teachings of Ansari are used and more specifics about what is being combined from Ansari with the Sharood device, and (5) the cited passage from Ansari is misrepresented in the rejection rationale for what it discloses. *See* Appeal Br. 47–52.

ISSUE

Under § 103, is the Examiner's proposed combination of the cited references supported by articulated reasoning with some rational underpinning to justify the Examiner's obviousness conclusion in the rejection of claims 61, 63, and 64?

ANALYSIS

We begin by noting that the Examiner's reliance on Ansari's particular teachings is undisputed. Rather, as noted above, this dispute turns solely on the Examiner's combination of Sharood and Ansari. Therefore, we confine our discussion to the motivations to combine Sharood and Ansari.

Turning first then to Appellant's contentions that Sharood and Ansari are non-analogous art (Appeal Br. 47–48), as previously noted, prior art is analogous if it is (1) from the same field of endeavor regardless of the

problem addressed, or (2) reasonably pertinent to the particular problem with which the inventor is involved (*see In re Bigio*, 381 F.3d at 1325). That is, contrary to what Appellant seems to suggest (*see* Appeal Br. 47; Reply Br. 19), the analogous art test does not ask whether the prior art references are analogous to *each other*, but rather asks whether the references are analogous to the claimed subject matter. *See id.*; *see also In re Kahn*, 441 F.3d at 986–87.

On this record then, we see no error in the Examiner's proposed combination. As explained by the Examiner, both Sharood and Ansari are of the same field of endeavor as Appellant's invention, which is environment control. *See* Ans. 36. Moreover, both Sharood and Ansari are at least reasonably pertinent to Appellant's problem of optimizing environment control networks by use of sensors communicating over wireless networks. *See* Spec. 15, 75. Sharood pertains to a home automation system using a radio frequency network to monitor and optimize home utilities (*see* Sharood ¶¶ 54–55) and Ansari pertains to controlling endpoints for wireless home network automation (*see* Ansari ¶¶ 96–97, 116).

Further, to the extent Appellant contends that the Examiner's obviousness rationale is inconsistent with the patentably-distinct inventions articulated in a restriction requirement made during prosecution of the present application (*see* Appeal Br. 48), such a contention is unavailing. The propriety of the Examiner's restriction requirement that was made during prosecution is a petitionable matter that is not before us, as are objections regarding procedural inconsistences associated with that requirement. *See* MPEP §§ 706.01 ("[T]he Board will not hear or decide issues pertaining to objections and formal matters which are not properly before the Board.");

see also MPEP § 1201 ("The Board will not ordinarily hear a question that should be decided by the Director on petition . . . ."), 1002.02(c) (requiring that Technology Center Directors decide petitions from an Examiner's final decision requiring restriction in patent applications). Therefore, to the extent there are inconsistencies between the Examiner's restriction requirement and obviousness rejection, the Examiner's restriction requirement is not before us, nor are we bound by it. Rather, only the Examiner's obviousness rejection is before us—a rejection that is (1) articulated in the Non-Final Office Action from which this appeal was taken, and (2) based solely on the cited prior art.

Nor do we find error in the Examiner's rationale to combine Sharood and Ansari, despite Applicant's contention that such rationale is in error when it is used for different claims (*see* Appeal Br. 49). Notwithstanding the differences in recited claim features, the same advantage may apply nonetheless. Indeed, Ansari's network gateway in all of the specific teachings respectively cited, all commonly provide the benefit of making available and accessible (exposing) endpoints of a home automation system via network addressing, thus allowing greater access to Sharood's power monitoring system. *See* Non-Final Act. 34.

We see no error in these findings and conclusions. Such an enhancement of a network addressing scheme to increase the availability and access to monitoring capabilities uses prior art elements predictably according to their established functions—an obvious improvement. *See KSR*, 550 U.S. at 417. To the extent Appellant contends that a motivation to combine Sharood with Ansari cannot be found because "some of the wireless technologies do not lend themselves to be used in building

automation as described by the Sharood reference" (*see* Appeal Br. 49), we are not persuaded. Ansari contemplates using its wireless gateway technology in building automation as a home automation networking device. *See* Ansari ¶ 97; Fig. 11.

We reach this conclusion even if Sharood already discloses the same advantages as Appellant contends (*see* Appeal Br. 50–51) because Sharood does not disclose the network addressing as Ansari provides. Nevertheless, Appellant's authority for the contention that reliance on "redundant" advantages from a cited art combination would preclude a finding of obviousness (*see* Appeal Br. 49–50), comes from non-precedential Board decisions *Ex parte Saiki*, Appeal No. 2000-0373 (BPAI Jan. 17, 2002); *Ex parte Burak*, Appeal No. 2004-0823 (BPAI Dec. 8, 2004); *Ex parte Anttila & Jung*, Appeal No. 2010-006328 (BPAI Sept. 27, 2012); *Ex parte Kastelewicz*, Appeal No. 2008-004808 (BPAI June 9, 2009); and *Ex parte Levine*, Appeal No. 2010-001240 (BPAI Sept. 25, 2012). Not only are the facts in these cases different from those at issue here, as non-precedential decisions, *Saiki*, *Burak*, *Anttila & Jung*, *Kastelewicz*, and *Levine* are not binding on this panel in any event. *See* PTAB Standard Operating Procedure 2 (Rev. 10) § I(B), https://www.uspto.gov/sites/default/files/documents/SOP2%20R10%20FINAL.pdf. Nor have these cases been designated as informative. *See* Alphabetical Listing of Informative Decisions, USPTO, https://www.uspto.gov/patents/ptab/decisions-and-opinions/informative-opinions-0.

Appellant's contentions that the combination of Sharood and Ansari is improper for being conclusory and not explaining how Sharood is modified by Ansari to arrive at the claims, are also not persuasive. To be sure,

"[r]ejections on obviousness grounds cannot be sustained by mere conclusory statements; instead, there must be some articulated reasoning with some rational underpinning to support the legal conclusion of obviousness." *KSR*, 550 U.S. at 418 (2007) (quoting *Kahn*, 441 F.3d at 988). On this record, however, we do not find error in the Examiner's rejections relying upon the combination of Sharood and Ansari. The Examiner articulates that Sharood discloses elements from claim 1, which are further limited by dependent claims 61, 63, and 64. Moreover, the Examiner articulates that Ansari is relied upon for its teachings for these further limitations, such as (1) the appliance being further addressable in the wireless network using distinct locally administered addresses uniquely identifying the appliance in the wireless network (*see* Non-Final Act. 34); (2) the digital address is a layer 3 address and is a static or dynamic Internet Protocol (IP) address (*see* Non-Final Act. 34); and (3) the digital address is assigned by another appliance using DHCP (*see* Non-Final Act. 35).

To the extent Appellant contends that the articulated reasoning required any further details regarding how, why, or where elements were incorporated into Sharood and whether they are substitutes or additional components (*see* Appeal Br. 50–51), we are not persuaded. The test for obviousness is not whether a secondary reference's features can be bodily incorporated into the structure of the primary reference. *In re Keller*, 642 F.2d at 425 (CCPA 1981). Rather, the test is what the combined teachings of the references would have suggested to those of ordinary skill in the art. *Id.*

We find unavailing Appellant's contentions that the Examiner's rationale to combine Sharood with Ansari ostensibly lacks rational

underpinning. *See* Appeal Br. 51. After arguing that the combination with Ansari is conclusory and fails to explain the combination (*see* Appeal Br. 50), Appellant then contends the combination is adding the functionality of an addressing mechanism, and that such a combination would feature a "trivial, inherent, and self-evident" motivation to combine that would lack rational underpinning (*see* Appeal Br. 51). Appellant provides no persuasive evidence proving this assertion. Such unsubstantiated attorney argument has low probative value. *See In re Geisler*, 116 F.3d 1465, 1470 (Fed. Cir. 1997).

Nor do we find availing Appellant's contention that the Examiner's explanation of Ansari's paragraph 1 is allegedly misrepresentative. The Examiner cites Ansari's paragraph 1 as supporting the obviousness conclusion based on combining Sharood with Ansari. Therefore, the explanation given by the Examiner prior to the Ansari citation is not intended as a representation of Ansari, but rather to provide evidence supporting the combination's rationale. The Examiner concludes that it would be obvious to combine Sharood and Ansari to expose the presence and functionalities of associated endpoints (of the home network) via a wide area network. *See* Non-Final Act. 34. Indeed, Ansari's gateway device exposes the presence and functionalities of one or more associated end point devices via a wide area network. Ansari ¶ 1. Therefore, we are not persuaded that the Examiner erred in citing and relying on Ansari for concluding obviousness based on the combination of Sharood and Ansari.

Nor are we persuaded by Appellant's contentions that insufficient answers in the Examiner's Answer to arguments raised in the Appeal Brief affect the grounds of rejection upon which this appeal is taken, such that

sustaining the Examiner's rejection would ostensibly constitute a new ground of rejection. *See* Reply Br. 19. Here, the Examiner sets forth in the Examiner's Answer that the rejection is proper and offers additional explanation as to the combination. *See* Ans. 36–39.

To the extent Appellant contends that the Examiner's explanation constitutes an undesignated new ground of rejection in the Answer (*see* Reply Br. 19), that is a petitionable matter that is not before us. *See* 37 C.F.R. § 41.40(a); *see also* MPEP § 1207.03(b). Where, as here, Appellant did not file such a petition, Appellant's contentions regarding any alleged new ground of rejection in the Answer are waived. *See* 37 C.F.R. § 41.40(a).

Given this waiver, Appellant's contentions that our sustaining the Examiner's rejection in light of the Examiner's Answer should be considered a new ground (Reply Br. 19) are unpersuasive.

Therefore, we are not persuaded that the Examiner erred in rejecting claims 61, 63, and 64.

THE OBVIOUSNESS REJECTION OVER SHAROOD, ANSARI, AND WONG

Regarding dependent claim 62, although the Examiner does not cite Sharood for teaching the digital address is a Media Access Control (MAC) layer address, the Examiner cites Wong as teaching this feature in concluding that the claim would have been obvious. Non-Final Act. 35–36.

Appellant argues (1) Sharood and Wong are non-analogous references, and (2) the rationale to combine Sharood and Wong is improper for (a) misrepresenting the cited portion from Wong and not explaining how

and why the provided motivation rationale is related to the claimed limitation; (b) using a motivational advantage already disclosed in Sharood and thus redundant; (c) including use of a different wireless networking standard than that disclosed for claim 61 from which claim 62 depends; and (d) not explaining how teachings of Wong are used and more specifics about what is being combined from Wong with the Sharood device. *See* Appeal Br. 52–56.

ISSUE

Under § 103, is the Examiner's proposed combination of the cited references supported by articulated reasoning with some rational underpinning to justify the Examiner's obviousness conclusion in the rejection of claim 62?

ANALYSIS

We begin by noting that the Examiner's reliance on Wong's particular teachings is undisputed. Rather, as noted above, this dispute turns solely on the Examiner's combination of Sharood, Ansari, and Wong. Therefore, we confine our discussion to the rationale to combine the cited references.

Turning first then to Appellant's contentions that Sharood and Wong are non-analogous art (Appeal Br. 52–54), as previously noted, prior art is analogous if it is (1) from the same field of endeavor regardless of the problem addressed, or (2) reasonably pertinent to the particular problem with which the inventor is involved (*see Bigio*, 381 F.3d at 1325). That is, contrary to what Appellant seems to suggest (*see* Appeal Br. 52–53; Reply Br. 20), the analogous art test does not ask whether the prior art references

are analogous to *each other*, but rather asks whether the references are analogous to the claimed subject matter. *See id.*; *see also Kahn*, 441 F.3d at 986–87.

On this record then, we see no error in the Examiner's proposed combination. As explained by the Examiner, both Sharood and Wong are in the same field of endeavor as Appellant's invention, which is environment control. *See* Ans. 40. Moreover, both Sharood and Wong are at least reasonably pertinent to Appellant's problem of optimizing environment control networks by use of sensors communicating over wireless networks. *See* Spec. 15, 75. Sharood pertains to a home automation system using a radio frequency network to monitor and optimize home utilities (*see* Sharood ¶¶ 54–55), and Wong pertains to (1) measuring AC current usage of a load device, and (2) transmitting values based on the measurements over a Wi-Fi network in order to configure, modify and administer energy settings for more efficient operations (*see* Wong ¶¶ 14, 42).

Further, to the extent Appellant contends that the Examiner's obviousness rationale is inconsistent with the patentably-distinct inventions articulated in a restriction requirement made during prosecution of the present application (*see* Appeal Br. 53–54), such a contention is unavailing. The propriety of the Examiner's restriction requirement that was made during prosecution is a petitionable matter that is not before us, as are objections regarding procedural inconsistences associated with that requirement. *See* MPEP § 706.01 ("[T]he Board will not hear or decide issues pertaining to objections and formal matters which are not properly before the Board."); *see also* MPEP §§ 1201 ("The Board will not ordinarily hear a question that should be decided by the Director on petition . . . ."),

1002.02(c) (requiring that Technology Center Directors decide petitions from an Examiner's final decision requiring restriction in patent applications). Therefore, to the extent there are inconsistencies between the Examiner's restriction requirement and obviousness rejection, the Examiner's restriction requirement is not before us, nor are we bound by it. Rather, only the Examiner's obviousness rejection is before us—a rejection that is (1) articulated in the Non-Final Office Action from which this appeal was taken, and (2) based solely on the cited prior art.

Nor are we persuaded that the Examiner's rationale to combine the cited references is improper. Appellant's contentions that the Examiner's rationale to combine Sharood and Wong misrepresents the cited portion of Wong and fails to explain why and how the provided benefit of the combination relates to the claimed features (*see* Appeal Br. 54) are unavailing. The rationale to combine Wong with Sharood cites to Wong disclosing a communication module (described later in Wong as a sensor) operative to transmit AC power values calculated from measured AC current by a measurement module in accordance with a Wi-Fi wireless networking standard to a wireless network access point. *See* Wong ¶¶ 14, 54. The Examiner reasons that combining Wong with Sharood is motivated by enhancements from assigning unique addresses to sensors to transmit the values to a wireless network access point. *See* Non-Final Act. 36; Ans. 39–40. Given this reasoning in view of the cited portion of Wong, we see no misrepresentation in the Examiner's rationale. Moreover, Appellant has not provided additional explanation as to what is mischaracterized by the Examiner's rationale. *See* Appeal Br. 54; Reply Br. 20–21. Further, the Examiner's rationale provides that an enhancement to Sharood's appliance

monitoring device is by assigning unique addresses to sensors, as Wong provides. *See* Non-Final Act. 36. Given that claim 62 recites features of a MAC layer address, and Wong teaches assigning MAC addresses to sensors, we find that the reason to combine Wong with Sharood has sufficient rational underpinning that ties the enhancement of the unique MAC addresses of Wong to the appliance monitoring sensor of Sharood.

We reach this conclusion regardless of what other teachings can be inferred from Wong, such as adding addresses to a sensor additionally providing a means to provide a service, as Appellant suggests. *See* Appeal Br. 54. In short, there is no persuasive evidence on this record proving that Wong's teachings criticize, discredit, or otherwise discourage investigation into the invention claimed as required for teaching away. *See Norgren Inc. v. Int'l Trade Comm'n,* 699 F.3d 1317, 1326 (Fed. Cir. 2012); *see also Kahn*, 441 F.3d at 990.

