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 # 9 a, b, c (Claim 54) - Pg. 12:

(a) In response to applicant argument, *"the Action is not clear WHICH element is equated to the recited actuator. The Action describes switching of the appliance and not of any actuator as recited. Further, the rejection is vague and unclear since it provides no more than copied passages from the references, combined with Examiner interpretation. It is not clear how claimed elements or features are equated to elements or features in the references,"* the Office notes that Sharood discloses (0094) the retrofit plug 125 allows remote control of the appliance as it includes a **power-switching device** (i.e. an actuator) that permits dimming, enables current flow regulation and remote shutdown of the attached appliance. The rejection is **CLEAR** and all the claimed elements are specifically cited from the reference.

(b) In response to applicant argument, *"it is not clear if the rejection equates the enclosure to the retrofit plug 125 enclosure of to the appliance 130 enclosure. It is not clear how claimed elements or features are equated to elements or features in the references,"* the Office notes that Sharood discloses (0094) the **retrofit plug 125** (i.e. single enclosure) allows remote control of the appliance as it includes a **power-switching device** (i.e. an actuator) that permits dimming, enables current flow regulation and

remote shutdown of the attached appliance. The rejection is **CLEAR** and all the claimed elements are specifically cited from the reference.

(c) In response to applicant argument, *"the rejection does not mentions or points to any wireless network in general, and any relation between any actuator and the wireless network in particular,"* the Office notes that Sharood discloses (0238) sending the control commands for the power-switching device (i.e. an actuator) if an appliance malfunctions using the control server and the **wired/wireless network**.

ARGUMENT # 10 a, b (Claim 55) - Pg. 13:

(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 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 (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 cited 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 # 11 (Claim 56) - Pg. 15: 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 109-113 of the Sharood reference. However, these paragraphs in the Sharood reference, as admitted in the Action itself, are directed to a standard touchpad 152 in a different embodiment that is distinct and non-related to the appliance 130 and the retrofit plug 125 upon which claim 1 is rejected. Furthermore, claim 56 is dependent from claim 54 that was expressly rejected based on the teachings of retrofit plug 125 and appliance 130,"* the Office notes that the claim is reciting an actuator that generates audible alarms and the cited *touchpad* 152 (from the reference Sharood et al.) is also an actuator generating alarm and alert notifications based on received signals. The claims and the arguments do not further define how the actuators are any different without specifying their functionality with respect to how their alarms are any different in terms of being generated in response to the received signals.

ARGUMENT # 12 a, b (Claim 57) - Pg. 16:

(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 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. Furthermore, Furthermore, claim 57 is dependent from claim 54 that was rejected based on the teachings of retrofit plug 125 and appliance 130," 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 cited 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 being remotely controlled, and the claims and the arguments are claiming other appliances without specifying their functionality with respect to how their actuators are any different in terms of being generating a response to the received signals, so Sharood et al. home appliances 130 with actuators teaches the claimed broad appliance with actuator.

ARGUMENT # 13 (Claims 59 and 60) - Pg. 17: In response to applicant argument, *"the Sharood reference in general, and the cited paragraphs 152 and 189 in particular, do not disclose any 'process control apparatus 28' or are related in any way to the recited limitations. It is believed that the rejections*

were erroneously copied from a prior action that relates to the Ebrom reference and NOT to the Sharood reference," the Examiner notes that it is a typo as the Claims 59 and 60 are rejected by Sharood in view of Hendrickson (Point #10 on Pg. 27 of Non-Final Action 10/31/2019). Hendrickson (0052 and 0089) teaches **ALL** the said limitation of Claims 59 and 60. The process control apparatus 28 may be configured to modify properties of one or more consumables or resources such as temperature or a chemical property. For example, temperature could be raised by actuating a heater, and chemical properties might be changed by controlling a mixture of at least two consumables and/or resources by using a motor and an auger.

ARGUMENT # 14 (Non-Analogous References) - Pg. 17: In response to applicant argument, *"the Action is based on combining the Sharood and Legaspi references … the Applicant submits that the cited references are directed towards respectively different fields and purposes, and are based on respectively different structures, and thus are not analogous to one another and cannot logically be combined … the Action does not explain, as required by the rules, what is the reasoning behind the combining of the references, and why these references are analogous to each other,"* the Examiner notes that the references are analogous, as Sharood teaches a monitoring device connected to an appliance that connects with the power supply and wireless transceiver, whereas in the same field of art, Legaspi teaches systems and methods for automatically disabling appliances using wireless transceiver upon occurrence of a safety event.

ARGUMENT # 15 (Improper Rejection – Unclear Conclusory Rejection) - Pg. 19: In response to applicant argument, *"the rejection is vague and unclear since it provides no more than copied passages from the references that allegedly disclose the recited elements. It is not clear how the claimed elements or features are equated to elements or features in the references, and HOW the Sharood reference, serving as the main reference is modified to arrive at the claim ... it is not clear HOW the primary reference*

(Sharood) reference is modified. For example, it is not explained how and where the additional elements are added, what elements are modified, and are they added as a substitute or as addition to the Sharood described elements. Similarly, it is not clear how the Sharood system is modified to include this additional (or substitute) device," the Examiner notes that the references are **ANALOGOUS**, and the rejection is **PROPER** as Sharood teaches a monitoring device connected to an appliance that connects with the power supply and wireless transceiver, whereas in the same field of art, Legaspi teaches systems and methods for automatically disabling appliances using wireless transceiver upon occurrence of a safety event using the electrically actuated relay switch to cut-off the electrical power to the appliance.

ARGUMENT # 16 (Claim 8 – Improper rationale for combination of references) - Pg. 19:

(a) In response to applicant argument, *"it is noted that the rationale of automatically disabling appliances may at best explain why a switching element is used, but is not related to the specific features recited in the claim … hence, the rationale provides no link to the specific claim,"* the Examiner notes that the references are **ANALOGOUS**, and the rejection is **PROPER** as Sharood teaches a monitoring device connected to an appliance that connects with the power supply and wireless transceiver, whereas in the same field of art, Legaspi teaches systems and methods for automatically disabling appliances using wireless transceiver on occurrence of a safety event using the electrically actuated relay switch to cut-off the electrical power to the appliance.

(b) In response to applicant argument, *"the rationale is based on … implementing methods for automatically disabling appliances … however, the Sharood reference already discloses this feature, as admitted in the Action itself in the rejection of claim 1 (page 4, lines 18- 20) that states: Sharood discloses (194) the retrofit plug 125 allows remote control of the appliance as it includes a power-switching device that permits dimming, enables current flow regulation and remote shutdown of the attached appliance … furthermore, such advantage is clearly redundant to the Sharood reference, and it is noted that where the*

secondary reference disclosed an advantage, and where the primary reference already possessed that advantage," the Examiner notes that the references are **ANALOGOUS**, and the rejection is **PROPER** as Sharood teaches a monitoring device connected to an appliance that connects with the power supply and wireless transceiver, whereas in the same field of art, Legaspi teaches systems and methods for automatically disabling appliances using wireless transceiver on occurrence of a safety event using the electrically actuated relay switch to cut-off the electrical power to the appliance. Here, the reference Legaspi (0102) is used by the Examiner specifically to **teach the particular type** of an electrically actuated switch, which is a **single pole double throw (SPDT) relay**, as claimed by the applicant.

ARGUMENT # 17 (Claim 11 - Improper rationale for combination of references) - Pg. 21: In response to applicant argument, *"the arguments described above regarding claim 8 are repeated here … in addition, the SAME rationale is used for both claim 11 as well as claim 8, although the recited elements are different,"* the Examiner notes that the references are **ANALOGOUS**, and the rejection is **PROPER** as Sharood teaches a monitoring device connected to an appliance that connects with the power supply and wireless transceiver, whereas in the same field of art, Legaspi teaches systems and methods for automatically disabling appliances using wireless transceiver on occurrence of a safety event using the electrically actuated relay switch to cut-off the electrical power to the appliance. Here, the reference Legaspi (0068) is used by the Examiner specifically to **teach the particular type** of an electrically actuated switch, which is a **transistor,** as claimed by the applicant.

ARGUMENT # 18 (Claim 20 – Improper rationale for combination of references) - Pg. 22:

(a) In response to applicant argument, *"it is not clear HOW the primary reference (Sharood) reference is modified … for example, how and where are the additional limitations added, and are they added as a substitute or as an addition to the Sharood described elements … similarly, it is not clear how*

the Sharood system is modified to include this additional (or substitute) device … such a conclusory statement is insufficient to establish persuasively that a person of ordinarily skill in the art would have recognized some deficiency in the Sharood reference or had some other reason to look to any other reference and combine its teachings with those of Sharood," the Examiner notes that the references are **ANALOGOUS**, and the rejection is **PROPER** as Sharood teaches a monitoring device connected to an appliance that connects with the power supply and wireless transceiver, whereas in the same field of art, Legaspi teaches systems and methods for automatically disabling appliances using wireless transceiver on occurrence of a safety event using the electrically actuated relay switch to cut-off the electrical power to the appliance.

(b) In response to applicant argument, *"it is noted that the rationale of by implementing methods for wired and wireless signals transmission may at best explain why a wireless communication is used, but is not related to the specific features of WPAN recited in the claim … hence, the rationale provides no link to the specific claim,"* the Examiner notes that the references are **ANALOGOUS**, and the rejection is **PROPER** as Sharood teaches a monitoring device connected to an appliance that connects with the power supply and wireless transceiver, whereas in the same field of art, Legaspi teaches systems and methods for automatically disabling appliances using wireless transceiver on occurrence of a safety event using the electrically actuated relay switch to cut-off the electrical power to the appliance. Here, Legaspi (0064) is used by the Examiner specifically to **teach the particular type** of network i.e. the wireless network, along with the RF transceiver circuitry to transmit and receive, as claimed by the applicant.

(c) In response to applicant argument, *"the rationale is based on by implementing methods for wired and wireless signals transmission … however, the Sharood reference already discloses this feature, as admitted in the Action itself in the rejection of claim 1 on page 4 at lines 9-13 … furthermore, such advantage is clearly redundant to the Sharood reference, as taught by the Sharood reference, such as at least in paragraphs 0213-0214, 0226, and 0233 … hence such modification is clearly redundant, rendering*

the combination moot," the Examiner notes that the references are **ANALOGOUS**, and the rejection is **PROPER** as Sharood teaches a monitoring device connected to an appliance that connects with the power supply and wireless transceiver, whereas in the same field of art, Legaspi teaches methods for wired and wireless signals transmissions using transceiver for automatically disabling appliances on occurrence of a safety event by activating the electrically actuated relay switch to cut-off the power the appliance. Here, the references Sharood and Legaspi are combined to teach all the limitations of Claim 20.

ARGUMENT # 19 (Claim 21 - Improper rationale for combination of references) - Pg. 24: In response to applicant argument, *"the arguments described above regarding claim 20 are repeated here … in addition, the SAME rationale is used for both claim 21 as well as claim 20, although the recited elements are different … hence, inherently the rationale provides no link to the specific claim,"* the Examiner notes that the references are **ANALOGOUS**, and the rejection is **PROPER** as Sharood teaches a monitoring device connected to an appliance that connects with the power supply and wireless transceiver, whereas in the same field of art, Legaspi teaches methods for wired and wireless signals transmissions using transceiver for automatically disabling appliances on occurrence of a safety event by activating the electrically actuated relay switch to cut-off the power the appliance. Here, Legaspi (0064) is used by the Examiner specifically to teach the **Bluetooth** and the **wireless network**, along with the **RF transceiver circuitry** to transmit and receive, as claimed by the applicant.

ARGUMENT # 20 (Claim 23 - Improper rationale for combination of references) - Pg. 24: In response to applicant argument, *"the arguments described above regarding claim 20 are repeated here, with the exception of relating to WLAN rather than WPAN … in addition, the SAME rationale is used for both claim 23 as well as claim 20, although the recited elements are different … hence, inherently the rationale provides no link to the specific claim,"* the Examiner notes that the references are **ANALOGOUS**,

and the rejection is **PROPER** as Sharood teaches a monitoring device connected to an appliance that connects with the power supply and wireless transceiver, whereas in the same field of art, Legaspi teaches systems and methods for automatically disabling appliances using wireless transceiver on occurrence of a safety event using the electrically actuated relay switch to cut-off the electrical power to the appliance. Here, Legaspi (0061) is used by the Examiner specifically to teach the **wireless network**, along with the **RF transceiver circuitry** to transmit and receive data signals or messages, as claimed by the applicant.

ARGUMENT # 21 (Claim 24 - Improper rationale for combination of references) - Pg. 25: In response to applicant argument, *"the arguments described above regarding claim 20 are repeated here, with the exception of relating to WLAN rather than WPAN … in addition, the SAME rationale is used for both claim 24 as well as claim 20, although the recited elements are different … hence, inherently the rationale provides no link to the specific claim,"* the Examiner notes that the references are **ANALOGOUS**, and the rejection is **PROPER** as Sharood teaches a monitoring device connected to an appliance that connects with the power supply and wireless transceiver, whereas in the same field of art, Legaspi teaches systems and methods for automatically disabling appliances using wireless transceiver on occurrence of a safety event using the electrically actuated relay switch to cut-off the electrical power to the appliance. Here, Legaspi (0061) is used by the Examiner specifically to teach the **wireless network**, along with the **RF transceiver circuitry** to transmit and receive data signals or messages, as claimed by the applicant.

ARGUMENT # 22 (Improper rationale for combination of references) - Pg. 25: In response to applicant argument, *"the rationale for combining the Sharood and Legaspi references is stated as... to enhance the method and system of a monitoring device connected to an appliance that receives power from a source and outputs data via communication transceiver as disclosed by Sharood, by implementing detectors (or detector modules) that are configured to emit a signal upon an occurrence of the event,"* the

Examiner notes that the references are **ANALOGOUS**, and the rejection is **PROPER** as Sharood teaches a monitoring device connected to an appliance that connects with the power supply and wireless transceiver, whereas in the same field of art, Legaspi teaches systems and methods for automatically disabling appliances using wireless transceiver on occurrence of a safety event using the electrically actuated relay switch to cut-off the electrical power to the appliance. Here, Legaspi (0052, 0064 and 0099) are used by the Examiner specifically to teach the **emitting of a signal** and the **light 1912 for indicating the status**, as claimed by the applicant.

ARGUMENT # 23 (Non-analogous references) - Pg. 26: In response to applicant argument, *"the Action is based on combining the Sharood and Legaspi references … the Applicant submits that the cited references are directed towards respectively different fields and purposes, and are based on respectively different structures, and thus are not analogous to one another and cannot logically be combined … the Action does not explain, as required by the rules, what is the reasoning behind the combining of the references, and why these references are analogous to each other,"* the Examiner notes that the references are **ANALOGOUS**, and the rejection is **PROPER** as Sharood teaches a monitoring device connected to an appliance that connects with the power supply and wireless transceiver, whereas in the same field of art, Legaspi teaches systems and methods for automatically disabling appliances using wireless transceiver on occurrence of a safety event using the electrically actuated relay switch to cut-off the electrical power to the appliance. Here, Legaspi (0052, 0064 and 0099) are used by the Examiner specifically to teach the **emitting of a signal** and the **light 1912 for indicating the status**, as claimed by the applicant.

ARGUMENT # 24 (Claim 22: Improper Rationale for Combination of references) - Pg. 27:

(a) In response to applicant argument, *"it is noted that the rationale of: by implementing communication methods… of accessing the data generated by the energy monitoring device to check the real-time status of energy usage of the appliances and remotely control the electrical devices within the property, may at best explain why a wireless communication is used, but is not related to the specific variants of WPAN recited in the claim … hence, the rationale provides no link to the specific claim … such a conclusory statement is insufficient to establish persuasively that a person of ordinarily skill in the art would have recognized some deficiency in the Sharood reference or had some other reason to look to any other reference and combine its teachings with those of Sharood,"* the Examiner notes that the references are **ANALOGOUS**, and the rejection is **PROPER** as Sharood in view of Legaspi teaches method and system of a monitoring device connected to an appliance that receives power from a source and outputs data via communication transceiver over a wireless or wired network, whereas Rada teaches implementing communication using IEEE 802.15.4 or Zigbee (low rates and very low complexity but long battery life) of accessing the data generated by the energy monitoring device, and to check the real-time status of energy usage of the appliances and remotely control the electrical devices within the property (0215).

(b) In response to applicant argument, *"the Sharood reference already discloses this feature, as admitted in the Action itself in the rejection of claim 1 … furthermore, such advantage is clearly redundant to the Sharood reference, as taught by the Sharood reference, such as at least in paragraphs 0213-0214, 0226, and 0233 … hence such modification is clearly redundant, rendering the combination moot,"* the Examiner notes that the references are **ANALOGOUS**, and the rejection is **PROPER** as Sharood in view of Legaspi teaches method and system of a monitoring device connected to an appliance that receives power from a source and outputs data via communication transceiver over a wireless or wired network, whereas Rada is combined with Sharood and Legaspi, as Rada teaches (0063, 0067 and 0215) implementing energy monitoring device with communications using IEEE 802.15.4 or Zigbee (very low complexity, and long battery life) for accessing the data generated by the energy monitoring device, and to check the real-time

status of energy usage of the appliances, and to remotely control the electrical devices within the property using wireless Zigbee or Bluetooth etc.