We reach this conclusion even if Sharood already discloses the same advantages as Appellant contends (*see* Appeal Br. 50–51) because Sharood does not disclose the MAC addressing as Wong provides. Nevertheless, Appellant's authority for the contention that reliance on "redundant" advantages from a cited art combination would preclude a finding of obviousness (*see* Appeal Br. 55), comes from non-precedential Board decisions *Ex parte Saiki*, Appeal No. 2000-0373 (BPAI Jan. 17, 2002); *Ex parte Burak*, Appeal No. 2004-0823 (BPAI Dec. 8, 2004); *Ex parte Anttila & Jung*, Appeal No. 2010-006328 (BPAI Sept. 27, 2012); *Ex parte Kastelewicz*, Appeal No. 2008-004808 (BPAI June 9, 2009); and *Ex parte Levine*, Appeal No. 2010-001240 (BPAI Sept. 25, 2012). Not only are the facts in these cases different from those at issue here, as non-precedential

decisions, *Saiki*, *Burak*, *Anttila & Jung*, *Kastelewicz*, and *Levine* are not binding on this panel in any event. *See* PTAB Standard Operating Procedure 2 (Rev. 10) § I(B), https://www.uspto.gov/sites/default/files/documents/SOP2%20R10%20FINAL.pdf. Nor have these cases been designated as informative. *See* Alphabetical Listing of Informative Decisions, USPTO, https://www.uspto.gov/patents/ptab/decisions-and-opinions/informative-opinions-0.

Nor are we persuaded by Appellant's contentions that the rationale to combine Sharood with Wong is improper for referencing a different network scheme than that referenced in the combination rationale for claim 61 from which claim 62 depends, and referencing different layers of the open systems interconnection (OSI) layer stack. *See* Appeal Br. 55–56. To the extent Appellant suggests that a wide area network is incompatible or inoperable with a local area network, and that addressing schemes at different OSI layers are similarly incompatible or inoperable together, Appellant provides no persuasive evidence proving these assertions. Such unsubstantiated attorney argument has low probative value. *See In re Geisler*, 116 F.3d 1465, 1470 (Fed. Cir. 1997).

Further, to the extent Appellant contends that the articulated reasoning required any further details regarding how added sensors are incorporated into Sharood and what added services are provided by added elements (*see* Appeal Br. 56), we are not persuaded. The test for obviousness is not whether a secondary reference's features can be bodily incorporated into the structure of the primary reference. *Keller*, 642 F.2d at 425. Rather, the test is what the combined teachings of the references would have suggested to those of ordinary skill in the art. *Id.*

Finally, we are not persuaded by Appellant's contentions that insufficient answers in the Examiner's Answer to arguments raised in the Appeal Brief affect the grounds of rejection upon which this appeal is taken, such that sustaining the Examiner's rejection would ostensibly constitute a new ground of rejection. *See* Reply Br. 20–21. Here, the Examiner sets forth in the Examiner's Answer that the rejection is proper and offers additional explanation as to the combination. *See* Ans. 40–43.

To the extent Appellant contends that the Examiner's explanation constitutes an undesignated new ground of rejection in the Answer (*see* Reply Br. 20–21), that is a petitionable matter that is not before us. *See* 37 C.F.R. § 41.40(a); *see also* MPEP § 1207.03(b). Where, as here, Appellant did not file such a petition, Appellant's contentions regarding any alleged new ground of rejection in the Answer are waived. *See* 37 C.F.R. § 41.40(a).

Given this waiver, Appellant's contentions that our sustaining the Examiner's rejection in light of the Examiner's Answer should be considered a new ground (Reply Br. 20–21) are unpersuasive.

Therefore, we are not persuaded that the Examiner erred in rejecting claim 62.

THE OTHER OBVIOUSNESS REJECTIONS

We do not sustain the Examiner's obviousness rejections of dependent claims 41 and 44–46. *See* Non-Final Act. 30–33.

Because we do not sustain the rejection against claim 32, as discussed above, we also do not sustain the rejection of claims 41 and 44–46, which depend from claim 32. Nor has the Examiner shown that the additional cited

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prior art cures those deficiencies. Accordingly, we need not address Appellant's other arguments regarding claims 41 and 44–46.

CONCLUSION

In summary:

Claims Rejected	35 U.S.C. §	Reference(s)/ Basis	Affirmed	Reversed
1–7, 9, 10, 12–19, 32–34, 36, 54–58	102(b)	Sharood	1–5, 7, 12–19, 54, 58	6, 9, 10, 32–34, 36, 55–57
8, 11, 20, 21, 23, 24, 51–53	103(a)	Sharood, Legaspi	8, 11, 20, 21, 23, 24, 51–53	
22, 29	103(a)	Sharood, Legaspi, Rada	22, 29	
25–28, 30, 31, 35, 37	103(a)	Sharood, Kiko	25–28, 30, 31	35, 37
38–40, 42, 43, 47–50, 59, 60	103(a)	Sharood, Hendrickson	59, 60	38–40, 42, 43, 47–50
41	103(a)	Sharood, Mehta		41
44–46	103(a)	Sharood, Hendrickson, Kiko		44–46
61, 63, 64	103(a)	Sharood, Ansari	61, 63, 64	
62	103(a)	Sharood, Ansari, Wong	62	
Overall Outcome			1–5, 7, 8, 11–31, 54, 58–64	6, 9, 10, 32–53, 55–57

TIME PERIOD FOR RESPONSE

No time period for taking any subsequent action in connection with this appeal may be extended under 37 C.F.R. § 1.136(a)(1)(iv). *See* 37 C.F.R. § 41.50(f).

AFFIRMED IN PART

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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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	2	6957133	B1	2005-10-18	Robert Hunt	
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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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	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)	2021-06-23
Name/Print	Yehuda Binder	Registration Number	73612

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Veröffentlicht:

— *mit internationalem Recherchenbericht (Artikel 21 Absatz 3)*

(54) Title: ALARM DEVICE FOR DETECTING AND COMMUNICATING ENVIRONMENT- AND SYSTEM-SPECIFIC STATES

(54) Bezeichnung : ALARMEINRICHTUNG ZUR ERKENNUNG UND MITTEILUNG VON UMGEBUNGS- UND ANLAGENSPEZIFISCHEN ZUSTÄNDEN

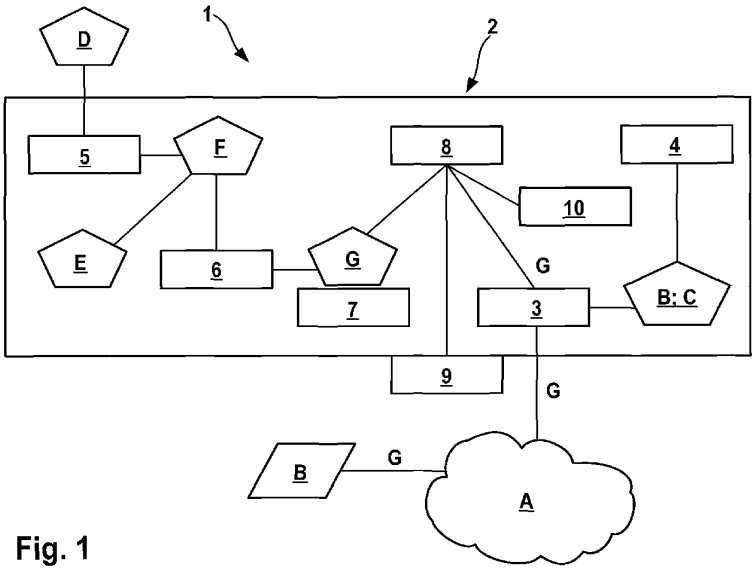


Fig. 1

(57) Abstract: The invention relates to an alarm device 1 for detecting and communicating environment- and device-specific states, comprising a communication interface 3 for the wireless transmission of information G to one or more destination addresses B, wherein the communication interface 3 is designed in particular as a WLAN interface and/or as a mobile radio interface, wherein the communication interface is designed in terms of program and/or circuitry to establish and/or maintain access to the public Internet (A) in order to transmit the information (G) to one or more destination addresses (B).

(57) Zusammenfassung: Alarmeinrichtung 1, zur Erkennung und Mitteilung von umgebungs- und einrichtungsspezifischen Zuständen, mit einer Kommunikationsschnittstelle 3 zur kabellosen Übertragung von Informationen G an eine oder mehrere Zieladressen B, wobei die Kommunikationsschnittstelle 3 insbesondere als WLAN-Schnittstelle und/oder als eine Mobilfunkschnittstelle ausgebildet ist, wobei die Kommunikationsschnittstelle programmtechnisch und/oder schaltungstechnisch ausgebildet ist, einen Zugang zum öffentlichen Internet (A) herzustellen und/oder aufrechtzuerhalten, um die Informationen (G) an die eine oder mehrere Zieladressen (B) zu übertragen.

WO 2011/051022 A1

Beschreibung

Titel
Alarmeinrichtung zur Erkennung und Mitteilung von umgebungs- und anlagenspezifischen Zuständen

Stand der Technik

Die Erfindung betrifft eine Alarmeinrichtung zur Erkennung und Mitteilung von umgebungs- und anlagenspezifischen Zuständen, mit einer Kommunikationsschnittstelle zur kabellosen Übertragung von Informationen an eine oder mehrere Zieladressen, wobei die Kommunikationsschnittstelle insbesondere als eine WLAN-Schnittstelle und/oder als eine Mobilfunkschnittstelle ausgebildet ist.

Alarmeinrichtungen haben die Aufgabe, Personen in einer Umgebung der Alarmeinrichtung auf eine Gefahrensituation hinzuweisen und so letztlich auch Leben retten zu können. Üblicherweise sind mehrere Alarmeinrichtungen in Wohnungen, Gebäuden oder Gebäudekomplexen integriert und miteinander über Kabel oder Funk vernetzt, um an jedem Ort über die Gefahrensituation informieren zu können. Aus vielen Anwendungen ist es bekannt, dass Alarmeinrichtungen über Draht oder Funk einen Notruf zu einem externen Dienstleister, wie z.B. einem Sicherheitsdienst oder einer Einsatzzentrale, absetzen können, um schnell und gezielt Hilfe anzufordern.

Die Schrift US 7 019 646 B1, die wohl den nächstliegenden Stand der Technik bildet, beschreibt eine Vorrichtung und ein Verfahren zur Ortung eines kabellosen Rauchmelders bei einem potentiellen Brandfall. Der kabellose Rauchmelder weist eine Schnittstelle, z.B. eine WLAN-Schnittstelle, zu einem kabellosen Transceiver (Sende-Empfangsanlage) auf, der über ein existierendes kabelloses Telekommunikationsnetzwerk arbeitet. Der kabellose Transceiver kann als ein Prozessor mit einem integrierten Speicher zum Speichern von Alarmdaten ausgebildet sein. Er ist dazu geeignet, die Alarmdaten bei einem Alarmfall automatisch an eine Einsatzzentrale zu übertragen.

Offenbarung der Erfindung

Im Rahmen der Erfindung wird eine Alarmeinrichtung zur Erkennung und Mitteilung eines umgebungs- und einrichtungsspezifischen Zustandes mit den Merkmalen des Anspruchs 1, sowie eine Alarmanlage mit den Merkmalen des Anspruchs 12 vorgeschlagen. Bevorzugte oder vorteilhafte Ausführungsformen der Erfindung ergeben sich aus den Unteransprüche, der nachfolgenden Beschreibung sowie den beigefügten Figuren.

Die erfindungsgemäße Alarmeinrichtung ist ausgebildet, mindestens einen Umgebungsparameter zu erfassen, insbesondere zu überwachen, und diesen oder einen davon abgeleiteten Parameter als umgebungsspezifischen Zustand zu übermitteln. Vorzugsweise umfasst die Alarmeinrichtung einen Feuer-, Rauch-, Bewegungs- oder Existenzmelder zur Erkennung des Umgebungsparameters. Insbesondere weist die Alarmeinrichtung eine Sensoreinheit auf, die dazu geeignet und/oder ausgebildet ist, einen Umgebungsparameter, wie z. B. eine Temperatur, eine Gas- und/oder Partikelkonzentration, ein Umgebungsbild etc. zu erfassen.

Alternativ oder ergänzend ist die Alarmeinrichtung dazu geeignet und/oder ausgebildet, mindestens einen Funktionsparameter der Alarmeinrichtung zu erfassen, insbesondere zu überwachen, und diesen als einrichtungsspezifischen Zustand der Alarmeinrichtung zu übermitteln. Die Funktionsparameter können z.B. Kenngrößen einer Selbstdiagnose oder von Betriebsparametern der Alarmeinrichtung sein.

Die Alarmeinrichtung weist vorzugsweise eine Auswerteeinheit auf, die dazu geeignet und/oder ausgebildet ist, die Parameter, insbesondere die Umgebungsparameter und/oder die Funktionsparameter, auszuwerten und den umgebungs- und/oder einrichtungsspezifischen Zustand zu erkennen.

Im Rahmen der Erfindung ist unter dem umgebungsspezifischen Zustand z.B. ein Ereignisfall zu verstehen, der beispielsweise eine Gefahrensituation, wie z.B. einen Brand, eine überhöhte Rauchkonzentration, die Bewegung eines Objekts

und/oder die Existenz eines Objekts umfasst. Der umgebungsspezifische Zustand kann aber auch eine Normalsituation, insbesondere eine Nicht-Gefahrensituation und/oder eine Entwarnungssituation umfassen.

Üblicherweise umfasst der einrichtungsspezifische Zustand einen Funktionsfähigkeits- und/oder Betriebszustandsstatus der Alarmeinrichtung. Ist der Betrieb und/oder die Funktion der Alarmeinrichtung nur eingeschränkt oder nicht verfügbar oder ist also die Alarmeinrichtung ganz oder teilweise defekt, so ist unter dem einrichtungsspezifischen Zustand ebenfalls ein Ereignisfall zu verstehen.

Die Alarmeinrichtung weist eine Kommunikationsschnittstelle auf, die vorzugsweise als WLAN-Schnittstelle ausgebildet ist. Vorzugsweise ist die WLAN- Schnittstelle eine Schnittstelle zu einem Wireless Local Area Network, einem lokalen auf der Norm IEEE 802.11 basierenden Funknetz, das üblicherweise OFDM (Orthogonal Frequency Division Multiplex) als Modulationsverfahren einsetzt. Insbesondere weist die Alarmeinrichtung ein WLAN- Modul auf. Alternativ oder ergänzend ist die Kommunikationsschnittstelle als Schnittstelle zu einem drahtlosen, lokalen Funknetz ausgebildet.

Alternativ oder ergänzend umfasst die Kommunikationsschnittstelle eine Mobilfunkschnittstelle, die ausgebildet ist, mit einem öffentlichen Mobilfunknetz in Verbindung zu treten, Derartige öffentliche Mobilfunknetze dienen insbesondere dazu, Dienste für ein Mobiltelefon bereitzustellen. Die Mobilfunkschnittstelle ist insbesondere ausgebildet, einen beliebigen Dienst des öffentlichen Mobilfunknetzes zu verwenden, wie z.B. den Sprachdienst, SMS-Dienst und/oder einen Datenübertragungsdienst.