ARGUMENT # 25 (Claim 24: Improper Rationale for Combination of references) - Pg. 29:

(a) In response to applicant argument, *"the arguments described above regarding claim 22 are repeated here, with the exception of relating to WiMAX rather than WPAN … in addition, the SAME rationale is used for both claim 29 as well as claim 22, although the recited elements are different … hence, inherently the rationale provides no link to the specific claim … such a conclusory statement is insufficient to establish persuasively that a person of ordinarily skill in the art would have recognized some deficiency in the Sharood reference or had some other reason to look to any other reference and combine its teachings with those of Sharood,"* the Examiner notes that the references are **ANALOGOUS**, and the rejection is **PROPER** as Sharood in view of Legaspi teaches method and system of a monitoring device connected to an appliance that receives power from a source and outputs data via communication transceiver over a wireless or wired network, whereas Rada **specifically** teaches (0216) implementing communication using 3G, **WiMAX**, WiFi, TCP/IP or any other protocol such as 802.15.4 or Zigbee to check the real-time status of energy usage of the appliances and remotely control the electrical devices within the property, as claimed by the applicant.

(b) In response to applicant argument, *"the rationale specifically mentions IEEE 802.15.4 and Zigbee, known to be WPAN technologies (see claim 22), while claim 29 is directed to WiMAX which is a WWAN technology, hence the rationale is conclusory and is not relevant to the claim … thus the rationale is conclusory and general,"* the Examiner notes that the references are **ANALOGOUS**, and the rejection is **PROPER** as Sharood in view of Legaspi teaches method and system of a monitoring device connected to an appliance that receives power from a source and outputs data via communication transceiver over a wireless or wired network, whereas Rada is combined with Sharood and Legaspi, as Rada teaches (0215)

implementing energy monitoring device systems and methods to check the status of energy usage of the property in real-time, remotely control an electrical device on the property, and query any data collected by the energy monitoring device. The Examiner noted in the Office Action that Rada teaches (0216) the network for such data communications can be 3G, 4G, **WiMax**, WiFi, TCP/IP and other network protocols. Hence, Rada reference teaches ALL the limitations of Claim 29 and presents a specific rationale to be combined with the Sharood and Legaspi references.

ARGUMENT # 26 (Non-analogous references) - Pg. 30: In response to applicant argument, *"the Action is based on combining the Sharood and Kiko references … the Applicant submits that the cited references are directed towards respectively different fields and purposes, and are based on respectively different structures, and thus are not analogous to one another and cannot logically be combined … the Action does not explain as required by the rules, what is the reasoning behind the combining of the references and why these references are analogous to each other,"* the Examiner notes that the references are **ANALOGOUS**, and the rejection is **PROPER** as Sharood teaches method and system of a monitoring device connected to an appliance that receives power from a source and outputs data via communication transceiver over a wireless or wired network, whereas in the same field of art, Kiko teaches a RF interface to add in various different types of **wireless broadband access technologies** to gain access to remote nodes (Kiko, 0208).

ARGUMENT # 27 (Improper Rationale for Combination of references) - Pg. 32:

(a) In response to applicant argument, *"while the claims recites different features and technologies, the SAME rationale is used for ALL claims 25-28, 30-31, 35, and 37 … hence, inherently the rationale provides no link to the specific claim, it is noted that the technology was not evolved to use ONLY a single wireless technology, various communication technologies have been developed for a reason, since*

each technology is adapted to a specific scenario, application, and medium ... hence different reasoning and rationale should be used for using each technology ... in particular, some of the wireless technologies do not lend themselves to be used in Building Automation as described by the Sharood reference," the Examiner notes that the references are **ANALOGOUS**, and the rejection is **PROPER** as Sharood teaches method and system of a monitoring device connected to an appliance that receives power from a source and outputs data via communication transceiver over a wireless or wired network, whereas in the same field of art, Rada teaches a RF interface to add in various different types of **wireless broadband access technologies** to gain access to remote nodes (Kiko, 0208).

(b) In response to applicant argument, *"the Sharood reference already discloses various wireless communication schemes, as admitted in the Action itself in the rejection of claim 1 ... furthermore, such advantage is clearly redundant to the Sharood reference, as taught by the Sharood reference, such as at least in paragraphs 0213-0214, 0226, and 0233 ... hence such modification is clearly redundant, rendering the combination moot,"* the Examiner notes that the references are **ANALOGOUS**, and the rejection is **PROPER** as Sharood teaches method and system of a monitoring device connected to an appliance that receives power from a source and outputs data via communication transceiver over a wireless or wired network, whereas in the same field of art, Kiko teaches a RF interface to add in various different types of **wireless broadband access technologies** to gain access to remote nodes (Kiko, 0208).

(c) In response to applicant argument, *"it is noted that the rationale may best justify the usage of a communication technology, but fails to explain why a wireless technology is to be used in general, and the recited wireless technologies in particular ... thus the rationale is conclusory and general ... such a conclusory statement is insufficient to establish persuasively that a person of ordinarily skill in the art would have recognized some deficiency in the Sharood reference or had some other reason to look to any other reference and combine its teachings with those of Sharood,"* the Examiner notes that the references are **ANALOGOUS**, and the rejection is **PROPER** as Sharood teaches method and system of a monitoring

device connected to an appliance that receives power from a source and outputs data via communication transceiver over a wireless or wired network, whereas in the same field of art, Kiko teaches a RF interface to add in various different types of **wireless broadband access technologies** to gain access to remote nodes (Kiko, 0208).

ARGUMENT # 28 (Claim 35 – Improper rationale for combination of references) - Pg. 34: In response to applicant argument, *"the claim 35 discloses multiple sensors, rather than communication technology … still, the SAME rationale is used for the combination. It is respectfully submitted that this rationale has no relevance to any sensor in general, and the recited limitation in particular ... thus the rationale is general and conclusory,"* the Examiner notes that the references are **ANALOGOUS**, and the rejection is **PROPER** as Sharood teaches method and system of a monitoring device connected to an appliance that receives power from a source and outputs data via communication transceiver over a wireless or wired network, whereas in the same field of art, Kiko teaches a RF interface to add in various different types of **wireless broadband access technologies** to gain access to remote sensor nodes and to collect data from remote sensor nodes (0208). Also, Kiko teaches the limitation of using **multiple sensors** to measure the magnitude and frequency (0116), as claimed by the applicant.

ARGUMENT # 29 (Claim 37 – Improper combination of references) - Pg. 35: In response to applicant argument, *"the rejection seems to be based on paragraph 82 of the Kiko reference ... however, this paragraph is directed ONLY to a processor structure, and has no relevance to any sensor structure or type, rendering the rejection general and conclusory,"* the Examiner notes that the references are **ANALOGOUS**, and the rejection is **PROPER** as Sharood teaches method and system of a monitoring device connected to an appliance that receives power from a source and outputs data via communication transceiver over a wireless or wired network, whereas in the same field of art, Kiko teaches a RF interface

to add in various different types of **wireless broadband access technologies** to gain access to remote sensor nodes and to collect data from remote sensor nodes (0208). Here, Kiko teaches that the hardware of devices such as integrated circuit or other electronic device (such as sensors) may be integrated onto a silicon die (0082), as claimed by the applicant.

ARGUMENT # 30 (Improper rationale for combination of references) - Pg. 35: In response to applicant argument, *"the Claim 37 discloses a type or structure of a sensor, rather than communication technology ... still, the SAME rationale is used for the combination ... it is respectfully submitted that the rationale is based on by implementing communication methods ... of accessing the data generated by the energy monitoring device to check the real-time status of energy usage of the appliances and remotely control the electrical devices within the property ... this rationale has no relevance to any sensor in general, and the recited limitation in particular ... thus the rationale is general and conclusory,"* the Examiner notes that the references are **ANALOGOUS**, and the rejection is **PROPER** as Sharood teaches method and system of a monitoring device connected to an appliance that receives power from a source and outputs data via communication transceiver over a wireless or wired network, whereas in the same field of art, Kiko teaches a RF interface to add in various different types of **wireless broadband access technologies** to gain access to remote sensor nodes and to collect data from remote sensor nodes (0208). Here, Kiko teaches temperature sensors (0023), motion sensor, location sensors (0113), multiple pressure sensors, conductivity sensors, and/or flow sensors discloses (0116), and the hardware of such devices may be integrated onto a single substrate (e.g., silicon "die"), or distributed among two or more substrates (0082), as claimed by the applicant.

ARGUMENT # 31 (Non-analogous references) - Pg. 36: In response to applicant argument, *"the Action is based on combining the Sharood and Hendrickson references ... the Applicant submits that the*

cited references are directed towards respectively different fields and purposes, and are based on respectively different structures, and thus are not analogous to one another and cannot logically be combined ... the Action does not explain, as required by the rules, what is the reasoning behind the combining of the references, and why these references are analogous to each other," the Examiner notes that the references are **ANALOGOUS**, and the rejection is **PROPER** as Sharood teaches method and system of a monitoring device connected to an appliance that receives power from a source and outputs data via communication transceiver over a network, whereas in the same field of art, Hendrickson teaches sensors and consumer accessory devices that supplements functionality of appliance (0001). Here, the reference Hendrickson teaches the specific types and variations of sensors such as chemical sensors, light sensors, photovoltaic sensors, optical sensors, fiber optic sensors, photo resistors, photo diodes (0046), as claimed by the applicant.

ARGUMENT # 32 (Claims: 38-40, 42-43, and 47-50 - Improper rationale for combination of the references) - Pg. 37:

(a) In response to applicant argument, *"while the claims recites different sensors, the SAME rationale is used for ALL claims ... hence, inherently the rationale provides no link to the specific claim ... it is noted that the technology was not evolved to use ONLY a single wireless technology, various communication technologies have been developed for a reason, since each technology is adapted to a specific scenario, application, and medium. Hence different reasoning and rationale should be used for using each technology ... in particular, some of the wireless technologies do not lend themselves to be used in Building Automation as described by the Sharood reference,"* the Examiner notes that the references are **ANALOGOUS**, and the rejection is **PROPER** as Sharood teaches method and system of a monitoring device connected to an appliance that receives power from a source and outputs data via communication transceiver over a network, whereas in the same field of art, Hendrickson teaches sensors and consumer

accessory devices that supplements functionality of appliance (0001). Further, the Examiner notes that the Claims 38-40, 42-43, and 47-50 are **NOT ABOUT** the wireless technology as part of the argument appears to be a **COPY/PASTE** from an unrelated previous argument (see above). Here, the reference Hendrickson teaches the specific types and variations of sensors such as chemical sensors, light sensors, photovoltaic sensors, optical sensors, fiber optic sensors, photo resistors, photo diodes (0046), as claimed by the applicant.

(b) In response to applicant argument, *"the rationale is based on ... to enhance the system of appliance monitoring device as disclosed by Sharood with various types of sensors and consumer accessory devices that supplements functionality of appliance (Hendrickson, 11) ... however, the Sharood reference already discloses various sensors and consumer accessory devices, as admitted in the Action itself in the rejection of claim 1 ... furthermore, such advantage is clearly redundant to the Sharood reference, as taught by the Sharood reference ... hence such modification is clearly redundant, rendering the combination moot,"* the Examiner notes that the references are **ANALOGOUS**, and the rejection is **PROPER** as Sharood teaches method and system of a monitoring device connected to an appliance that receives power from a source and outputs data via communication transceiver over a network, whereas in the same field of art, Hendrickson teaches sensors and consumer accessory devices that supplements functionality of appliance (0001). Here, the reference Hendrickson teaches the specific types and variations of sensors such as chemical sensors, light sensors, photovoltaic sensors, optical sensors, fiber optic sensors, photo resistors, photo diodes (0046), as claimed by the applicant.

(c) In response to applicant argument, *"the rationale is based on ... to enhance the system of appliance monitoring device as disclosed by Sharood with various types of sensors and consumer accessory devices that supplements functionality of appliance (Hendrickson, 11) ... the rationale is conclusory and general, and DOES NOT explain HOW the added sensor are used in the Sharood device, and WHAT is the 'supplement functionality' provided by using these added elements ... thus the rationale is conclusory and*

general … such a conclusory statement is insufficient to establish persuasively that a person of ordinarily skill in the art would have recognized some deficiency in the Sharood reference or had some other reason to look to any other reference and combine its teachings with those of Sharood," the Examiner notes that the references are **ANALOGOUS**, and the rejection is **PROPER** as Sharood teaches method and system of a monitoring device connected to an appliance that receives power from a source and outputs data via communication transceiver over a network, whereas in the same field of art, Hendrickson teaches sensors and consumer accessory devices that supplements functionality of appliance (0001). Here, the reference Hendrickson teaches the specific types and variations of sensors such as chemical sensors, light sensors, photovoltaic sensors, optical sensors, fiber optic sensors, photo resistors, photo diodes (0046), as claimed by the applicant.

ARGUMENT # 33 (Improper rationale) - Pg. 39: In response to applicant argument, *"the Claim 43 depends from claim 42, claim 48 depends from claim 47, and claim 50 depends from claim 49 … however, the SAME rationale is stated for both the parent and the dependent claims, rendering the rationale moot, since they already provide the stated benefit,"* the Examiner notes that the references are **ANALOGOUS**, and the rejection is **PROPER** as Sharood teaches method and system of a monitoring device connected to an appliance that receives power from a source and outputs data via communication transceiver over a network, whereas in the same field of art, Hendrickson teaches sensors and consumer accessory devices that supplements functionality of appliance (0001). Here, the reference Sharood teaches the *sensors* and *gas sensors*, however, the reference Hendrickson teaches the other specific types and variations of sensors such as chemical sensors, light sensors, photovoltaic sensors, optical sensors, fiber optic sensors, photo resistors, photo diodes, proximity sensors, acoustic sensors (0046), as claimed by the applicant.

ARGUMENT # 34 (Claim 41 - Non-analogous reference) - Pg. 40: In response to applicant argument, *"the Action is based on combining the Sharood and Mehta references ... the Applicant submits that the cited references are directed towards respectively different fields and purposes, and are based on respectively different structures, and thus are not analogous to one another and cannot logically be combined ... the Action does not explain, as required by the rules, what is the reasoning behind the combining of the references, and why these references are analogous to each other,"* the Examiner notes that the references are **ANALOGOUS**, and the rejection is **PROPER** as Sharood teaches method and system of a monitoring device connected to an appliance that receives power from a source and outputs data via communication transceiver over a network, whereas in the same field of art, Mehta teaches adding a wide array of chemical, biological and nuclear sensors for sensing and analyzing properties, conditions, and substances present within the environment, and generating alerts for public safety (0002). Here, the reference Mehta is used specifically to teach the limitation of a sensing unit 302 such as a **thermal and radiation sensor** (0029) that responds to radioactivity, nuclear radiation, alpha and beta particles, or gamma rays, as claimed by the applicant.

ARGUMENT # 35 (Improper rationale for combination of the Sharood and Hendrickson references) - Pg. 41: In response to applicant argument # 35, the Examiner notes that the argument heading is about the improper rationale for combination of the Sharood and Hendrickson references, whereas the body of the argument # 35 mentions Sharood and Mehta references, which is **confusing and unclear.** For Examiner's answer purposes it will be assumed here that the applicant's argument # 35 is about the improper rationale for combination of the Sharood and Mehta references.

(a) In response to applicant argument, *"the rationale is based on ... for public safety ... however, the Sharood reference already discloses various safety aspects, such as admitted in the Action itself ... for example, in page 7 it is stated that ... the control server can turn off the appliance before permanent harm*

is done (page 7, lines 1-2) … furthermore, such advantage is clearly redundant to the Sharood reference, as taught by the Sharood reference … hence such modification is clearly redundant, rendering the combination moot," the Examiner notes that the references are **ANALOGOUS**, and the rejection is **PROPER** as Sharood teaches method and system of a monitoring device connected to an appliance that receives power from a source and outputs data via communication transceiver over a network, whereas in the same field of art, Mehta teaches adding a wide array of chemical, biological and nuclear sensors for sensing and analyzing properties, conditions, and substances present within the environment, and generating alerts for public safety (0002). Here, the reference Mehta is used specifically to teach the limitation of a sensing unit 302 such as a **thermal and radiation sensor** (0029) that responds to radioactivity, nuclear radiation, alpha and beta particles, or gamma rays, as claimed by the applicant.

(b) In response to applicant argument, *"it is trivial, inherent, and self-evident that always adding a feature A to any device results in a device having a capability of feature A … similarly, it is trivial, inherent, and self-evident that always adding the functionality of … a wide array of chemical, biological and nuclear sensors results in the rationale of … for sensing and analyzing properties, conditions, and substances present within the environment, and generating alerts for public safety … thus, the Action fails to provide any reasoning WHY any such action is required to start with, and the rationale provides no link to the present application,"* the Examiner notes that the references are **ANALOGOUS**, and the rejection is **PROPER** as Sharood teaches method and system of a monitoring device connected to an appliance that receives power from a source and outputs data via communication transceiver over a network, whereas in the same field of art, Mehta teaches adding a wide array of chemical, biological and nuclear sensors for sensing and analyzing properties, conditions, and substances present within the environment, and generating alerts for public safety (0002). Here, the reference Mehta is used specifically to teach the limitation of a sensing unit 302 such as a **thermal and radiation sensor** (0029) that responds to radioactivity, nuclear radiation, alpha and beta particles, or gamma rays, as claimed by the applicant.