Erfindungsgemäß ist die Kommunikationsschnittstelle programmtechnisch und/oder schaltungstechnisch derart ausgebildet, einen Zugang zum öffentlichen Internet herzustellen und/oder aufrecht zu erhalten, um Informationen an eine oder mehrere Zieladressen kabellos zu übertragen. Insbesondere erfolgt eine direkte und/oder unmittelbare Verbindung von der Alarmeinrichtung mit dem Internet und/oder es wird das Internet-Protokoll (IP) des TCP/IP-Modells oder das Protokoll einer anderen Internetprotokollfamilie zur Übermittlung der Informationen verwendet. Insbesondere erhält die Alarmeinrichtung bei der

Verbindung mit dem öffentlichen Internet eine eigene und/oder eine der Alarmeinrichtung zugeordnete IP-Adresse. Die Zieladressen können beliebig ausgewählte Adressen, wie z.B. die einer Einsatzzentrale, eines Sicherheitsdiensts, eines Firmenrechners des Inhabers der Alarmeinrichtung, eines Rechners des Nachbars des Inhabers, etc. sein. Insbesondere sind die Zieladressen als IP-Adressen ausgebildet.

Vorzugsweise umfassen die Informationen Hinweise auf den umgebungs- und/oder einrichtungsspezifischen Zustand, insbesondere auf den Ereignisfall. Besonders bevorzugt ist der umgebungs- und/oder einrichtungsspezifischen Zustand als Dateninhalt über das Internet übertragbar und/oder wird übertragen.

Viele Unternehmen oder Haushalte nutzen die WLAN-Technologie (wireless local area network) bereits, um mehrere Geräte in einem Gebäude mit dem Internet zu verbinden. Oft erfolgt dies über eine sogenannte „flat rate“, was bedeutet, dass der Internetzugang und/oder die Internetverbindung zu tragbaren Kosten dauerhaft zur Verfügung stehen können. Die Erfindung nutzt die hohe Verfügbarkeit derartiger WLAN-Installationen und schlägt vor, die Alarmeinrichtung mit einer eigenen WLAN-Schnittstelle auszustatten, die der Alarmeinrichtung eine eigene Verbindung in das Internet ermöglicht. Selbstverständlich kann bei Bedarf für die Alarmeinrichtung auch ein eigenes WLAN-Netz eingerichtet werden. Alternativ oder ergänzend wird das weit verfügbare Mobilfunknetz mit analogen Vorteilen verwendet, so dass im Rahmen der Erfindung eine internetfähige Alarmeinrichtung vorgeschlagen wird,

Es ist ein nutzbarer Vorteil der Erfindung, dass Zieladressen über das Internet über den umgebungs- und/oder einrichtungsspezifischen Zustand der Alarmeinrichtung, insbesondere über Ereignisfälle, zeitnah informiert werden können. Diese Zieladressen haben die Möglichkeit, den umgebungs- und einrichtungsspezifischen Zustand zu überprüfen, obwohl sie sich nicht in einer Umgebung der Alarmeinrichtung befinden. Ein akustischer oder optischer Alarm läuft bei einer Nichtanwesenheit zu schützender oder überwachender Personen nicht ins Leere, da eine Mitteilung über den Ereignisfall, insbesondere die Gefahrensituation über das Internet an die Zieladressen weitergeleitet werden kann.

Ein weiterer nutzbarer Vorteil der Erfindung ist, dass die Alarmeinrichtung über die WLAN-Schnittstelle und/oder über einen WLAN-Router des LAN-Netzes und/oder über die IP-Adresse und/oder über die Telefonnummer eindeutig lokalisierbar ist. So kann die Zieladresse, z.B. die Einsatzzentrale, bei der Übermittlung der Informationen sofort erkennen, um welche Alarmeinrichtung es sich handelt und wo diese eingesetzt ist. Dies ist z.B. durch eine Entschlüsselung der IP-Adresse oder Telefonnummer der Alarmeinrichtung oder durch ein Mitsenden von Standortinformationen möglich.

Ebenfalls ist es optional möglich, den einrichtungsspezifischen Zustand der Alarmeinrichtung von extern zu überprüfen. Somit kann eine Person auch bei Nichtanwesenheit in der Umgebung der Alarmeinrichtung sicher sein, dass die Alarmeinrichtung funktionsfähig ist oder bei einer Fehlermeldung entsprechende Aktionen einleiten. Eine derartige Überprüfung kann z.B. von einer Zieladresse oder - bei entsprechender Konfiguration - von jedem Internetzugang auf der Welt durchgeführt werden. Es ist auch möglich, dass die Alarmeinrichtung über das Internet mit einem externen Datenlogger verbindbar ist und/oder verbunden ist, wobei die Zustände, insbesondere die einrichtungsspezifischen Zustände, protokolliert werden, so dass ein Nachweis über die Funktionsfähigkeit der Alarmeinrichtung erstellbar ist, ohne die Alarmeinrichtung vor Ort prüfen zu müssen.

Vorteilhaft ist weiterhin, dass WLAN- Module hinreichend bekannt und bereits in vielen elektronischen Geräten, wie z.B. in tragbaren Computern oder in Mobiltelefonen verbreitet sind. Es sind also auch WLAN- Module in kleinen Baugrößen und mit stromoptimierten Eigenschaften erhältlich, die durch ihre Größe auch ohne weiteres auch in einer Alarmeinrichtung integrierbar sind. Als weiterer Vorteil ist zu nennen, dass die WLAN- Module durch den Bedarf hoher Stückzahlen mittlerweile zu vertretbaren Kosten erhältlich sind und die Erfindung so zu maßvollen Preisen umsetzbar ist. Auch Module für Mobilfunkschnittstellen sind mittlerweile kostengünstig verfügbar.

In einer bevorzugten Ausführungsform ist die Alarmeinrichtung als ein Rauch- und/oder Brandmelder in einem Gehäuse ausgebildet. Insbesondere ist das Gehäuse dazu ausgebildet, an der Wand oder Decke eines Raumes montiert zu

werden. Optional kann die Alarmeinrichtung batteriebetrieben sein oder einen Versorgungsanschluss, insbesondere einen Netzanschluss aufweisen.

In manchen Ausführungsformen weist die Alarmeinrichtung eine Taste zum Ein- und Ausschalten auf. Einem Nutzer wird es dadurch u. a. ermöglicht, einen Informationsaustausch mit den Zieladressen zu verhindern bzw. zu deaktivieren oder gezielt zu aktivieren.

Vorzugsweise umfasst die Alarmeinrichtung eine Steuereinheit zur Ansteuerung einer Signaleinheit, die dazu ausgebildet ist, optische und/oder akustische Alarm- oder Entwarnungssignale auszugeben, so dass ein lokales Signal am Standort der Alarmeinrichtung erzeugt wird.

Alternativ oder ergänzend ist die Steuereinheit auch zur Ansteuerung eines elektronischen Schalters ausgebildet, der die Kommunikationsschnittstelle mit einer Energiequelle, wie z.B. einer Batterie verbinden oder von dieser trennen kann. Der elektronische Schalter kann alternativ auch dazu ausgebildet sein, die Alarmeinrichtung zu übertragungsfreien Zeiten in einen Stromsparmodus zu versetzen und/oder von der WLAN-Funktion bzw. Mobilfunkfunktion zu trennen.

Soll der umgebungsspezifische und/oder der einrichtungsspezifische Zustand übertragen werden, so kann durch die Ansteuerung des elektronischen Schalters eine Verbindung für die Übertragung der Informationen über die Kommunikationsschnittstelle aktiviert werden. Nach erfolgter Übertragung wird die Alarmeinrichtung durch erneute Ansteuerung des elektronischen Schalters in einen Ruhezustand versetzt, der keinen Stromverbrauch oder einen reduzierten Stromverbrauch aufweist.

Vorteilhaft ist, dass die Steuereinheit die Kommunikationsverbindung über den elektronischen Schalter nur zu einem Übermittlungszeitpunkt aktiviert und im Ruhezustand deaktiviert. Somit wird keine unnötige Energie durch das WLAN-Modul verbraucht. Insbesondere wenn die Alarmeinrichtung einen Versorgungsanschluss, insbesondere einen Netzanschluss aufweist, kann die Alarmeinrichtung optional auch ohne den elektronischen Schalter ausgebildet sein. Die Alarmeinrichtung kann dann dauerhaft mit Energie versorgt werden und die Kommunikationsverbindung permanent zur Verfügung stehen.

In einer weiteren möglichen Ausgestaltung der Erfindung erfolgt die Übertragung der Informationen als eine E-Mail, SMS und/oder als ein Voice- Mail. Vorzugsweise ist die Übertragung der E-Mail, der SMS und/oder der Voice- Mail Internet gestützt. Insbesondere werden die E-Mail und/oder die SMS auf einen Rechner und/oder auf ein mobiles Gerät, wie z.B. ein Mobiltelefon oder ein Smartphone, übertragen. Bei Übermittlung des Voice- Mails erfolgt eine Sprachnachricht üblicherweise auf einen fest installierten und/oder ortsgebundenen Telefonanschluss.

In einer möglichen Ausführungsform weist die Alarmeinrichtung eine Konfigurationsschnittstelle zur Übermittlung von Übertragungsmodalitäten auf. Vorzugsweise ist die Konfigurationsschnittstelle als eine Datenschnittstelle, insbesondere USB- Schnittstelle ausgebildet. Besonders bevorzugt ist, dass die Konfigurationsschnittstelle an einer leicht zugänglichen Stelle der Alarmeinrichtung angeordnet ist und so problemlos mit einem PC verbindbar ist. Über den PC können Einstellungen zum Verbindungsaufbau und zur Verschlüsselung, wie etwa WPA (Wi-Fi Protected Access), eingegeben und über die Konfigurationsschnittstelle in der Alarmeinrichtung eingestellt werden. Ebenfalls ermöglicht die Konfigurationsschnittstelle z. B. eine Festlegung der Web-, E-Mailadressen, Telefonnummern oder Passwörter der gewünschten Zieladressen über den PC.

In einer weiteren möglichen Ausführungsform ist die Alarmeinrichtung zur aktiven Übermittlung der Informationen an die mindestens eine Zieladresse ausgebildet. Vorzugsweise weist die Alarmeinrichtung eine Push-Funktion auf, bei der sie aktiv die Informationen sendet. Beispielsweise steuert sie selbstständig in einer Gefahrensituation die Übermittlung einer Alarmmeldung an die mindestens eine Zieladresse an.

Denkbar ist auch, dass die Alarmeinrichtung unaufgefordert, optional zu konfigurierten Zeitpunkten, z.B. alle acht Stunden oder einmal pro Tag, bei Normalsituationen eine Entwarnungsmeldung, insbesondere im Rahmen der Push-Funktion, sendet. Es ist weiterhin vorstellbar, dass eine Rücksetzmeldung, die von sich in einer Umgebung der Alarmeinrichtung aufhaltenden Personen vorgenommen wurde, von der Alarmeinrichtung an die Zieladressen übermittelt

werden kann. Dadurch erkennen die Zieladressen, dass ein Fehlalarm von den Personen gestoppt wurde oder eine Entspannung der Gefahrenlage vorliegt.

Optional können auch die Funktionsparameter als einrichtungsspezifische Zustände selbsttätig durch die Alarmeinrichtung übermittelt werden. Dies kann beispielsweise zyklisch erfolgen. Dadurch wird ermöglicht, dass z.B. ein Batteriestatus, ein Verschmutzungsgrad der Sensoreinheit und/oder eine Statusmeldung der Elektronik, etc., der Alarmeinrichtung von der Zieladresse geprüft werden kann und entsprechende Reparaturen eingeleitet werden können.

In einer weiteren möglichen Ausführungsform weist die Alarmeinrichtung eine Speichereinheit zur Speicherung der Informationen auf, wobei die Informationen von mindestens einer Zieladresse abrufbar sind und/oder abgerufen werden. Insbesondere unterstützt die Alarmeinrichtung eine Pull-Funktion, bei der die Alarmeinrichtung selbst passiv bleibt und aktiv von extern auf die Informationen zugegriffen wird. Beispielsweise können die mindestens einen oder weitere Zieladressen zu beliebigen Zeitpunkten und/oder in festen Zeitintervallen den einrichtungsspezifischen Zustand, insbesondere die Funktionsparameter der Alarmeinrichtung, abfragen und sich so über einen Funktionsstatus informieren. Alternativ oder zusätzlich ist der umgebungsspezifische Zustand, insbesondere die Umgebungsparameter, abrufbar.

Denkbar ist, dass die Informationen Alarmsignale oder Entwarnungssignale umfassen. Vorzugsweise umfassen die Alarmsignale konkrete Hinweise auf die Gefahrensituation. In der Ausbildung der Alarmeinrichtung als Rauch- und/oder Brandmelder liegt beispielsweise eine Gefahrensituation vor, wenn die Sensoreinheit eine erhöhte Rauchpartikelkonzentration in der Umgebung des Rauchmelders erfasst und die Auswerteeinheit einen Brand erkennt. Entwarnungssignale umfassen insbesondere konkrete Hinweise auf die Normalsituation. In der Normalsituation erfasst die Sensoreinheit, z.B. in der Ausbildung der Alarmeinrichtung als Rauch- und/oder Brandmelder, eine Gas- und/oder Partikelkonzentration, bei der die Auswerteeinheit keinen Brand erkennt.

Optional umfassen die Informationen ein oder mehrere Statusprotokolle. Vorzugsweise beinhalten die Statusprotokolle Funktions- und/oder

Servicesignale der Alarmeinrichtung. Insbesondere kann es sich dabei beispielsweise um einen Hinweis auf einen schwachen Batteriestatus oder einer defekten Warnleuchte der Alarmeinrichtung handeln.

Eine mögliche Ausgestaltung der Erfindung sieht vor, dass der Zugang zum öffentlichen Internet über das Mobilfunknetz erfolgt. Mögliche Mobilfunknetze sind beispielsweise GSM, GPRS oder UMTS. Vorzugsweise werden in dieser Weiterbildung keine weiteren Kommunikationsschnittstellen oder Zusatzgeräte, insbesondere das WLAN- Modul, benötigt.

Ein anderer Gegenstand der Erfindung betrifft eine Alarmanlage mit einer Empfangsstation und mit mindestens einer Alarmeinrichtung nach einem der vorhergehenden Ansprüche, wobei die Empfangsstation eine Kopplung mit dem Internet aufweist. Vorzugsweise ist die Empfangsstation als ein WLAN-Router ausgebildet. Insbesondere weist die Alarmanlage mehrere Alarmeinrichtungen auf, die untereinander und mit der Empfangsstation über WLAN verbunden sind.

Beispielsweise können die Alarmeinrichtungen und die Empfangsstation innerhalb eines weitläufigen Gebäudekomplexes an unterschiedlichen Orten angeordnet sein. Ein Alarmsignal einer Alarmeinrichtung, die in einem Gebäudeabschnitt angeordnet ist, wird dann an die anderen Alarmeinrichtungen und an die Empfangsstation weitergeleitet. So wird es ermöglicht, dass Personen auch über weite Strecken und/oder am anderen Ende des Gebäudekomplexes über die Gefahrensituation informiert werden können. Nahezu zeitgleich werden die Informationen durch die mit dem Internet verbundene Empfangsstation an die Zieladressen übermittelt.

Denkbar ist ebenfalls, dass eine Person in einem Raum des Gebäudekomplexes eine Rücksetzmeldung von einer Alarmeinrichtung absetzt und somit über die WLAN-Verbindung auch alle weiteren Alarmeinrichtungen im Gebäudekomplex rücksetzen kann. Optional kann die Rücksetzmeldung über die Kopplung der Empfangsstation mit dem Internet an die oder weitere Zieladressen übermittelt werden.

Es versteht sich, dass die Alarmanlage und/oder die Alarmeinrichtungen auch passiv bleiben können, also die Pull-Funktion unterstützen, und die oder weitere Zieladressen die Informationen über die Kopplung mit dem Internet abrufen.