(c) In response to applicant argument, *"clearly the stated rejection improperly uses the application as a motivation to combine the reference,"* the Examiner notes that the references are **ANALOGOUS**, and the rejection is **PROPER** as Sharood teaches method and system of a monitoring device connected to an appliance that receives power from a source and outputs data via communication transceiver over a network, whereas in the same field of art, Mehta teaches adding a wide array of chemical, biological and nuclear sensors for sensing and analyzing properties, conditions, and substances present within the environment, and generating alerts for public safety (0002). Here, the reference Mehta is used specifically to teach the limitation of a sensing unit 302 such as a **thermal and radiation sensor** (0029) that responds to radioactivity, nuclear radiation, alpha and beta particles, or gamma rays, as claimed by the applicant.

ARGUMENT (Note: Claim 45) - Pg. 44: In response to applicant argument, *"Claim 45 depends from claim 32 which was rejected on section 6 solely based on the Sharood reference ... hence, the rejection failed to provide a rationale for combining with the Hendrickson reference regarding this claim and regarding claim 46 that depends from claim 45,"* the Examiner notes that this is a typo, and the Claim 45 is rejected based on Sharood in view of Hendrickson in view of Kiko. The rationale to combine Hendrickson with Sharood is previously stated by the Examiner in the prior sections of the Non-Final Rejection (Pgs. 27-30) as well as here in Examiner's Answer to Appeal Brief which states: Sharood teaches method and system of a monitoring device connected to an appliance that receives power from a source and outputs data via communication transceiver over a network, whereas in the same field of art, Hendrickson teaches sensors and consumer accessory devices that supplements functionality of appliance (0001). The reference Hendrickson teaches the specific types and variations of sensors such as chemical sensors, light sensors, photovoltaic sensors, optical sensors, fiber optic sensors, photo resistors, photo diodes, proximity sensors, acoustic sensors (0046), as claimed by the applicant. And further, the rationale to combine Kiko with Sharood is also previously stated by the Examiner in the prior sections of the Non-Final

Rejection (Pgs. 22-27) as well as here in Examiner's Answer to Appeal Brief which states: the Examiner notes that Sharood teaches method and system of a monitoring device connected to an appliance that receives power from a source and outputs data via communication transceiver over a wireless or wired network, whereas in the same field of art, Kiko teaches a RF interface to add in various different types of **wireless broadband access technologies** to gain access to remote nodes (Kiko, 0208).

ARGUMENT # 36 (Improper rationale for combination of references) - Pg. 44:

(a) In response to applicant argument, *"while the claims recites different sensors, the SAME rationale is used for ALL claims ... hence, inherently the rationale provides no link to the specific claim,"* the Examiner notes that the references are **ANALOGOUS**, and the rejection is **PROPER** as Sharood teaches method and system of a monitoring device connected to an appliance that receives power from a source and outputs data via communication transceiver over a network, whereas in the same field of art, Hendrickson teaches sensors and consumer accessory devices that supplements functionality of appliance (0001). The reference Hendrickson teaches the specific types and variations of sensors such as chemical sensors, light sensors, photovoltaic sensors, optical sensors, fiber optic sensors, photo resistors, photo diodes, proximity sensors, acoustic sensors (0046), as claimed by the applicant. Further, the rationale to combine Kiko with Sharood is that Sharood teaches method and system of a monitoring device connected to an appliance that receives power from a source and outputs data via communication transceiver over a wireless or wired network, whereas in the same field of art, Kiko teaches a RF interface to add in various different types of **wireless broadband access technologies** to gain access to remote nodes (Kiko, 0208).

(b) In response to applicant argument, *"however, the Sharood reference already discloses various wireless interfaces, as admitted in the Action itself in the rejection of claim 1 ... furthermore, such advantage is clearly redundant to the Sharood reference, as taught by the Sharood reference ... hence such modification is clearly redundant, rendering the combination moot. It is noted that where the secondary*

reference disclosed an advantage, and where the primary reference already possessed that advantage," the Examiner notes that the references are **ANALOGOUS**, and the rejection is **PROPER** as Sharood teaches method and system of a monitoring device connected to an appliance that receives power from a source and outputs data via communication transceiver over a network, whereas in the same field of art, Hendrickson teaches sensors and consumer accessory devices that supplements functionality of appliance (0001). The reference Hendrickson teaches the specific types and variations of sensors such as chemical sensors, light sensors, photovoltaic sensors, optical sensors, fiber optic sensors, photo resistors, photo diodes, proximity sensors, acoustic sensors (0046), as claimed by the applicant. Further, the rationale to combine Kiko with Sharood is that Sharood teaches method and system of a monitoring device connected to an appliance that receives power from a source and outputs data via communication transceiver over a wireless or wired network, whereas in the same field of art, Kiko teaches a RF interface to add in various different types of **wireless broadband access technologies** to gain access to remote nodes (Kiko, 0208). Here, Kiko teaches temperature sensors (0023), motion sensor, camera sensor (0111), location sensors (0113), multiple pressure sensors, conductivity sensors, and/or flow sensors discloses (0116), and the hardware of such devices may be integrated onto a silicon "die" (0082), as claimed by the applicant.

(c) In response to applicant argument, *"the rationale is conclusory and general, and DOES NOT explain HOW the added RF interface is used in the Sharood device, and WHAT is the 'supplement functionality' provided by using these added elements ... such a conclusory statement is insufficient to establish persuasively that a person of ordinarily skill in the art would have recognized some deficiency in the Sharood reference or had some other reason to look to any other reference and combine its teachings with those of Sharood,"* the Examiner notes that the references are **ANALOGOUS**, and the rejection is **PROPER** as Sharood teaches method and system of a monitoring device connected to an appliance that receives power from a source and outputs data via communication transceiver over a network, whereas in the same field of art, Hendrickson teaches sensors and consumer accessory devices that supplements

functionality of appliance (0001). The reference Hendrickson teaches the specific types and variations of sensors such as chemical sensors, light sensors, photovoltaic sensors, optical sensors, fiber optic sensors, photo resistors, photo diodes, proximity sensors, acoustic sensors (0046), as claimed by the applicant. Further, the rationale to combine Kiko with Sharood is that Sharood teaches method and system of a monitoring device connected to an appliance that receives power from a source and outputs data via communication transceiver over a wireless or wired network, whereas in the same field of art, Kiko teaches a RF interface to add in various different types of **wireless broadband access technologies** to gain access to remote nodes (Kiko, 0208). Here, Kiko teaches temperature sensors (0023), motion sensor, camera sensor (0111), location sensors (0113), multiple pressure sensors, conductivity sensors, and/or flow sensors discloses (0116), and the hardware of such devices may be integrated onto a silicon "die" (0082), as claimed by the applicant.

(d) In response to applicant argument, *"First, there is no link between the cited paragraph 0208 and the stated rationale … second, the claims 44-46 involves photoelectric and image sensors … thus, the recited limitations are NOT relevant to any communication features in general, to any RF interface in particular, or to any various different types of access technologies to gain access to remote nodes, rendering the rationale irrelevant and moot,"* the Examiner notes that *Kiko* Paragraph [0208] does not starts with "FIG. 13a shows the interconnection between a switch/hub 1302 …," as stated by the applicant. Rather, the *Kiko* reference Paragraph [0208] teaches a RF interface to add in various different types of **wireless broadband access technologies** to gain access to remote nodes and it begins with the sentence: *As described above, the present invention provides methods and apparatus that allow for remote control of a premises automation system using a computer connected to a local area network, WLAN, PAN, or to the Internet.* Also, the Examiner notes that here particularly the Kiko reference teaches temperature sensors (0023), motion sensor, camera sensor (0111), location sensors (0113), multiple pressure sensors,

conductivity sensors, and/or flow sensors discloses (0116), and the hardware of such devices may be integrated onto a silicon "die" (0082).

ARGUMENT # 37 (Non-analogous reference) - Pg. 47: In response to applicant argument, *"the Applicant submits that the cited references are directed towards respectively different fields and purposes, and are based on respectively different structures, and thus are not analogous to one another and cannot logically be combined ... the Action does not explain, as required by the rules, what is the reasoning behind the combining of the references, and why these references are analogous to each other,"* the Examiner notes that the references are **ANALOGOUS**, and the rejection is **PROPER** as Sharood teaches method and system of a monitoring device connected to an appliance that receives power from a source and outputs data via communication transceiver over a network, whereas in the same field of art, Ansari teaches by 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 (0001).

ARGUMENT # 38 (Improper rationale for combination of the references) - Pg. 48:

(a) In response to applicant argument, *"while the claims 61, 63, and 64 recite different sensors, the SAME rationale is used for ALL claims ...hence, inherently the rationale provides no link to the specific claim ... it is noted that the technology was not evolved to use ONLY a single wireless technology, various communication technologies have been developed for a reason, since each technology is adapted to a specific scenario, application, and medium. Hence different reasoning and rationale should be used for using each technology ... in particular, some of the wireless technologies do not lend themselves to be used in Building Automation as described by the Sharood reference ... further, claims 63 and 64 depend from claim 61, hence the SAME rationale is redundant ... further, such modification is clearly redundant,*

rendering the combination moot," the Examiner notes that the references are **ANALOGOUS**, and the rejection is **PROPER** as Sharood teaches method and system of a monitoring device connected to an appliance that receives power from a source and outputs data via communication transceiver over a network, whereas in the same field of art, Ansari teaches by 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 (0001). Here, the Ansari reference is specifically used to teach the limitation of assigning an IP address to an endpoint device in a wireless network (0096) using the DHCP server (0116), as claimed by the applicant.

(b) In response to applicant argument, *"the rationale is conclusory and general, and DOES NOT explain HOW the added sensor are used in the Sharood device, and WHAT are the 'added services' provided by using these added elements ... thus the rationale is conclusory and general ... such a conclusory statement is insufficient to establish persuasively that a person of ordinarily skill in the art would have recognized some deficiency in the Sharood reference or had some other reason to look to any other reference and combine its teachings with those of Sharood,"* the Examiner notes that the references are **ANALOGOUS**, and the rejection is **PROPER** as Sharood teaches method and system of a monitoring device connected to an appliance that receives power from a source and outputs data via communication transceiver over a network, whereas in the same field of art, Ansari teaches by 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 (0001). Here, the Ansari reference is specifically used to teach the limitation of assigning an IP address to an endpoint device in a wireless network (0096) using the DHCP server (0116), as claimed by the applicant.

(c) In response to applicant argument, *"the retrofit plug 125 in the Sharood reference already, as admitted in the rejection of claim 1, provides the functionality of exposing its presence in a network for controlling an appliance,"* the Examiner notes that the references are **ANALOGOUS**, and the rejection is **PROPER** as Sharood teaches method and system of a monitoring device connected to an appliance that receives power from a source and outputs data via communication transceiver over a network, whereas in the same field of art, Ansari teaches by 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 (0001). Here, the Ansari reference is specifically used to teach the limitation of assigning an IP address to an endpoint device in a wireless network (0096) using the DHCP server (0116), as claimed by the applicant.

(d) In response to applicant argument, *"it is trivial, inherent, and self-evident that always adding a feature A to any device results in a device having a capability of feature A ... similarly, it is trivial, inherent, and self-evident that always adding the functionality of addressing mechanism results in the rationale of ... 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 ... thus, the Action fails to provide any reasoning WHY any such action is required to start with, and the rationale provides no link to the present application,"* the Examiner notes that the references are **ANALOGOUS**, and the rejection is **PROPER** as Sharood teaches method and system of a monitoring device connected to an appliance that receives power from a source and outputs data via communication transceiver over a network, whereas in the same field of art, Ansari teaches by 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 (0001). Here, the Ansari reference is specifically used to teach the limitation of assigning an IP

address to an endpoint device in a wireless network (0096) using the DHCP server (0116), as claimed by the applicant.

(e) In response to applicant argument, *"the Action clearly misrepresent the passage from the Ansari reference, which is clearly directed to a 'gateway device' and NOT to any addressing schemes as recited in the claims,"* the Examiner notes that the reference Ansari teaches 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 (0001). Here, the Ansari reference is specifically used to teach the limitation of assigning an IP address to an endpoint device in a wireless network (0096) using the DHCP server (0116), as claimed by the applicant.

ARGUMENT (NOTE: Claim 62) - Pg. 52: In response to applicant argument, *"Claim 62 depends from claim 61 which was rejected on section 13 based on combining with the Ansari reference … hence, the rejection should be based on both the Ansari and Wong references,"* the Examiner notes that this is a typo, and the Claim 62 is rejected based on Sharood in view of Ansari and further in view of Wong. The rationale to combine Ansari with Sharood is stated by the Examiner as: Sharood teaches method and system of a monitoring device connected to an appliance that receives power from a source and outputs data via communication transceiver over a network, whereas in the same field of art, Ansari teaches by 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 (0001). Here, the Ansari reference is specifically used to teach the limitation of assigning an IP address to an endpoint device in a wireless network (0096) using the DHCP server (0116), as claimed by the applicant. Further, the rationale to combine Wong with Sharood in view of Ansari is stated by the Examiner as: Sharood in view of Ansari

teaches method and system of a monitoring device connected to an appliance that receives power from a source and outputs data via communication transceiver over a network, whereas in the same field of art, Wong teaches 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 the IEEE 802.11 wireless networking standard (Wi-Fi) to a wireless network access point (0014).

ARGUMENT # 39 (Non-analogous reference) - Pg. 52: In response to applicant argument, *"the Applicant submits that the cited references are directed towards respectively different fields and purposes, and are based on respectively different structures, and thus are not analogous to one another and cannot logically be combined ... the Action does not explain, as required by the rules, what is the reasoning behind the combining of the references, and why these references are analogous to each other,"* the Examiner notes that the references are **ANALOGOUS**, and the rejection is **PROPER** as Sharood in view of Ansari teaches method and system of a monitoring device connected to an appliance that receives power from a source and outputs data via communication transceiver over a network, whereas in the same field of art, Wong teaches 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 the IEEE 802.11 wireless networking standard (Wi-Fi) to a wireless network access point (0014). Here, the Wong reference is used to specifically teach the limitation of the sensor information section that displays the sensor name, position, MAC address (Figs. 17 and 18) among other information (0151).

ARGUMENT # 40 (Improper rationale for combination of the references) - Pg. 52:

(a) In response to applicant argument, *"the Action clearly misrepresent the passage from the Wong reference, and further fails to explain WHY and HOW the recited limitation of the various addressing schemes relates in any way to the benefit of ... to transmit AC power values calculated based on the*

measured AC voltage and AC current in accordance with the IEEE 802.11 wireless networking standard (Wi-Fi) to a wireless network access point," the Examiner notes that the references are **ANALOGOUS**, and the rejection is **PROPER** as Sharood in view of Ansari teaches method and system of a monitoring device connected to an appliance that receives power from a source and outputs data via communication transceiver over a network, whereas in the same field of art, Wong teaches 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 the IEEE 802.11 wireless networking standard (Wi-Fi) to a wireless network access point (0014). Here, the Wong reference is used to specifically teach the limitation of the sensor information section that displays the sensor name, position, MAC address (Figs. 17 and 18) among other information (0151).

(b) In response to applicant argument, *"it is respectfully submitted that adding address to a sensor is NOT a service by itself but at best a mean to provide a service,"* the Examiner notes that Wong teaches 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 the IEEE 802.11 wireless networking standard (Wi-Fi) to a wireless network access point (0014). Here, the Wong reference is used to specifically teach the limitation of the sensor information section that displays the sensor name, position, MAC address (Figs. 17 and 18) among other information (0151).

(c) In response to applicant argument, *"Claim 62 is dependent from claim 61, which discloses the mechanism of assigning addresses to sensors, as admitted in the rejection of claim 61 ... hence, the stated advantage is clearly redundant to the Sharood reference combined with the Ansari reference as stated in the rejection of claim 61 ... hence, the Sharood / Ansari combination already discloses various sensors and consumer accessory devices, as admitted in the Action itself in the rejection of claim 61, and already provides the benefit of... by adding services (such as assigning unique addresses to sensors),"* the Examiner notes that the Claim 62 is rejected based on Sharood in view of Ansari and further in view of Wong. The

rationale to combine Ansari with Sharood is stated by the Examiner as: Sharood teaches method and system of a monitoring device connected to an appliance that receives power from a source and outputs data via communication transceiver over a network, whereas in the same field of art, Ansari teaches by 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 (0001). Here, the Ansari reference is specifically used to teach the limitation of assigning an IP address to an endpoint device in a wireless network (0096) using the DHCP server (0116), as claimed by the applicant. Further, the rationale to combine Wong with Sharood in view of Ansari is stated by the Examiner as: Sharood in view of Ansari teaches method and system of a monitoring device connected to an appliance that receives power from a source and outputs data via communication transceiver over a network, whereas in the same field of art, Wong teaches 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 the IEEE 802.11 wireless networking standard (Wi-Fi) to a wireless network access point (0014). Here, the Wong reference is used to specifically teach the limitation of the sensor information section that displays the sensor name, position, MAC address (Figs. 17 and 18) among other information (0151).