Weitere Merkmale, Vorteile und Wirkungen der Erfindung ergeben sich aus der nachfolgenden Beschreibung bevorzugter Ausführungsbeispiele der Erfindung, sowie den beigefügten Figuren. Dabei zeigen:

Figur 1	eine Strukturdarstellung einer Alarmeinrichtung als ein Ausführungsbeispiel der Erfindung;
Figur 2	einen Übertragungsweg der Informationen der Alarmeinrichtung aus Fig. 1;
Figur 3	einen alternativen Übertragungsweg zur Darstellung aus Fig. 2
Figur 4	Übermittlungsmöglichkeiten der Informationen der Alarmeinrichtung aus Fig. 1
Figur 5	Alarmanlage mit drei Alarmeinrichtungen nach Fig. 1 und einer Empfangstation.

Einander entsprechende oder gleiche Teile sind in den Figuren jeweils mit gleichen Bezugszeichen versehen.

Ein bevorzugtes Ausführungsbeispiel der Erfindung ist in der Fig. 1 gezeigt, in der eine Blockdarstellung einer Alarmeinrichtung 1 dargestellt ist. Die Alarmeinrichtung 1 ist als ein batteriebetriebener Rauchmelder ausgebildet und ist in einem Gehäuse 2 integriert, das zu einer Decken- oder Wandmontage ausgebildet ist. Das Gehäuse 2 weist eine Außen- und eine Innenseite auf, wobei die Außenseite für Personen in der Umgebung der Alarmeinrichtung 1 sichtbar angeordnet ist.

Die Alarmeinrichtung 1 umfasst eine Kommunikationsschnittstelle 3 und eine Konfigurationsschnittstelle 4, wobei die Konfigurationsschnittstelle 4 von der

Außenseite des Gehäuses 2 zugänglich angeordnet ist. Des Weiteren umfasst die Alarmeinrichtung 1 eine Sensoreinheit 5, eine Auswerteeinheit 6, eine Speichereinheit 7, eine Steuereinheit 8, eine Signaleinheit 9 und einen elektronischen Schalter 10. Die Signaleinheit 9 umfasst eine Warnleuchte und einen Alarmtongenerator und ist an der Außenseite des Gehäuses 2 angeordnet.

Die Kommunikationsschnittstelle 3 ist als eine WLAN- Schnittstellerealisiert, die dazu ausgebildet ist, einen Zugang und/oder eine Verbindung zwischen der Alarmeinrichtung 1 und dem öffentlichen Internet A herzustellen. Die Verbindung kann beispielsweise über einen nicht-dargestellten WLAN-Router erfolgen.

In einem alternativen Ausführungsbeispiel der Erfindung ist die Kommunikationsschnittstelle 3 als eine Mobilfunkschnittstelle ausgebildet, über die die Verbindung zum öffentlichen Internet A hergestellt wird. Möglich ist auch eine doppelte Schnittstelle, die sowohl eine Mobilfunknetz- als auch eine WLAN-Funktion bereitstellt.

Die Steuereinheit 8 steuert den elektronischen Schalter 10 an, um eine Stromversorgung der Alarmeinrichtung 1 mit einer Batterie zu aktivieren und diese von einem Ruhezustand in einen Übertragungszustand zu versetzen.

Die Konfigurationsschnittstelle 4 ist als eine USB- Schnittstelle ausgebildet und zur Übertragung von Übertragungsmodalitäten C geeignet. Die Konfigurationsschnittstelle 4 ermöglicht einen Anschluss eines Rechners, mit dem als Übertragungsmodalitäten u.a. Zieladressen B und Verbindungs- und Verschlüsselungsdaten der Internetverbindung eingestellt werden können.

Die Sensoreinheit 5 ist zur Erfassung von Umgebungsparametern, die auf einen umgebungsspezifischen Zustand D hinweisen. Zu den Umgebungsparametern zählt u. a. eine erhöhte Rauchpartikelkonzentration in einer Umgebungsluft, eine erhöhte Temperatur, eine optische Emission von Flammen oder Glut, die auf einen Brand hinweisen.

Die Alarmeinrichtung 1 erfasst Funktionsparameter, die einen einrichtungsspezifischen Zustand E angeben. Die Funktionsparameter umfassen

z.B. einen schwacher Batteriestatus der Alarmeinrichtung 1, der auf einen Servicezustand hinweist.

Die Auswerteeinheit 6 ist zur Auswertung der umgebungs- und einrichtungsspezifischen D; E Zustände ausgebildet. Sie erkennt Ereignisfälle F, wie z.B. eine Gefahren- oder Normalsituation und/oder ob ein Wartungs- oder Reparaturservice für die Alarmeinrichtung 1 nötig ist.

Die Speichereinheit 7 speichert Informationen G über die von der Auswerteeinheit 6 erkannten Ereignisfälle F. Die Informationen G umfassen Alarmsignale, Entwarnungssignale und/oder Statusprotokolle. Die Statusprotokolle weisen Signale auf, die eine Funktionsfähigkeit der Alarmeinrichtung 1 angeben. So enthalten die Statusprotokolle z.B. Funktions- und/oder Servicesignale der Alarmeinrichtung 1.

Wertet die Auswerteeinheit 6 einen umgebungsspezifischen Zustand aus, der auf einen Brand hinweist, so speichert die Speichereinheit 7 ein Alarmsignal. Weist der umgebungsspezifische Zustand auf eine Normalsituation hin, so speichert die Speichereinheit ein Entwarnungssignal. Bei der Auswertung der einrichtungsspezifischen Zustände, die z.B. auf einen schwachen Batteriestand oder auf eine Beeinträchtigung der Sensoreinheit 5 durch Verschmutzung hinweisen, speichert die Speichereinheit 7 ein Statusprotokoll mit Servicesignalen. Dahingegen enthält das Statusprotokoll Funktionssignale, wenn die Alarmeinrichtung 1 in ihrer Funktion nicht beeinträchtigt ist und problemlos arbeitet.

Die Steuereinheit 8 ist zur Ansteuerung der Signaleinheit 9 ausgebildet. Erkennt die Auswerteeinheit 6 eine Gefahrensituation, wie z.B. eine verstärkte Rauchentwicklung in der Umgebungsluft, so steuert die Steuereinheit 8 die Signaleinheit 9 an, so dass die Warnleuchte aufleuchtet und der Alarmton ertönt.

Die Steuereinheit 8 steuert nahezu zeitgleich zur Signaleinheit 9 die Kommunikationsschnittstelle 3 an, um die Verbindung zum Internet A zu aktivieren und die Informationen G an die Zieladressen B zu übertragen.

Fig. 2 zeigt einen Übertragungsweg der Informationen G der Alarmeinrichtung 1 aus Fig. 1. Die Alarmeinrichtung 1 ist über die Kommunikationsschnittstelle 3 mit dem öffentlichen Internet A verbunden und überträgt die Informationen G in dem Ereignisfall F aktiv an die konfigurierten Zieladressen B. Die Alarmeinrichtung 1 setzt dabei eine Push-Funktion um, da sie die Informationen G selbstständig an die Zieladressen B versendet.

Fig. 3 zeigt einen alternativen Übertragungsweg der Informationen G der Alarmeinrichtung 1 aus Fig. 1. Die Alarmeinrichtung 1 ist über die Kommunikationsschnittstelle 3 mit dem Internet A verbunden. Die Zieladressen B rufen z.B. turnusmäßig die gespeicherten Informationen G der Alarmeinrichtung 1 ab, wobei die Alarmeinrichtung 1 selbst passiv bleibt und eine Pull-Funktion unterstützt. Durch die Pull-Funktion haben die Zieladressen B Zugriff auf die Informationen G.

Fig. 4 zeigt weitere Übermittlungsmöglichkeiten der Informationen G der Alarmeinrichtung 1 aus Fig. 1. Die Kommunikationsschnittstelle 3 ist dazu ausgebildet, die Informationen G über das Internet A auf einen Server der Zieladressen B zu übermitteln. Entsprechend der Konfigurationseinstellungen werden die Informationen G als eine E-Mail H, eine SMS K und/oder ein Voice-Mail L ausgegeben. Die E-Mail H und die SMS K werden auf einem Bildschirm eines Computers oder eines mobilen Gerätes, wie z.B. eines Mobiltelefons, ausgegeben. Die Voice- Mail L erfolgt üblicherweise auf einen Telefonanschluss, insbesondere einen Festnetzanschluss.

Fig. 5 zeigt eine Alarmanlage 11, die drei Alarmeinrichtungen 1a; 1b; 1c und eine Empfangsstation 12 umfasst. Die Alarmeinrichtungen 1 sind über WLAN untereinander und mit der Empfangsstation 12 verbunden. Die Empfangsstation 12 ist als WLAN-Router ausgebildet und stellt eine Kopplung der Alarmeinrichtungen 1 mit dem öffentlichen Internet A her, wodurch die Push- und/oder Pull-Funktion der Alarmeinrichtung 1 bereitgestellt wird.

Ansprüche

1. Alarmeinrichtung (1) zur Erkennung und Mitteilung von umgebungs- und/oder einrichtungsspezifischen Zuständen,

   mit einer Kommunikationsschnittstelle (3) zur kabellosen Übertragung von Informationen (G) an eine oder mehrere Zieladressen (B),

   dadurch gekennzeichnet, dass

   die Kommunikationsschnittstelle programmtechnisch und/oder schaltungstechnisch ausgebildet ist, einen Zugang zum öffentlichen Internet (A) herzustellen und/oder aufrechtzuerhalten, um die Informationen (G) an die eine oder mehrere Zieladressen (B) zu übertragen.

2. Alarmeinrichtung (1) nach Anspruch 1, dadurch gekennzeichnet, dass die Alarmeinrichtung (1) als ein Rauch- und/oder Brandmelder in einem Gehäuse (2), insbesondere zur Decken- oder Wandmontage, ausgebildet ist.

3. Alarmeinrichtung (1) nach Anspruch 1 oder 2, dadurch gekennzeichnet, dass die Kommunikationsschnittstelle (3) als eine WLAN-Schnittstelle und/oder als eine Mobilfunkschnittstelle ausgebildet ist.

4. Alarmeinrichtung (1) nach einem der vorhergehenden Ansprüche, dadurch gekennzeichnet, dass die Übertragung der Informationen (G) als eine E-Mail (H), SMS (K) und/oder als ein Voice-Mail (L) erfolgt.

5. Alarmeinrichtung (1) nach einem der vorhergehenden Ansprüche, gekennzeichnet durch eine Konfigurationsschnittstelle (4) zur Übermittlung von Übertragungsmodalitäten (C).

6. Alarmeinrichtung (1) nach einem der vorhergehenden Ansprüche, dadurch gekennzeichnet dass die Alarmeinrichtung (1) zur aktiven

Übermittlung der Informationen (G) an mindestens eine Zieladresse (B) ausgebildet ist.

7. Alarmeinrichtung (1) nach einem der vorhergehenden Ansprüche, gekennzeichnet durch eine Speichereinheit (7) zur Speicherung der Informationen (G), wobei die Informationen (G) von mindestens einer Zieladresse (B) abrufbar sind und/oder abgerufen werden.

8. Alarmeinrichtung (1) nach einem der vorhergehenden Ansprüche, dadurch gekennzeichnet dass die Informationen (G) Alarmsignale und/oder Entwarnungssignale umfassen.

9. Alarmeinrichtung (1) nach einem der vorhergehenden Ansprüche, dadurch gekennzeichnet, dass die Informationen (G) ein oder mehrere Statusprotokolle umfassen.

10. Alarmeinrichtung (1) nach Anspruch 9, dadurch gekennzeichnet, dass die Statusprotokolle Funktions- und/oder Servicesignale der Alarmeinrichtung (1) umfassen.

11. Alarmeinrichtung (1) nach einem der vorhergehenden Ansprüche, dadurch gekennzeichnet, dass der Zugang zum öffentlichen Internet (A) über ein Mobilfunknetz erfolgt.

12. Alarmanlage (11) mit mindestens einer Alarmeinrichtung (1) nach einem der vorhergehenden Ansprüche und mit einer Empfangsstation (12), wobei die Empfangsstation (12) eine Kopplung mit dem öffentlichen Internet (A) und/oder dem Mobilfunknetz aufweist.