(d) In response to applicant argument, *"the rationale is the rejection of the parent claim 61 is based on "wide area network" and NOT local area network as stated in this rationale ... furthermore, claim 62 is directed to Layer-2 addressing, and not to Layer-2 addressing (IP layer) relating to a Wide Area Network as started in the rationale,"* the Examiner notes that the rejection rationale **DOES NOT** state any local area network. The Claim 62 is directed to **MAC address**, and similarly Wong (Figs. 17, 18 and 0151) teaches the display with sensor name, position, **MAC address** and other information.

(e) In response to applicant argument, *"the rationale is conclusory and general, and DOES NOT explain HOW the added sensor are used in the Sharood device, and WHAT is the 'added services' provided*

by using these added elements … thus the rationale is conclusory and general ... such a conclusory statement is insufficient to establish persuasively that a person of ordinarily skill in the art would have recognized some deficiency in the Sharood reference or had some other reason to look to any other reference and combine its teachings with those of Sharood," the Examiner notes that the references are **ANALOGOUS**, and the rejection is **PROPER** as Sharood in view of Ansari teaches method and system of a monitoring device connected to an appliance that receives power from a source and outputs data via communication transceiver over a network, whereas in the same field of art, Wong teaches 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 the IEEE 802.11 wireless networking standard (Wi-Fi) to a wireless network access point (0014). Here, the Wong reference is used to specifically teach the limitation of the sensor information section that displays the sensor name, position, MAC address (Figs. 17 and 18) among other information (0151).

For the above reasons, it is believed that the rejections should be sustained.

Respectfully submitted,

/H. A. K./
Examiner, Art Unit 2456

Conferees (01/10/2020):

/JOE CHACKO/
Primary Examiner, Art Unit 2456

/PHILIP J CHEA/
Supervisory Patent Examiner, Art Unit 2456

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

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

CLAIMS

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

CLAIM		DATE								
Final	Original	08/15/2018	09/21/2018	01/11/2019	04/09/2019	05/06/2019	10/12/2019	02/14/2020		
	1	÷	✓	✓	✓	✓	✓	✓		
	2	÷	N	✓	✓	✓	✓	✓		
	3	÷	N	✓	✓	✓	✓	✓		
	4	÷	N	✓	✓	✓	✓	✓		
	5	÷	N	✓	✓	✓	✓	✓		
	6	÷	N	✓	✓	✓	✓	✓		
	7	÷	✓	✓	✓	✓	✓	✓		
	8	÷	N	✓	✓	✓	✓	✓		
	9	÷	✓	✓	✓	✓	✓	✓		
	10	÷	✓	✓	✓	✓	✓	✓		
	11	÷	N	✓	✓	✓	✓	✓		
	12	÷	N	N	N	N	✓	✓		
	13	÷	N	N	N	N	✓	✓		
	14	÷	N	N	N	N	✓	✓		
	15	÷	N	N	N	N	✓	✓		
	16	÷	N	N	N	N	✓	✓		
	17	÷	N	N	N	N	✓	✓		
	18	÷	N	N	N	N	✓	✓		
	19	÷	N	N	N	N	✓	✓		
	20	÷	N	N	N	N	✓	✓		
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	22	÷	N	N	N	N	✓	✓		
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	27	÷	N	N	N	N	✓	✓		
	28	÷	N	N	N	N	✓	✓		
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	31	÷	N	N	N	N	✓	✓		
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	33	÷	N	N	N	N	✓	✓		
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	35	÷	N	N	N	N	✓	✓		
	36	÷	N	N	N	N	✓	✓		
	37	÷	N	N	N	N	✓	✓		
	38	÷	N	N	N	N	✓	✓		
	39	÷	N	N	N	N	✓	✓		
	40	÷	N	N	N	N	✓	✓		
	41	÷	N	N	N	N	✓	✓		
	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		
	43	÷	N	N	N	N	✓	✓		
	44	÷	N	N	N	N	✓	✓		
	45	÷	N	N	N	N	✓	✓		
	46	÷	N	N	N	N	✓	✓		
	47	÷	N	N	N	N	✓	✓		
	48	÷	N	N	N	N	✓	✓		
	49	÷	N	N	N	N	✓	✓		
	50	÷	N	N	N	N	✓	✓		
	51	÷	N	N	N	N	✓	✓		
	52	÷	N	N	N	N	✓	✓		
	53	÷	N	N	N	N	✓	✓		
	54	÷	N	N	N	N	✓	✓		
	55	÷	N	N	N	N	✓	✓		
	56	÷	N	N	N	N	✓	✓		
	57	÷	N	N	N	N	✓	✓		
	58	÷	N	N	N	N	✓	✓		
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	62	÷	N	N	N	N	✓	✓		
	63	÷	N	N	N	N	✓	✓		
	64	÷	N	N	N	N	✓	✓		

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

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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
	1	9821344		2017-11-21	Fabio Zsigmond	
	2	9908153		2018-03-06	Fabio Zsigmond	
	3	10213810		2019-02-26	Fabio Zsigmond	
	4	10232408		2019-03-19	Fabio Zsigmond	
	5	10239094		2019-03-26	Fabio Zsigmond	
	6	9165320		2015-10-20	Brandon W. Belvin	
	7	10026116		2018-07-17	Meir ZOHAR	
	8	6813221		2004-11-02	Craig Barr	

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	9	6546297		2003-04-08	MICHAEL T. GASTON	

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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	20150362954	A1	2015-12-17	MEIR ZOHAR	
	2	20180137462	A1	2018-05-17	MEIR ZOHAR	
	3	20060220830	A1	2006-10-05	Raymond Walden Bennett	
	4	20090076827	A1	2009-03-19	Clemens Bulitta	
	5	20090271002	A1	2009-10-29	David Asofsky	
	6	20070283005	A1	2007-12-06	Robert P. Beliles	
	7	20150324706	A1	2015-11-12	Jeremy B. Warren	
	8	20010041982	A1	2001-11-15	Toshinobu Kawasaki	

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	9	20150138333	A1	2015-05-21	Richard Wayne DeVaul	
	10	20080130520	A1	2008-06-05	Matthew P. Ebrom	
	11	20090046715	A1	2009-02-19	RICHARD A. MCCOY	
	12	20010025349	A1	2001-09-27	John N. Sharood	
	13	20110170377	A1	2011-07-14	Ferdinand Villegas Legaspi	
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	15	20130235197	A1	2013-09-12	MATTHEW P. EBROM	
	16	20110148651	A1	2011-06-23	Michael S. Hendrickson	
	17	20110298301	A1	2011-12-08	Simon Wong	
	18	20100298957	A1	2010-11-25	Jaime Sanchez Rocha	
	19	20100211359	A1	2010-08-19	Neelesh B. Mehta	

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See attached certification statement.

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

A certification statement is not submitted herewith.

SIGNATURE

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

Signature	/Yehuda Binder/	Date (YYYY-MM-DD)	2019-11-14
Name/Print	Yehuda Binder	Registration Number	73612

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

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Doc description: Information Disclosure Statement (IDS) Filed

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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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	1	20120034904	A1	2012-02-09	Michael J. LeBeau	
	2	20090055019	A1	2009-02-26	Walter Dan Stiehl	
	3	20050216121	A1	2005-09-29	Tsutomu Sawada	
	4	20020198626	A1	2002-12-26	Michita Imai	

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

	1							

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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		

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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)	2020-01-05
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($)
Miscellaneous:				
SUBMISSION- INFORMATION DISCLOSURE STMT	2806	1	120	120
		Total in USD ($)		**120**

Electronic Acknowledgement Receipt	
EFS ID:	38232305
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:	08-JAN-2020
Filing Date:	30-MAY-2018
Time Stamp:	06:55:40
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	E202018756100757
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)	IDS10.pdf	1034494 6607e05d0d136cd3e41f8f523ac58d53724edfcd	no	4
Warnings:					
Information:					
2	Fee Worksheet (SB06)	fee-info.pdf	30082 333c9d6bdcbdf73abd3f921f3e9b36babbcdf88c	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	1064576		

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New Applications Under 35 U.S.C. 111