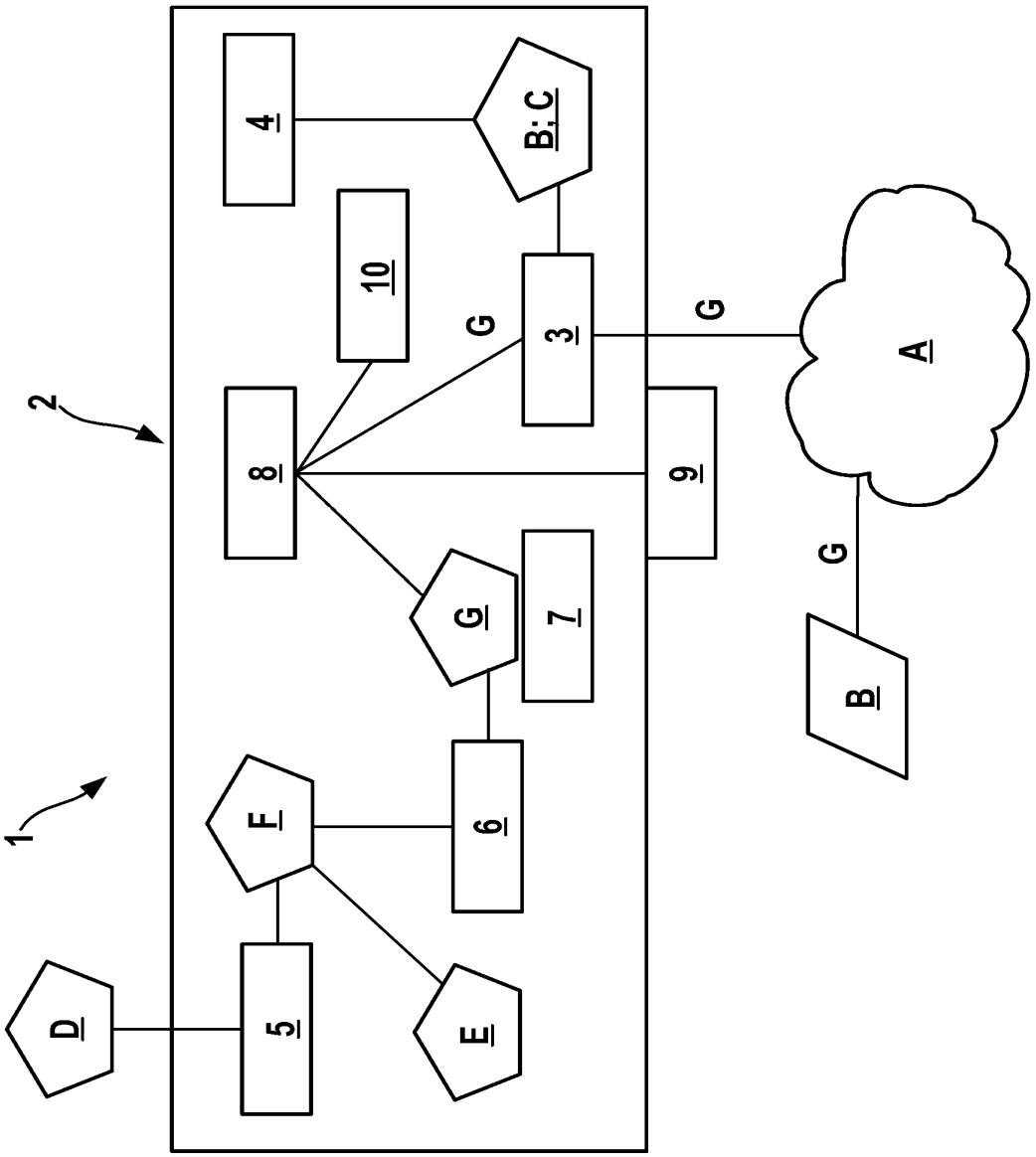


Fig. 1

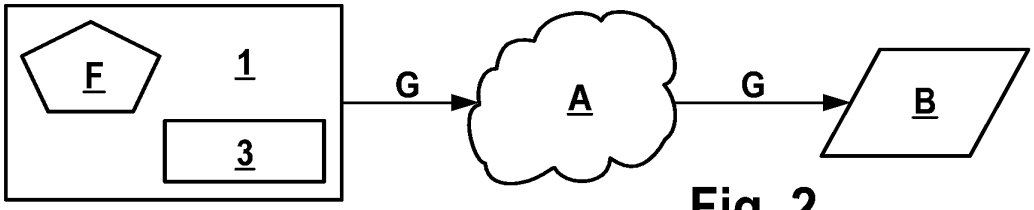


Fig. 2

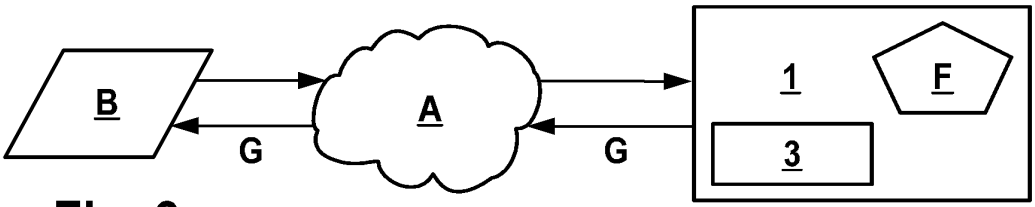


Fig. 3

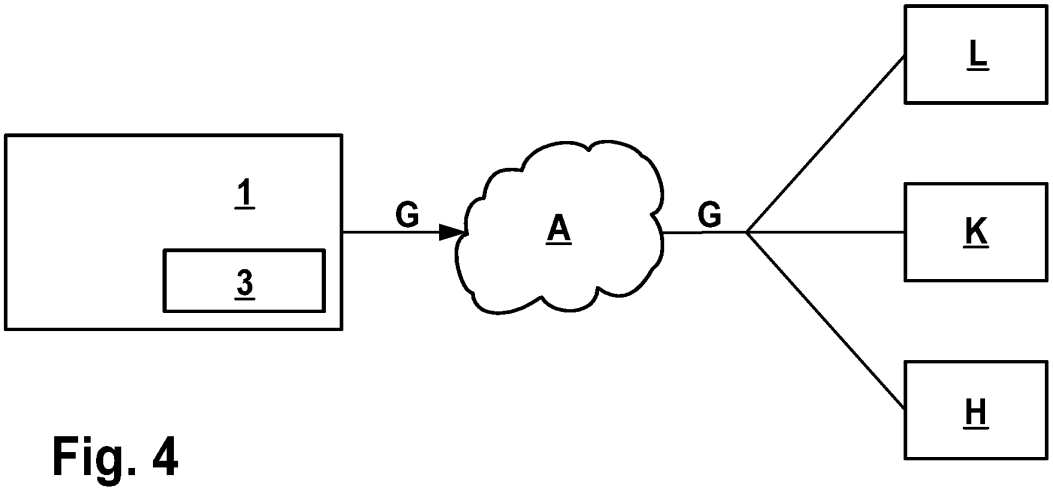


Fig. 4

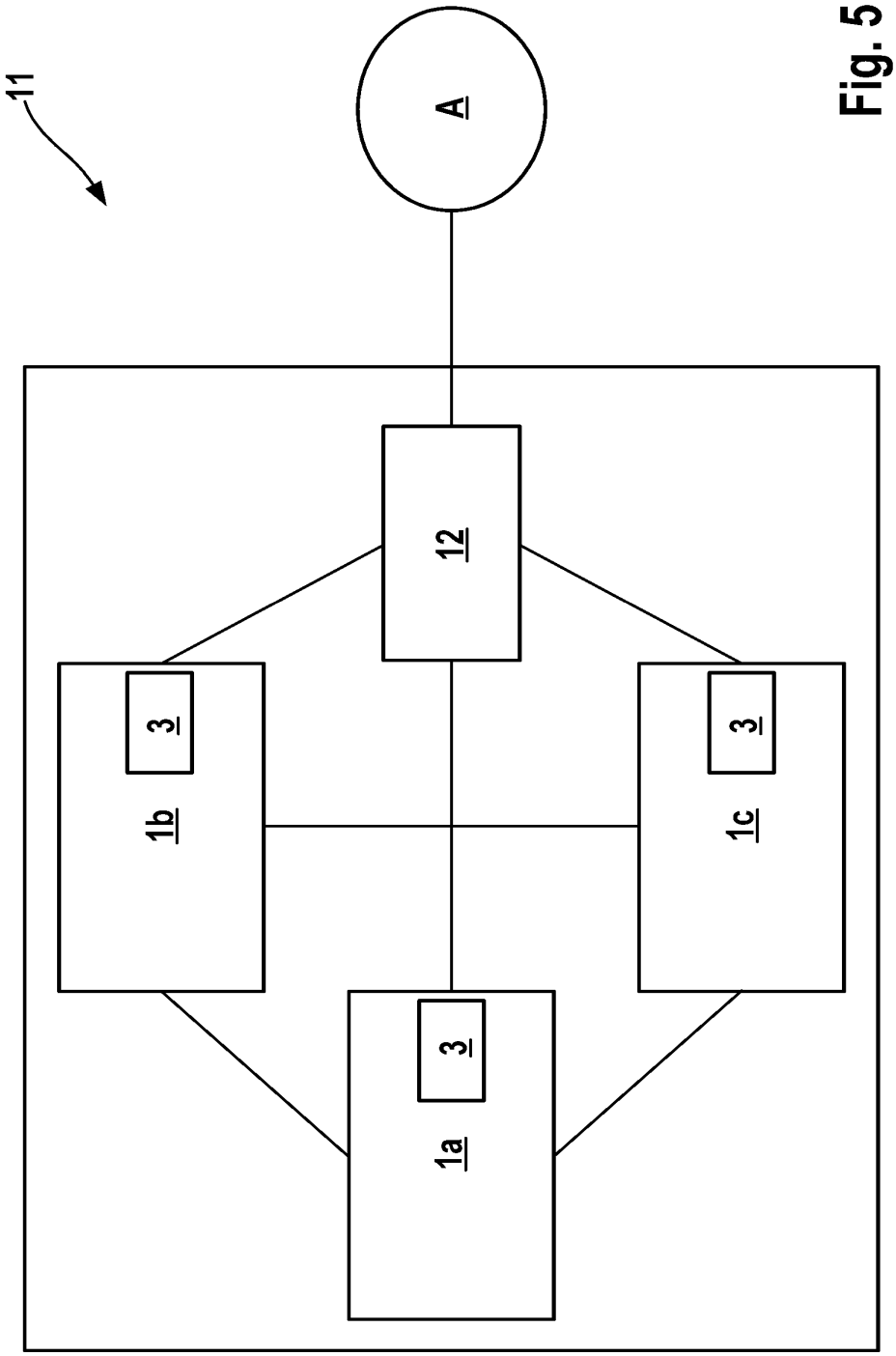


Fig. 5

INTERNATIONAL SEARCH REPORT

International application No
PCT/EP2010/062722

A. CLASSIFICATION OF SUBJECT MATTER
INV. G08B25/10
ADD.

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
G08B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)
EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2007/063833 A1 (KATES LAWRENCE [US]) 22 March 2007 (2007-03-22) * abstract figures 1-10 page 1, paragraph 6 page 2, paragraph 26 page 3, paragraphs 27,29,35 page 4, paragraph 35	1-12
X	WO 01/37589 A1 (TRIGUARD GROUP LLC [US]; LAYTON PAMELA G [US]; CRAWFORD KEITH D [US];) 25 May 2001 (2001-05-25) * abstract figures 1-12 page 12, paragraphs 10,11 page 13, paragraph 1-3 page 16, paragraph 2 page 19, paragraph 1	1-12

☐ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

* Special categories of cited documents :

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"&" document member of the same patent family

Date of the actual completion of the international search	Date of mailing of the international search report
18 October 2010	27/10/2010

Name and mailing address of the ISA/	Authorized officer
European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Fax: (+31-70) 340-3016	Coffa, Andrew

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INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No
PCT/EP2010/062722

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2007063833 A1	22-03-2007	AU 2006292764 A1	29-03-2007
		CA 2623003 A1	29-03-2007
		CN 101292273 A	22-10-2008
		EP 1927090 A1	04-06-2008
		JP 2009509237 T	05-03-2009
		KR 20080045293 A	22-05-2008
		US 2007229237 A1	04-10-2007
		WO 2007035219 A1	29-03-2007
WO 0137589 A1	25-05-2001	AU 1621401 A	30-05-2001
		US 6829478 B1	07-12-2004

INTERNATIONALER RECHERCHENBERICHT

Internationales Aktenzeichen
PCT/EP2010/062722

A. KLASSIFIZIERUNG DES ANMELDUNGSGEGENSTANDES
INV. G08B25/10
ADD.

Nach der Internationalen Patentklassifikation (IPC) oder nach der nationalen Klassifikation und der IPC

B. RECHERCHIERTE GEBIETE

Recherchierter Mindestprüfstoff (Klassifikationssystem und Klassifikationssymbole)
G08B

Recherchierte, aber nicht zum Mindestprüfstoff gehörende Veröffentlichungen, soweit diese unter die recherchierten Gebiete fallen

Während der internationalen Recherche konsultierte elektronische Datenbank (Name der Datenbank und evtl. verwendete Suchbegriffe)
EPO-Internal

C. ALS WESENTLICH ANGESEHENE UNTERLAGEN

Kategorie*	Bezeichnung der Veröffentlichung, soweit erforderlich unter Angabe der in Betracht kommenden Teile	Betr. Anspruch Nr.
X	US 2007/063833 A1 (KATES LAWRENCE [US]) 22. März 2007 (2007-03-22) * Zusammenfassung Abbildungen 1-10 Seite 1, Absatz 6 Seite 2, Absatz 26 Seite 3, Absätze 27,29,35 Seite 4, Absatz 35 -----	1-12
X	WO 01/37589 A1 (TRIGUARD GROUP LLC [US]; LAYTON PAMELA G [US]; CRAWFORD KEITH D [US];) 25. Mai 2001 (2001-05-25) * Zusammenfassung Abbildungen 1-12 Seite 12, Absätze 10,11 Seite 13, Absatz 1-3 Seite 16, Absatz 2 Seite 19, Absatz 1 -----	1-12

☐ *Weitere Veröffentlichungen sind der Fortsetzung von Feld C zu entnehmen* ☒ *Siehe Anhang Patentfamilie*

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"&" Veröffentlichung, die Mitglied derselben Patentfamilie ist

Datum des Abschlusses der internationalen Recherche	Absendedatum des internationalen Recherchenberichts
18. Oktober 2010	27/10/2010

Name und Postanschrift der Internationalen Recherchenbehörde	Bevollmächtigter Bediensteter
Europäisches Patentamt, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tel. (+31-70) 340-2040, Fax: (+31-70) 340-3016	Coffa, Andrew

Formblatt PCT/ISA/210 (Blatt 2) (April 2005)

INTERNATIONALER RECHERCHENBERICHT

Angaben zu Veröffentlichungen, die zur selben Patentfamilie gehören

Internationales Aktenzeichen
PCT/EP2010/062722

Im Recherchenbericht angeführtes Patentdokument	Datum der Veröffentlichung	Mitglied(er) der Patentfamilie	Datum der Veröffentlichung
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Amazon EX1003 Page 281

Electronic Patent Application Fee Transmittal

Application Number:	15992221
Filing Date:	30-May-2018
Title of Invention:	SYSTEM AND METHOD FOR SERVER BASED CONTROL
First Named Inventor/Applicant Name:	Yehuda BINDER
Filer:	Yehuda Binder/Dorit Binder
Attorney Docket Number:	BINDER-014-US7

Filed as Small Entity

Filing Fees for Utility under 35 USC 111(a)

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Miscellaneous:				
SUBMISSION- INFORMATION DISCLOSURE STMT	2806	1	130	130
		Total in USD ($)		**130**

Electronic Acknowledgement Receipt	
EFS ID:	43068394
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:	23-JUN-2021
Filing Date:	30-MAY-2018
Time Stamp:	15:23:40
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	DA
Payment was successfully received in RAM	$130
RAM confirmation Number	E20216MF24003198
Deposit Account	
Authorized User	
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:	

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)	IDS14.pdf	1035584 52c9bd35eac88cee262804347ba76e969ce4a55b	no	6
Warnings:					
Information:					
2	Foreign Reference	WO2011051022.pdf	889560 b6e306126046238fc635870bf47b03cfd4234832	no	23
Warnings:					
Information:					
3	Fee Worksheet (SB06)	fee-info.pdf	30014 9de1ac328380ea9289560b289c580452928f46e5	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	1955158		

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.

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

PTO/SB/08a (02-18)
Approved for use through 11/30/2020. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(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

U.S.PATENTS Remove

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	7019646	B1	2006-03-28	Noel Woodard	

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U.S.PATENT APPLICATION PUBLICATIONS Remove

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	20120112970	A1	2012-05-10	Ruben Caballero	
	2	20120303150	A1	2012-11-29	Meenakshi Sundaram Krishnaswamy	

If you wish to add additional U.S. Published Application citation information please click the Add button. Add

FOREIGN PATENT DOCUMENTS Remove

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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NON-PATENT LITERATURE DOCUMENTS Remove

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (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

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	TP-LINK User Guide TL-POE10R, PoE Splitter, Rev. 3.0.0 Document Number – 7106503409, (Published 2010) (10 pages)	

If you wish to add additional non-patent literature document citation information please click the Add button Add

EXAMINER SIGNATURE

Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[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.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (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

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)	2020-09-29
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.**

Privacy Act Statement

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.

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.

2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.

3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.

4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).

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 Patent Application Fee Transmittal

Application Number:	15992221
Filing Date:	30-May-2018
Title of Invention:	SYSTEM AND METHOD FOR SERVER BASED CONTROL
First Named Inventor/Applicant Name:	Yehuda BINDER
Filer:	Yehuda Binder/Dorit Binder
Attorney Docket Number:	BINDER-014-US7

Filed as Small Entity

Filing Fees for Utility under 35 USC 111(a)

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Miscellaneous:				
SUBMISSION- INFORMATION DISCLOSURE STMT	2806	1	130	130
		Total in USD ($)		**130**

Electronic Acknowledgement Receipt	
EFS ID:	40756384
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:	05-OCT-2020
Filing Date:	30-MAY-2018
Time Stamp:	11:55:09
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	DA
Payment was successfully received in RAM	$130
RAM confirmation Number	E202005B55363034
Deposit Account	
Authorized User	
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:	

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Non Patent Literature	TP-Link-TL-POE10R-PoE-Splitter-Manual.pdf	4494112 85a95ab6a9776c15c4fb4951878fa39997e2a9ff	no	10
Warnings:					
Information:					
2	Information Disclosure Statement (IDS) Form (SB08)	IDS13of40land40K.pdf	1034518 a96ad8111fbd6736a4bd733697d4746945e61588	no	4
Warnings:					
Information:					
3	Fee Worksheet (SB06)	fee-info.pdf	30014 f0f5657dff4d70d77771af33f21a6bf1a8055eb9	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	5558644		

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.

PTO/SB/08a (02-18)
Approved for use through 11/30/2020. 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	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

U.S.PATENTS Remove

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					

If you wish to add additional U.S. Patent citation information please click the Add button. Add

U.S.PATENT APPLICATION PUBLICATIONS Remove

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	20130121239	A1	2013-05-16	John Alson Hicks	
	2	20130048319	A1	2013-02-28	William E. Glaub	
	3	20120236748	A1	2012-09-20	Edwin B. Brownrigg	
	4	20120229283	A1	2012-09-13	Cameron MCKENNA	
	5	20110082599	A1	2011-04-07	Makarand Shinde	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (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

	6	20090051551	A1	2009-02-26	Hai D. Pham	
	7	20090042533	A1	2009-02-12	Karen D. Lontka	
	8	20080221715	A1	2008-09-11	Paul Krzyzanowski	
	9	20070262847	A1	2007-11-15	Cory L. Grabinger	
	10	20070169080	A1	2007-07-19	Larry Alan Friedman	
	11	20060265195	A1	2006-11-23	Jon A. Woodard	
	12	20050226201	A1	2005-10-13	Brian K. McMillin	
	13	20050154494	A1	2005-07-14	Osman Ahmed	
	14	20040217857	A1	2004-11-04	Gary Lennartz	
	15	20010024163	A1	2001-09-27	Thomas D. Petite	

If you wish to add additional U.S. Published Application citation information please click the Add button. Add

FOREIGN PATENT DOCUMENTS Remove

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (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

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							

If you wish to add additional Foreign Patent Document citation information please click the Add button Add

NON-PATENT LITERATURE DOCUMENTS Remove

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		

If you wish to add additional non-patent literature document citation information please click the Add button Add

EXAMINER SIGNATURE

Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[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.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (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

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)	2020-05-26
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.**

Privacy Act Statement

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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.

2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.

3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.

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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 Patent Application Fee Transmittal	
Application Number:	15992221
Filing Date:	30-May-2018
Title of Invention:	SYSTEM AND METHOD FOR SERVER BASED CONTROL
First Named Inventor/Applicant Name:	Yehuda BINDER
Filer:	Yehuda Binder/Dorit Binder
Attorney Docket Number:	BINDER-014-US7
Filed as Small Entity	
Filing Fees for Utility under 35 USC 111(a)	

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Miscellaneous:				
SUBMISSION- INFORMATION DISCLOSURE STMT	2806	1	120	120
		Total in USD ($)		**120**

Electronic Acknowledgement Receipt	
EFS ID:	39529534
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:	26-MAY-2020
Filing Date:	30-MAY-2018
Time Stamp:	09:45:50
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	DA
Payment was successfully received in RAM	$120
RAM confirmation Number	E20205P046096318
Deposit Account	
Authorized User	
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:	

File Listing:

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1	Information Disclosure Statement (IDS) Form (SB08)	IDS12-of-40J.pdf	1035076 5106592bbe3d86190cc52fa82036e7ffeb089937	no	5
Warnings:					
Information:					
2	Fee Worksheet (SB06)	fee-info.pdf	30082 2f5c2e803cb2f8412663a080c677267c51cffc36	no	2
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PTO/SB/08a (02-18)
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT
(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

U.S.PATENTS Remove

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	8615374	B1	2013-12-24	Frederick M. Discenzo	
	2	4472656	A	1984-09-18	CORNELIS FRANX	
	3	8244405	B2	2012-08-14	Imin Kao	
	4	5696879	A	1997-12-09	TROY L. CLINE	
	5	5077512	A	1991-12-31	HAROLD J. WEBER	

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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	20100281884	A1	2010-11-11	John Myron Rawski	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (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

	2	20120190292	A1	2012-07-26	Alan James Skrepcinski	
	3	20080291036	A1	2008-11-27	Robert Charles Richmond	
	4	20150222852	A1	2015-08-06	Ronald Carter	
	5	20100187832	A1	2010-07-29	Scott T. Holland	
	6	20090189981	A1	2009-07-30	Jon Siann	
	7	20130151200	A1	2013-06-13	Siew Kok Hui	
	8	20100039253	A1	2010-02-18	SHIHUA ZANG	
	9	20110047874	A1	2011-03-03	Scott B. Lowder	
	10	20090033522	A1	2009-02-05	Peter Nils Skillman	
	11	20180242859	A1	2018-08-30	Steven Francis LeBoeuf	
	12	20110282168	A1	2011-11-17	Alan Robert Weiss	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (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

	13	20130211858	A1	2013-08-15	Peter Ohnemus	
	14	20100195601	A1	2010-08-05	Yan Zhang	
	15	20120265026	A1	2012-10-08	Mohammad Shenasa	
	16	20020112726	A1	2002-08-22	Matthew F. Schmidt	
	17	20060206155	A1	2006-09-14	Tamir Ben-David	
	18	20110050216	A1	2011-03-03	Robert Thomas STONE	
	19	20090105605	A1	2009-04-23	Marcio Marc Abreu	
	20	20120179067	A1	2012-07-12	William Oren Wekell	
	21	20120130203	A1	2012-05-24	Stergios STERGIOU	
	22	20110034912	A1	2011-02-10	Bassel de Graff	
	23	20070208390	A1	2007-09-06	Jeffrey A. Von Arx	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (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

	24	20090005720	A1	2009-01-01	Lev Ludin	
	25	20100100004	A1	2010-04-22	Eugenio Johannes Wilhelmus van Someren	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (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

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)	2020-03-08
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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Electronic Patent Application Fee Transmittal

Application Number:	15992221
Filing Date:	30-May-2018
Title of Invention:	SYSTEM AND METHOD FOR SERVER BASED CONTROL
First Named Inventor/Applicant Name:	Yehuda BINDER
Filer:	Yehuda Binder/Dorit Binder
Attorney Docket Number:	BINDER-014-US7

Filed as Small Entity

Filing Fees for Utility under 35 USC 111(a)

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Miscellaneous:				
SUBMISSION- INFORMATION DISCLOSURE STMT	2806	1	120	120
		Total in USD ($)		**120**

Electronic Acknowledgement Receipt	
EFS ID:	38855118
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:	13-MAR-2020
Filing Date:	30-MAY-2018
Time Stamp:	07:14:04
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	DA
Payment was successfully received in RAM	$120
RAM confirmation Number	E20203C814259722
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1	Information Disclosure Statement (IDS) Form (SB08)	IDS11.pdf	1035688 8a814b3ebd0063e2cc456eb4e0af9155754492a1	no	6
Warnings:					
Information:					
2	Fee Worksheet (SB06)	fee-info.pdf	30074 ba7915587c8454955611452ed8fd656738d85d99	no	2
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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 02/25/2020

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
02/25/2020	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.

UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

Ex parte YEHUDA BINDER ET AL.

Appeal 2020-002710
Application 15/992,221
Technology Center 2400

APPEAL DOCKETING NOTICE

The Patent Trial and Appeal Board received the appeal in the above-identified application from the Technology Center on February 25, 2020, and has assigned it the appeal number indicated above.

The recipient of this notice is reminded of its ongoing duty, within 20 days of any change during the proceeding, to update its mandatory notices to identify the real party-in-interest and each judicial or administrative proceeding that could affect, or be affected by, the Board proceeding. 37 C.F.R. § 41.8. For example, another docketed appeal in a related application may have the potential to affect, or be affected by, the Board proceeding.

In all future communications regarding this appeal, please include both the application number and the appeal number. Telephone inquiries can be made by calling 571-272-9797 and referencing the appeal number listed above. The mailing address for the Board is:

PATENT TRIAL and APPEAL BOARD
UNITED STATES PATENT AND TRADEMARK OFFICE
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
BEFORE THE PATENT TRIAL AND APPEALS BOARD (PTAB)

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	)	February 24, 2020
	)	

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

Dear Honorable Commissioner:

Reply to Examiner Answer

Appellant submits this reply to the Board of Patent Appeals and Interferences response to the Examiner's Answer ("Answer") dated February 18, 2020 on appeal from the decision of the Examiner of Group Art Unit 2456 dated October 31, 2019, non-finally rejecting claims 1-64 under 35 U.S.C. 102(b) and 103(a) [hereinafter 'Action' or 'Final action'], after a prosecution reopening.

Regarding Argument #1: Improper rejection – Unclear conclusory rejection

The Appellant repeats that the Action is unclear, and in particular it is not clear which elements in the Sharood reference are equated to the recited elements in the claims, as required by the rules in general, and in an anticipation rejection in particular.

Argument #2: Improper picking and choosing

Regarding (a) and (b) – The Answer fails to address these arguments. The Appellant repeats that the Action improperly combines features from the retrofit plug 125 and the appliance 130, which are described as different and distinct entities in the Sharood reference.

Regarding (c) – First, the Answer seems to admit that the retrofit plug 125 and the appliance 130 are different and distinct entities in the Sharood reference. Second, the Answer seems to be based on Figure 6b, which **only** discloses the plug 125 without the appliance 130, and not any combination thereof as stated in the Answer. Third, the Answer states that the Sharood reference teaches the "working combination" of the plug 125 and the appliance 130, since '*the retrofit plug 125 allows control of the appliance*'. It is respectfully submitted that even if the two devices works together or one controls the other it does NOT render them a single device in general, and in a single enclosure as recited in claim 1 in particular.

Argument #3: The Sharood reference fails to disclose the limitations of "a current sensor coupled to the AC connector for measuring an AC current consumed by the appliance; …

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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.".

The Appellant repeats that the cited 'monitoring' is distinct from the recited 'measuring'. The block name 'measure and transmit circuit 620' is just a general name, and does not describe the actual functionality, and in particular does not teach actual current measuring.

Claim 6.

Argument #4: The Sharood reference fails to disclose the limitations of "… *the appliance comprises a dishwasher, a food blender, a beverage maker, or a coffeemaker.*".

Regarding (a) – The Answer states that "*the claims are just claiming other appliances without specifying their functionality*" – It is respectfully submitted that the functionality of 'dishwasher', 'food blender' and the other recited appliances is known and clear to a person in the art. Further, the Answer in this part (a), in part (b) states that "*the claims are just claiming other appliances* …", hence seems to admit that the recited appliances are not disclosed in the Sharood reference.

Regarding (b) – The Answer is based on that "*The claims and arguments do not further define how the appliances are different from Sharood et al.'s home appliances in terms of consuming power … and in term of being monitored and controlled remotely, …".* This argument is not clear. The fact that a device shares some functionalities with another device does not render any obviousness in general, and any anticipation in particular.

Claims 9, 10, 32, 33, 34, 36, 55, and 57.

Argument #5: Improper picking and choosing

Regarding (a) – First, the Answer seems to agree that the rejection is based on the Retrofit Damper 900 that is different from the retrofit plug 125 relied upon in claim 1 rejection. Second, the Answer that that "**Similar** *to the Retrofit Plug, the damper 900 for smart HVAC control … measure and transmits sensor data …*" (Emphasis added). The fact that two devices share some functionalities does not render any obviousness in general, and any anticipation in particular. Further, 'similarity' is not applicable in an anticipation rejection.

Regarding (b) – The Answer is based on that "*The claims and arguments do not further define how the appliances are different from Sharood et al.'s home appliances in terms of consuming power … and in term of being monitored and controlled remotely, …".* This argument is not clear. The fact that a device shares some functionalities with another device does not render any obviousness in general, and any anticipation in particular.

Claim 34.

Argument #6: Recited limitation not taught by the Sharood reference

The Answer states that "The rejection … states that the claimed temperature sensor is **similar** to the temperature sensor 1060 …" (Emphasis added). It is noted that 'similarity' is not applicable in a rejection in general, and in an anticipation rejection in particular.

Further, the Answer states that "*The claims and arguments are claiming variations* ***without specifying their indifference functionality*** *to the cited temperature sensor*" (Emphasis added). It is respectfully submitted that no rules are known to the Appellant, and no such rules are cited by the Answer, requiring any 'specifying of indifference functionality', in particular in an anticipation rejection. Further, the claim clearly defines different structure.

Argument #7: Improper picking and choosing

Regarding (a) – First, the Answer seems to agree that the rejection is based on the Retrofit Damper 900 that is different from the retrofit plug 125 relied upon in claim 1 rejection. Second, the Answer that that "**Similar** *to the Retrofit Plug, the damper 900 … measure and transmits sensor data …*" (Emphasis added). The fact that two devices share some functionalities does not render any obviousness in general, and any anticipation in particular. Further, 'similarity' is not applicable in an anticipation rejection.

Regarding (b) – The Answer states that "*The claims and arguments* ***do not further define how the appliances are different from Sharood et al.'s home appliances*** *in terms of consuming power …*" (Emphasis added). It is respectfully submitted that no rules are known to the Appellant, and no such rules are cited by the Answer, requiring any 'defining of different functionality', in particular in an anticipation rejection. Further, the claim clearly defines different structure and functionality.

Claim 36.

Argument #8: Improper picking and choosing

Regarding (a) – First, the Answer seems to agree that the rejection is based on the Retrofit Damper 900 that is different from the retrofit plug 125 relied upon in claim 1 rejection. Second, the Answer that that "**Similar** *to the Retrofit Plug, the damper 900 … measures and transmits sensor data …*" (Emphasis added). The fact that two devices share some functionalities does not render any obviousness in general, and any anticipation in particular. Further, 'similarity' is not applicable in an anticipation rejection.

The Answer states that "*The arguments* ***do not differentiate between these combinations …".*** It is respectfully submitted that the burden is on the Examiner to show that it is the same embodiment in an anticipation rejection.

Regarding (b) – The Answer states that "*The claims and arguments* ***do not further define how the appliances are different from Sharood et al.'s home appliances*** *in terms of consuming power …*" (Emphasis added). It is respectfully submitted that no rules are known to the Appellant, and no such rules are cited by the Answer, requiring any 'defining of different functionality', in particular in an anticipation rejection. Further, the claim clearly defines different structure and functionality.

Claim 54.

Argument #9: Improper rejection

Regarding (a) – The claim and the arguments relate to the recited 'actuator', while the Answer is focused on the 'power switching device'.

Amazon EX1003 Page 320

Regarding (b) – The claimed actuator is in the claimed device, while the cited paragraphs relate to switching a functionality in the appliance that is external to the equated retrofit plug.

Claim 55.

Argument #10: Improper picking and choosing

Regarding (a) – First, the Answer seems to agree that the rejection is based on the Retrofit Damper 900 that is different from the retrofit plug 125 relied upon in claim 1 rejection. Second, the Answer that that "**Similar** *to the Retrofit Plug, the damper 900 … measures and transmits sensor data* …" (Emphasis added). The fact that two devices share some functionalities does not render any obviousness in general, and any anticipation in particular. Further, 'similarity' is not applicable in an anticipation rejection.

Third, the Answer states that "*The arguments do not differentiate between these combinations* …". It is respectfully submitted that no rules are known to the Appellant, and no such rules are cited by the Answer, requiring any 'differentiating between embodiments', in particular in an anticipation rejection. It is respectfully submitted that the burden is on the Examiner to show that it is the same embodiment in an anticipation rejection. Furthermore, the claim clearly defines different structure and functionality.

Regarding (b) – The Answer states that "*The claims and arguments* ***do not further define how the appliances are different from Sharood et al.'s home appliances*** *in terms of*

consuming power …" (Emphasis added). It is respectfully submitted that no rules are known to the Appellant, and no such rules are cited by the Answer, requiring any 'defining of different functionality', in particular in an anticipation rejection. Further, the claim clearly defines different structure and functionality.

Claim 56.

Argument #11: Improper picking and choosing

The Answer states that "*The claims and arguments* ***do not further define how the actuators are any different*** *…"* (Emphasis added). It is respectfully submitted that no rules are known to the Appellant, and no such rules are cited by the Answer, requiring any 'defining of different functionality', in particular in an anticipation rejection. Further, the claim clearly defines different structure and functionality.

Claim 57.

Argument #12: Improper picking and choosing

Regarding (a) – First, the Answer seems to agree that the rejection is based on the Retrofit Damper 900 that is different from the retrofit plug 125 relied upon in claim 1 rejection. Second, the Answer that that "**Similar** *to the Retrofit Plug, the damper 900 … measures and transmits sensor data …"* (Emphasis added). The fact that two devices share some functionalities does not render any obviousness in general, and any anticipation in particular. Further, 'similarity' is not applicable in an anticipation rejection.

Regarding (b) – The Answer states that "*The claims and arguments* ***do not further define how the appliances are different from Sharood et al.'s home appliances*** *in terms of consuming power …*" (Emphasis added). It is respectfully submitted that no rules are known to the Appellant, and no such rules are cited by the Answer, requiring any 'defining of different functionality', in particular in an anticipation rejection. Further, the claim clearly defines different structure and functionality.

Argument #14: Non-analogous references.

According to the Answer, the Sharood reference is in the field of "*a monitoring device connected to an appliance that connects with the power supply and wireless transceiver*", while the Legaspi reference is in the field of "*systems and methods for automatically disabling appliances using wireless transceiver upon occurrence of a safety event*". **Since the Answer itself provides two different field definitions, the reference are not analogous.**

Argument #15: Improper rejection – Unclear conclusory rejection.

The Answer does not address the arguments raised in the appeal brief, and only repeats the response to Argument #14. It is respectfully requested that the sustaining of the rejection by the PTAB of this claim should thus be considered as a new ground.

Regarding claim 8

Argument #16: Improper rationale for combination of the Sharood and Legaspi references.

Regarding (a) – The Answer does not address the arguments raised in the appeal brief, and only repeats the response to Argument #14. It is respectfully requested that the sustaining of the rejection by the PTAB of this claim should thus be considered as a new ground.

Regarding (b) – The Answer does not address the arguments raised in the appeal brief, and only repeats the response to Argument #14. It is respectfully requested that the sustaining of the rejection by the PTAB of this claim should thus be considered as a new ground.

Regarding claim 11

Argument #17: Improper rationale for combination of the Sharood and Legaspi references.

The Answer does not address the arguments raised in the appeal brief, and only repeats the response to Argument #14. It is respectfully requested that the sustaining of the rejection by the PTAB of this claim should thus be considered as a new ground.

Regarding claim 20

Argument #18: Improper rationale for combination of the Sharood and Legaspi references.

Regarding (a) – The Answer does not address the arguments raised in the appeal brief, and only repeats the response to Argument #14. It is respectfully requested that the sustaining of the rejection by the PTAB of this claim should thus be considered as a new ground.

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Regarding (b) – The Answer does not address the arguments raised in the appeal brief, and only repeats the response to Argument #14. It is respectfully requested that the sustaining of the rejection by the PTAB of this claim should thus be considered as a new ground.

Regarding (c) – The Answer does not address the arguments raised in the appeal brief, and only repeats the response to Argument #14. It is respectfully requested that the sustaining of the rejection by the PTAB of this claim should thus be considered as a new ground.

Regarding claim 21

Argument #19: Improper rationale for combination of the Sharood and Legaspi references.

The Answer does not address the arguments raised in the appeal brief, and only repeats the response to Argument #14 and the rejection in the Action. It is respectfully requested that the sustaining of the rejection by the PTAB of this claim should thus be considered as a new ground.

Regarding claim 23

Argument #20: Improper rationale for combination of the Sharood and Legaspi references.

The Answer does not address the arguments raised in the appeal brief, and only repeats the response to Argument #14 and the rejection in the Action. It is respectfully requested that the sustaining of the rejection by the PTAB of this claim should thus be considered as a new ground.

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Regarding claim 24

Argument #21: Improper rationale for combination of the Sharood and Legaspi references.

The Answer does not address the arguments raised in the appeal brief, and only repeats the response to Argument #14 and the rejection in the Action. It is respectfully requested that the sustaining of the rejection by the PTAB of this claim should thus be considered as a new ground.

Argument #22: Improper rationale for combination of the Sharood and Legaspi references.

The Answer does not address the arguments raised in the appeal brief, and only repeats the response to Argument #14 and the rejection in the Action. It is respectfully requested that the sustaining of the rejection by the PTAB of this claim should thus be considered as a new ground.

Argument #23: Non-analogous references.

The Answer only discuss the analogousness of the Sharood and Legaspi references, but fails to explain why the Sharood and Rada references are analogous. It is noted that the Rada reference is not in the field of "*a monitoring device connected to an appliance that connects with the power supply and wireless transceiver*" as defined for the Sharood reference.

Regarding claim 22

Argument #24: Improper rationale for combination of the Sharood and Rada references.

Regarding (a) – The Answer does not address the arguments raised in the appeal brief, and only discusses the analogousness of the Sharood and Legaspi references. It is respectfully requested that the sustaining of the rejection by the PTAB of this claim should thus be considered as a new ground.

Regarding (b) – The Answer does not address the arguments raised in the appeal brief, and only discusses the analogousness of the Sharood and Legaspi references, copied from part (a), and repeats the rejection as in the Action. It is respectfully requested that the sustaining of the rejection by the PTAB of this claim should thus be considered as a new ground.

Regarding claim 24

Argument #25: Improper rationale for combination of the Sharood and Rada references.

Regarding (a) – The Answer does not address the arguments raised in the appeal brief, and only discusses the analogousness of the Sharood and Legaspi references, and repeats the rejection as in the Action. It is respectfully requested that the sustaining of the rejection by the PTAB of this claim should thus be considered as a new ground.

Regarding (b) – The Answer does not address the arguments raised in the appeal brief, and only discusses the analogousness of the Sharood and Legaspi references, and repeats the rejection as in the Action. It is respectfully requested that the sustaining of the rejection by the PTAB of this claim should thus be considered as a new ground.

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Claims 25-28, 30-31, 35, and 37

Argument #26: Non-analogous references.

According to the Answer, the Sharood reference is in the field of "*a monitoring device connected to an appliance that connects with the power supply and wireless transceiver*", while the Kiko reference is in the field of "*a RF interface to add in various different types of wireless broadband access technologies to gain access to remote nodes*". **Since the Answer itself provides two different field definitions, the reference are not analogous. Further, clearly the Kiko reference is NOT in the field of** "*a monitoring device connected to an appliance that connects with the power supply and wireless transceiver*".

Argument #27: Improper rationale for combination of the Sharood and Kiko references.

Regarding (a) – The Answer does not address the arguments raised in the Appeal Brief, and only discusses the analogousness of the Sharood and Kiko references, copied from the response to Argument #26, and repeats the rejection as in the Action. It is respectfully requested that the sustaining of the rejection by the PTAB of this claim should thus be considered as a new ground.

Regarding (b) – The Answer does not address the arguments raised in the Appeal Brief, and only copy the response to part (a).

Regarding (c) – The Answer does not address the arguments raised in the Appeal Brief, and only copy the response to part (a).

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Claim 35.

Argument #28: Improper rationale for combination of the Sharood and Kiko references.

The Answer does not address the arguments raised in the Appeal Brief, and only discusses the analogousness of the Sharood and Kiko references, copied from the response to Argument #26, and repeats the rejection as in the Action. It is respectfully requested that the sustaining of the rejection by the PTAB of this claim should thus be considered as a new ground.

Claim 37.

Argument #29: Improper combination of the Sharood and Kiko references.

The Answer does not address the arguments raised in the Appeal Brief, and only discusses the analogousness of the Sharood and Kiko references, copied from the response to Argument #26, and repeats the rejection as in the Action. It is respectfully requested that the sustaining of the rejection by the PTAB of this claim should thus be considered as a new ground.

Argument #30: Improper rationale for combination of the Sharood and Kiko references.

The Answer does not address the arguments raised in the Appeal Brief, and only discusses the analogousness of the Sharood and Kiko references, copied from the response to Argument #26, and repeats the rejection as in the Action. It is respectfully requested that the sustaining of the rejection

by the PTAB of this claim should thus be considered as a new ground.

Claims 38-40, 42-43, and 47-50

Argument #31: Non-analogous references.

According to the Answer, the Sharood reference is in the field of "*a monitoring device connected to an appliance that connects with the power supply and wireless transceiver*", while the Hendrickson reference is in the field of "*sensors and consumer accessory devices that supplements functionality of appliance*". **Since the Answer itself provides two different field definitions, the reference are not analogous. Further, clearly the Hendrickson reference is NOT in the field of** "*a monitoring device connected to an appliance that connects with the power supply and wireless transceiver*", as defined for the Sharood reference that servers as the primary reference.

Argument #32: Improper rationale for combination of the Sharood and Hendrickson references.

Regarding (a) - The Answer does not address the arguments raised in the Appeal Brief, and only discusses the analogousness of the Sharood and Hendrickson references, copied from the response to Argument #31, and repeats the rejection as in the Action. It is respectfully requested that the sustaining of the rejection by the PTAB of this claim should thus be considered as a new ground.

Regarding (b) - The Answer does not address the arguments raised in the Appeal Brief, and only copy the response to part (a).

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Regarding (c) – The Answer does not address the arguments raised in the Appeal Brief, and only copy the response to part (a).

Claims 43, 48 and 50

Argument #33: Improper rationale

The Answer does not address the arguments raised in the Appeal Brief, and only copy the response to argument #31.

Claim 41

Argument #34: Non-analogous references.

According to the Answer, the Sharood reference is in the field of "*a monitoring device connected to an appliance that connects with the power supply and wireless transceiver*", while the Mehta reference is in the field of "*adding a wide array of chemical, biological and nuclear sensors for sensing and analyzing properties, conditions, and substances present within an environment, and generating alerts for public safety*". **Since the Answer itself provides two different field definitions, the reference are not analogous. Further, clearly the Mehta reference is NOT in the field of** "*a monitoring device connected to an appliance that connects with the power supply and wireless transceiver*", as defined for the Sharood reference that servers as the primary reference.

Argument #35: Improper rationale for combination of the Sharood and Mehta references.

Regarding (a) – The Answer does not address the arguments raised in the Appeal Brief, and only discusses the analogousness of the Sharood and Mehta references, copied from

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the response to Argument #34, and repeats the rejection as in the Action. It is respectfully requested that the sustaining of the rejection by the PTAB of this claim should thus be considered as a new ground.

Regarding (b) – The Answer does not address the arguments raised in the Appeal Brief, and only copy the response to part (a).

Regarding (c) – The Answer does not address the arguments raised in the Appeal Brief, and only copy the response to part (a).

Claims 44-46

Argument #36: Improper rationale for combination of the Sharood and Kiko references.

Regarding (a) – The Answer does not address the arguments raised in the Appeal Brief, and only discusses the analogousness of the Sharood and Kiko references, copied from the response to Argument #26, and repeats the rejection as in the Action. It is respectfully requested that the sustaining of the rejection by the PTAB of this claim should thus be considered as a new ground.

Regarding (b) – The Answer does not address the arguments raised in the Appeal Brief, and only copy the response to part (a).

Regarding (c) – The Answer does not address the arguments raised in the Appeal Brief, and only copy the response to part (a).

Regarding (d) – The Answer does not address the arguments raised in the Appeal Brief, and only copy the response to part (a).

Claims 61, 63 and 64

Argument #37: Non-analogous references.

According to the Answer, the Sharood reference is in the field of "*a monitoring device connected to an appliance that connects with the power supply and wireless transceiver*", while the Ansari reference is in the field of "*adding network services (such as assigning unique network addresses) to expose the presence and functionalities of one or more associated endpoint devices to local and/or remote presence and networking message servers or other devices via a wide area network*". **Since the Answer itself provides two different field definitions, the reference are not analogous. Further, clearly the Ansari reference is NOT in the field of** "*a monitoring device connected to an appliance that connects with the power supply and wireless transceiver*", as defined for the Sharood reference that servers as the primary reference.

Argument #38: Improper rationale for combination of the Sharood and Ansari references.

Regarding (a) – The Answer does not address the arguments raised in the Appeal Brief, and only discusses the analogousness of the Sharood and Ansari references, copied from the response to Argument #37, and repeats the rejection as in the Action. It is respectfully requested that the sustaining of the rejection by the PTAB of this claim should thus be considered as a new ground.

Regarding (b) – The Answer does not address the arguments raised in the Appeal Brief, and only copy the response to part (a).

Regarding (c) – The Answer does not address the arguments raised in the Appeal Brief, and only copy the response to part (a).

Regarding (d) – The Answer does not address the arguments raised in the Appeal Brief, and only copy the response to part (a).

Claim 62

Argument #39: Non-analogous references.

According to the Answer, the Sharood reference is in the field of "*a monitoring device connected to an appliance that connects with the power supply and wireless transceiver*", while the Wong reference is in the field of "*adding services (such as assigning unique addresses to sensors) to transmit AC power values calculated based on the measured AC voltage and AC current in accordance with IEEE 802.11 wireless networking standard (WiFi) to a wireless network access point*". **Since the Answer itself provides two different field definitions, the reference are not analogous. Further, clearly the Wong reference is clearly NOT in the field of** "*a monitoring device connected to an appliance that connects with the power supply and wireless transceiver*", as defined for the Sharood reference that servers as the primary reference.

Argument #40: Improper rationale for combination of the Sharood and Wong references.

The Answer does not address any of the arguments raised in the Appeal Brief, and only discusses the analogousness of the Sharood and Wong references, copied from the response to Argument #39, and repeats the rejection as in the Action. It is respectfully requested that the sustaining of the rejection by the PTAB of this claim should thus be considered as a new ground.

Respectfully submitted,

By /Yehuda Binder/
Yehuda Binder
Registration No. 73,612

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Electronic Patent Application Fee Transmittal

Application Number:	15992221
Filing Date:	30-May-2018
Title of Invention:	SYSTEM AND METHOD FOR SERVER BASED CONTROL
First Named Inventor/Applicant Name:	Yehuda BINDER
Filer:	Yehuda Binder/Dorit Binder
Attorney Docket Number:	BINDER-014-US7

Filed as Small Entity

Filing Fees for Utility under 35 USC 111(a)

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
APPEAL FORWARDING FEE	2413	1	1120	1120
Post-Allowance-and-Post-Issuance:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Extension-of-Time:				
Miscellaneous:				
		Total in USD ($)		**1120**

Electronic Acknowledgement Receipt	
EFS ID:	38674694
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:	24-FEB-2020
Filing Date:	30-MAY-2018
Time Stamp:	16:59:34
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	DA
Payment was successfully received in RAM	$1120
RAM confirmation Number	E20202NG59529218
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The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:	

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Certification and Transmittal of Appeal Forwarding Fee	aia0034.pdf	222601 1a676d7bcc8d6caf1775272ffe4453e525565ca7	no	2
Warnings:					
Information:					
2	Reply Brief Filed	2-2020-Reply-Brief.pdf	81996 c6d7a7c8cfe6c393c1234e6a8f4c894e9d7333f6	no	21
Warnings:					
Information:					
3	Fee Worksheet (SB06)	fee-info.pdf	30263 ba159d7baedf3dbddefd9f4462670da4bf66ed17	no	2
Warnings:					
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		Total Files Size (in bytes):	334860		

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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.

Doc code: WFEE.APPEAL
Doc Description: Certification and Transmittal of Appeal Forwarding Fee

PTO/AIA/34 (06-14)

CERTIFICATION AND TRANSMITTAL OF APPEAL FORWARDING FEE	Docket Number (Optional) BINDER-014-US7

I hereby certify that this correspondence is being facsimile transmitted to the USPTO, EFS-Web transmitted to the USPTO, or deposited with the United States Postal Service with sufficient postage in an envelope addressed to "Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450" [37 CFR 1.8(a)] on _____. Signature _____ Typed or printed name _____	In re Application of Yehuda BINDER	
	Application Number 15/992,221	Filed May 30, 2018
	For SYSTEM AND METHOD FOR SERVER-BASED CONTROL	
	Art Unit 2456	Examiner KHAN, HASSAN ABDUR-RAHMAN

37 CFR 41.45 specifies that, in order to avoid dismissal of the appeal, appellant must pay the fee set in 37 CFR 41.20(b)(4) within two months of the later of the date of either the examiner's answer, or a decision refusing to grant a petition under 37 CFR 1.181 to designate a new ground of rejection in an examiner's answer.

The undersigned certifies that the appropriate fee accompanies this transmittal.

The fee for forwarding this appeal is (37 CFR 41.20(b)(4)) $ _____

☑ Appellant asserts small entity status. See 37 CFR 1.27. Therefore, the fee shown above is reduced by 50%, and the resulting fee is: $ 1120

☐ Appellant certifies micro entity status. See 37 CFR 1.29. Therefore, the fee shown above is reduced by 75%, and the resulting fee is: $ _____
Form PTO/SB/15A or B or equivalent must either be enclosed or have been submitted previously.

☐ A check in the amount of the fee is enclosed.

☐ Payment by credit card. Form PTO-2038 is attached.

☑ The Director is hereby authorized to charge any fees which may be required, or credit any overpayment to Deposit Account No. 506726.

☑ Payment made via EFS-Web.

Extensions of time under 37 CFR 1.136(a) for patent applications are not applicable to the time period set forth in 37 CFR 41.45. See 37 CFR 1.136(b) for extensions of time to reply for patent applications and 37 CFR 1.550(c) for extensions of time to reply for *ex parte* reexamination proceedings.

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

I am the

☐ appellant

☑ attorney or agent of record Registration number 73612

☐ attorney or agent acting under 37 CFR 1.34 Registration number _____

Signature /Yehuda Binder/

Typed or printed name Yehuda Binder

Telephone Number +972-54-4444-577

Date February 24, 2020

NOTE: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4 for signature requirements and certifications. Submit multiple forms if more than one signature is required, see below*.

☑ * Total of 1 forms are submitted.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

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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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2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
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 inspection 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.

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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 02/19/2020

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

ART UNIT	PAPER NUMBER
2456	

MAIL DATE	DELIVERY MODE
02/19/2020	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.



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BEFORE THE PATENT TRIAL AND APPEAL BOARD

Application Number: 15/992,221
Filing Date: MAY 30th 2018
Appellant(s): BINDER et al.

_____
Yehuda Binder
Registration No. 73,612
Appellant

OFFICE'S ANSWER

This is in response to the appeal brief filed 11/15/19 appealing from the Office action mailed 10/31/19.

Requirement to pay appeal forwarding fee: In order to avoid dismissal of the instant appeal in any application or ex parte reexamination proceeding, 37 CFR 41.45 requires payment of an appeal forwarding fee within the time permitted by 37 CFR 41.45(a), unless appellant had timely paid the fee for filing a brief required by 37 CFR 41.20(b) in effect on March 18, 2013.

(1) Grounds of Rejection to be Reviewed on Appeal

Every ground of rejection set forth in the Office action dated 10/31/19 from which the appeal is taken is being maintained by the Office except for the grounds of rejection (if any) listed under the subheading "WITHDRAWN REJECTIONS." New grounds of rejection (if any) are provided under the subheading "NEW GROUNDS OF REJECTION."

Information Disclosure Statement

The nine (9) information disclosure statements (IDS) submitted on 05/30/2018, 11/19/2018, 11/15/2019 and 01/08/2020 are in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statements has being considered by the examiner.

(2) Response to Arguments

The Office summarizes the various points raised by the appellant and addresses replies individually based on the Office Action dated 10/31/2019. The Office's reply per the appellant's arguments presented in the appeal brief filed on 11/15/2019 are as following:

ARGUMENT # 1 (Improper rejection – Unclear conclusory rejection) - Pg. 4: In response to applicant argument, *"the rejection is vague and unclear since it provides no more than copied passages from the references. It is not clear how claimed elements or features are equated to elements or features in the references,"* the Office notes that the rejection **clearly** presents all the grounds for rejection and the **specific** citations from the references **clearly** shows or describes all the individual elements of all the claims as presented in the Office Action dated 10/31/2019.

ARGUMENT # 2 a, b, c (Improper picking and choosing) - Pg. 4:

(a) In response to applicant argument (a), *"the Claim 1 explicitly recites a single appliance in a single enclosure that include both the appliance and the control functionalities. In contrast, the Action is based on two distinct, separate devices, each enclosed in its own enclosure: The appliance 130 and the retrofit plug 125, that are clearly shown as separate and distinct elements ... even the name "retrofit plug" indicate external element used with existing unchanged appliance ... the Action itself admits that the appliance and the retrofit plug are separated and are ONLY electrically connected,"* the Office notes that the reference Sharood **clearly** teaches the working combination of an appliance 130 attached with a retrofit plug 125 (Fig. 6B), where the retrofit plug 125 allows remote control of the appliance (0094) as it connects with the main electrical supply that supply power to the appliance 130, and it permits current flow regulation and remote shutdown of the attached appliance. The Office notes that most common household appliances (refrigerator, washer, dryer, dishwasher, microwave oven etc.) are equipped with an electrical power plug as an attached integral part of the appliance. Similarly, here also the *electrical attachment* of the retrofit plug with the appliance is a ***physical attachment*** and therefore it is considered a part of the single enclosure.

(b) In response to applicant argument (b), *"such rejection may not even qualify for obviousness, since the rejection improperly pick, choose, and combine' between the different embodiments, and as such*

may not be combined as part of the rejection," the Office notes that the rejection **clearly** presents all the grounds for rejection, the rejection **DOES NOT** improperly pick, choose and combine between the different embodiments and/or references, but **specific** citations are quoted from references that **clearly** demonstrate all the individual elements of all the claims as presented.

(c) In response to applicant argument (c), *"the Sharood reference actually teaches away from any combination of the retrofit plug 125 and an appliance 130,"* the Office notes that the reference Sharood **clearly** teaches the working combination of an appliance 130 attached with a retrofit plug 125 (Fig. 6B), where the retrofit plug 125 allows control of the appliance (0094) as it connects with the main electrical supply that supply power to the appliance 130, and it permits current flow regulation and remote shutdown of the attached appliance.

ARGUMENT # 3 - Pg. 7: In response to applicant argument, *"the Sharood reference fails to disclose the limitations of 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 ... it is noted that such current monitoring or reporting does not necessarily teach any 'current sensor' as recited,"* the Office notes that claim is about **measuring** current. Here, the reference Sharood **clearly** discloses (0088) a **measure and transmit circuit 620** to **measure the current** drawn by the appliance attached to the retrofit plug 125. This *measure and transmit circuitry 620* in the retrofit plug can monitor and report the current drawn by the attached appliance 130 from the main power supply which can be 100V - 264V and 50/60 Hz (0087, 0089).

ARGUMENT # 4 a, b (Claim 6) - Pg. 8:

(a) In response to applicant argument, *"the Sharood reference fails to disclose the limitations of "... the appliance comprises a dishwasher, a food blender, a beverage maker, or a coffeemaker ... the*

reference in general, and the cited paragraph 93 in particular, fail to disclose any of the appliances recited in the claim," the Office notes that Sharood discloses (0004) an automation system that can be used on all of the home appliances that receives power from a source (0005) and provide this information to a monitoring facility or a service provider. Sharood discloses examples of such common home appliances 130 as refrigerator, oven, washer, dryer (0093), air conditioner (0133), water heater, coffee pot (0147) etc. and similar to above, other home appliances are dishwasher, food blender, beverage maker or a coffee maker etc. The claims and the arguments do not further define how the appliances are different from Sharood et al.'s home appliances in terms of consuming power (current and voltage) and in terms of being monitored and controlled remotely, and the claims are just claiming other appliances without specifying their functionality, so Sharood et al. home appliances 130 teaches the claimed broad appliances.

(b) In response to applicant argument, *"the action seems to be based on the general teaching of "home appliances" in the Sharood reference ... however, differences between the prior art reference and the claimed invention, however slight, invoke the question of obviousness,"* the Office notes that Sharood discloses (0004) an automation system that can be used on all of the home appliances that receives power from a source (0005) and provide this information to a monitoring facility or a service provider. Sharood discloses examples of such common home appliances 130 as refrigerator, oven, washer, dryer (0093), air conditioner (0133), water heater, coffee pot (0147) etc. etc. and similar to above, other home appliances are dishwasher, food blender, beverage maker or a coffee maker etc. The claims and the arguments do not further define how the appliances are different from Sharood et al.'s home appliances in terms of consuming power (current and voltage) and in terms of being monitored and controlled remotely, and the claims are just claiming other appliances without specifying their functionality, so Sharood et al. home appliances 130 teaches the claimed broad appliances.

ARGUMENT # 5 a, b (Claims 9, 10, 32-34, 36, 55 and 57) - Pg. 8:

(a) In response to applicant argument, *"Claims 9, 10, 32, 33, 34, 36, 55, and 57 are rejected based on paragraph 131 of the Sharood reference. However, paragraphs 0129-0140 in the Sharood reference are directed to a Retofit Damper that is a different embodiment that is distinct and non-related to the appliance 130 and the retrofit plug 125 upon which claim 1 is rejected,"* the Office notes that the claims are about an electrically actuated switch relay with a RF transceiver and a sensor. Similar to the Retrofit Plug, the damper 900 for smart HVAC control (Sharood, 0130-0134) measures and transmits sensor data through the RF network to the zone controller server, wherein the RF transceiver 1130 transmits control commands and receives responses to the commands. The prior art discloses the invention as a whole and the examiner is not picking, choosing and combining various disclosures. The arguments do not differentiate between these combinations of electrically actuated switch with RF transceiver, controller server and sensor.

(b) In response to applicant argument, *"the claims are explicitly directed to an "appliance associated with food storage, handling, or preparation", while paragraphs 0129-0140 in the Sharood reference are directed to an HVAC system,"* the Office notes that Sharood discloses (0004) an automation system that can be used on all of the home appliances that receives power from a source (0005) and provide this information to a monitoring facility. Sharood discloses examples of such common appliances 130 as refrigerator, oven, washer, dryer (0093), air conditioner (0133), water heater, coffee pot (0147) etc. The claims and the arguments do not further define how the appliances are different from Sharood et al.'s home appliances in terms of consuming power (current and voltage) and in terms of being monitored and controlled remotely, and the claims are just claiming other appliances without specifying their functionality, so Sharood et al. home appliances 130 teaches the claimed broad appliances.

ARGUMENT # 6 (Claim 34) - Pg. 9: In response to applicant argument, *"the claim is directed to the*

structure of the sensor and NOT to its functionality. The Sharood reference fails to teach any structure of any sensor in general, and the recited structures in particular. Further, the rejection seems to be based on that temperature sensor is an example of piezoelectric sensor, which is technically incorrect. As explained in the specification, various structures and technologies may be used for sensing temperature," the Office notes that the rejection **IS NOT** based on *'temperature sensors are piezoelectric sensors'*. The claim is about **transverse longitudinal or shear effect mode** i.e. the functionality of the temperature sensor. The rejection **CLEARLY** states that the claimed temperature sensor is similar to the temperature sensor 1060 as noted in the cited prior art. The claims and arguments are claiming variations without specifying their indifferent functionality to the cited temperature sensor.

ARGUMENT # 7 a, b - Pg. 10:

(a) In response to applicant argument, *"even assuming, arguendo, that the recited limitation is disclosed in the Sharood reference, the claim is rejected based on paragraphs 0131 and 0133 of the Sharood reference. However, paragraphs 0129-0140 in the Sharood reference are directed to a 'Retofit Damper' that is a different embodiment that is distinct and non-related to the appliance 130 and the retrofit plug 125 upon which claim 1 is rejected,"* the Office notes that the claims are about an electrically actuated switch relay with a RF transceiver and a sensor. Similar to the Retrofit Plug, the Damper 900 (Sharood, 0130-0134) measures and transmits sensor data through the RF network to the zone controller server, wherein the RF transceiver 1130 transmits control commands and receives responses to the commands. The prior art discloses the invention as a whole and the examiner is not picking, choosing and combining various disclosures. The arguments do not differentiate between these combinations of electrically actuated switch with RF transceiver, controller server and sensor.

(b) In response to applicant argument, *"the claims are explicitly directed to an appliance associated with food storage, handling, or preparation, while paragraphs 0129-0140 in the Sharood*

reference are directed to an HVAC system, that is not relevant to any food handling," the Office notes that Sharood discloses (0004) an automation system that can be used on all of the home appliances that receives power from a source (0005) and provide this information to a monitoring facility. Sharood discloses examples of such common appliances 130 as refrigerator, oven, washer, dryer (0093), air conditioner (0133), water heater, coffee pot (0147) etc. The claims and the arguments do not further define how the appliances are different from Sharood et al.'s home appliances in terms of consuming power (current and voltage) and in terms of being monitored and controlled remotely, and the claims are just claiming other appliances without specifying their functionality, so Sharood et al. home appliances 130 teaches the claimed broad appliance.

ARGUMENT # 8 a, b (Claim 36) - Pg. 11:

(a) In response to applicant argument, *"even assuming, arguendo, that the recited limitation is disclosed in the Sharood reference, the claim is rejected based on paragraphs 0131 and 0133 of the Sharood reference. However, paragraphs 0129-0140 in the Sharood reference are directed to a 'Retofit Damper' that is a different embodiment that is distinct and non-related to the appliance 130 and the retrofit plug 125 upon which claim 1 is rejected,"* the Office notes that the claims are about an electrically actuated switch relay with a RF transceiver and a sensor. Similar to the Retrofit Plug, the Damper 900 (Sharood, 0130-0134) measures and transmits sensor data through the RF network to the zone controller server, wherein the RF transceiver 1130 transmits control commands and receives responses to the commands. The prior art discloses the invention as a whole and the examiner is not picking, choosing and combining various disclosures. The arguments do not differentiate between these combinations of electrically actuated switch with RF transceiver, controller server and sensor.

(b) In response to applicant argument, *"the claims are explicitly directed to an "appliance associated with food storage, handling, or preparation", while paragraphs 0129-0140 in the Sharood*