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

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

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

New International Application Filed with the USPTO as a Receiving Office

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

PTO/SB/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	9821344		2017-11-21	Fabio Zsigmond	
	2	9908153		2018-03-06	Fabio Zsigmond	
	3	10213810		2019-02-26	Fabio Zsigmond	
	4	10232408		2019-03-19	Fabio Zsigmond	
	5	10239094		2019-03-26	Fabio Zsigmond	
	6	9165320		2015-10-20	Brandon W. Belvin	
	7	10026116		2018-07-17	Meir ZOHAR	
	8	6813221		2004-11-02	Craig Barr	

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

	9	6546297		2003-04-08	MICHAEL T. GASTON	

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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	20150362954	A1	2015-12-17	MEIR ZOHAR	
	2	20180137462	A1	2018-05-17	MEIR ZOHAR	
	3	20060220830	A1	2006-10-05	Raymond Walden Bennett	
	4	20090076827	A1	2009-03-19	Clemens Bulitta	
	5	20090271002	A1	2009-10-29	David Asofsky	
	6	20070283005	A1	2007-12-06	Robert P. Beliles	
	7	20150324706	A1	2015-11-12	Jeremy B. Warren	
	8	20010041982	A1	2001-11-15	Toshinobu Kawasaki	

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

	9	20150138333	A1	2015-05-21	Richard Wayne DeVaul	
	10	20080130520	A1	2008-06-05	Matthew P. Ebrom	
	11	20090046715	A1	2009-02-19	RICHARD A. MCCOY	
	12	20010025349	A1	2001-09-27	John N. Sharood	
	13	20110170377	A1	2011-07-14	Ferdinand Villegas Legaspi	
	14	20080031139	A1	2008-02-07	Keiro Muro	
	15	20130235197	A1	2013-09-12	MATTHEW P. EBROM	
	16	20110148651	A1	2011-06-23	Michael S. Hendrickson	
	17	20110298301	A1	2011-12-08	Simon Wong	
	18	20100298957	A1	2010-11-25	Jaime Sanchez Rocha	
	19	20100211359	A1	2010-08-19	Neelesh B. Mehta	

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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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]
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Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]
	1		

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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)		
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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).

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See attached certification statement.

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

A certification statement is not submitted herewith.

SIGNATURE

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

Signature	/Yehuda Binder/	Date (YYYY-MM-DD)	2019-11-14
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.

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

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

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:	37759374
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:	15-NOV-2019
Filing Date:	30-MAY-2018
Time Stamp:	05:29:28
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	E2019AE629462412
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	Notice of Appeal Filed	Second-aia0031.pdf	236236 ff39c465c7241b06cdc00325bd57e958c60f168a	no	2
Warnings:					
Information:					
2	Appeal Brief Filed	Second-Appeal-Brief-after-re-opening.pdf	266262 e66c44e15c27686d44c312d627e77b547d969ed7	no	67
Warnings:					
Information:					
3	Information Disclosure Statement (IDS) Form (SB08)	IDS9.pdf	1035501 6e80008f0f23e2649ffeae76d9eff7beedc9b383	no	6
Warnings:					
Information:					
4	Fee Worksheet (SB06)	fee-info.pdf	30083 952b4314eb301cdd2cdab71bb4a11d137e039243	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	1568082		

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/AIA/31 (03-14)
Approved for use through 07/31/2016. 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 displays a valid OMB control number.

NOTICE OF APPEAL FROM THE EXAMINER TO THE PATENT TRIAL AND APPEAL BOARD

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, on 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

Applicant hereby **appeals** to the Patent Trial and Appeal Board from the last decision of the examiner.

The fee for this Notice of Appeal is (37 CFR 41.20(b)(1)) $ _____

☐ Applicant asserts small entity status. See 37 CFR 1.27. Therefore, the fee shown above is reduced by 50%, and the resulting fee is: $ _____

☐ Applicant 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. _____.

☐ Payment made via EFS-Web.

☐ A petition for an extension of time under 37 CFR 1.136(a) (PTO/AIA/22 or equivalent) is enclosed.
For extensions of time in reexamination proceedings, see 37 CFR 1.550.

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I am the

☐ applicant

☑ 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 -972-544444577

Date 2019-11-15

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7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (*i.e.*, GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
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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	)	November 15, 2019
	)	

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:

APPEAL BRIEF

Appellant submit this Appeal Brief to the PATENT TRIAL AND APPEALS BOARD (PTAB) 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.

Real Party of Interest

The real party in interest is May Patents Ltd., the assignee of record.

Related Appeals and Interferences

Appeal No. 2018-007694 was docketed July 25, 2018, from parent application 13/733,634 that claims the same priority and includes the same specifications as this application. This appeal may be related to, directly affect or be directly affected by, or have a bearing on the Board's decision in the pending appeal.

Appeal No. 2019-002056 was docketed January 15, 2019, from co-pending patent application 16/657,163 that claims the same priority and includes the same specifications as this application. This appeal may be related to, directly affect or be directly affected by, or have a bearing on the Board's decision in the pending appeal.

Appeal No. 2019-000272 was docketed October 12, 2018, from co-pending patent application 15/361,434 that claims the same priority and includes the same specifications as this application. This appeal may be related to, directly affect or be directly affected by, or have a bearing on the Board's decision in the pending appeal.

Appeal No. 2019-002059 was docketed January 15, 2019, from co-pending patent application 15/716,881 that claims the same priority and includes the same specifications as this application. This appeal may be related to, directly affect or be directly affected by, or have a bearing on the Board's decision in the pending appeal.

A notice of appeal and appeal brief was filed on August 4, 2019, not yet docketed, from co-pending patent application

15/992,219 that claims the same priority and includes the same specifications as this application. This appeal may be related to, directly affect or be directly affected by, or have a bearing on the Board's decision in the pending appeal.

Status of Claims

Claims 1-64 are pending in the application, and are attached in Appendix A. The pending claims stand rejected in the Non-Final Action dated October 31, 2019 under 35 U.S.C. §102(b) and §103(a).

Status of Amendments

No amendments have been made to the pending claims.

Summary of Claimed Subject Matter

Claim 1 discloses an Alternating-Current (AC)-powered appliance (such as item 50e or 58a in Figure 5e) associated with food storage, handling, or preparation (page 181, lines 6-11) for use with a wireless network. The appliance comprising an AC connector (such as item 59f, 59g, or 59h, in Figure 5e) for connecting the appliance to an AC power source; a current sensor (such as item 57a or 57b in Figure 5e) coupled to the AC connector for measuring an AC current consumed by the appliance; an antenna (such as item 55 in Figure 5e) for communication over the wireless network; a wireless transceiver (such as item 54 in Figure 5e) coupled to the antenna for transmitting digital data to, and for receiving digital data from, the wireless network; and a single enclosure (such as item 50e in Figure 5e) housing the current sensor, the antenna, and the wireless transceiver. The appliance is controlled or activated in response to digital data received from the wireless network (Figure 17), and the

current sensor is coupled to the wireless transceiver for transmitting digital data in response to the measured AC current to the wireless network (page 112, lines 5-12; Figure 5e; Figure 17).

Argument

Ground of Rejection to be Reviewed on Appeal

Office Action, section 6 pages 3-15

Claims 1-7, 9-10, 12-19, 32-34, 36 and 54-60 are rejected under 35 U.S.C. 102(b) as being unpatentable over Sharood *et al.* (US 2001/0025349 - hereinafter "Sharood").

Argument #1: Improper rejection - Unclear conclusory rejection

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. ""*when a rejection is so uninformative that it prevents the applicant from recognizing and seeking to counter the grounds for rejection" that the prima facie burden has not been met and the rejection violates the minimal requirements of 35 U.S.C. § 132*". Chester v. Miller, 906 F.2d 1574, 1578 (Fed. Cir. 1990). It is further noted that "*When a reference is complex or shows or describes inventions other than that claimed by the applicant, the particular part relied on must be designated as nearly as practicable. The pertinence of each reference, if not apparent, must be clearly explained and each rejected claim specified.*" [See 37 C.F.R. § 1.104(c)(2)].

Argument #2: Improper picking and choosing

a. 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. Further, even the name "**retrofit** plug" indicate external element used with existing unchanged appliance. It is well settled that to anticipate under § 102, a prior-art reference "*must not only disclose all elements within the four comers of the document, but* ***must also disclose those elements arranged as in the claim.***" (Emphasis added) Net Moneyin, Inc. v. Verisign, Inc., 545 F.3d 1359, 1369 (Fed. Cir. 2008), and that "*Absent from a reference of any claimed element negates anticipation*". Kloster Speedsteel AB v. Crucible, Inc., 793 F.2d 1565, 1571 (Fed. Cir. 1986). It is further noted that MPEP 2114 (III) states that "*PRIOR ART DEVICE CAN PERFORM ALL THE FUNCTIONS OF THE APPARATUS CLAIM AND STILL NOT ANTICIPATE THE CLAIM*". In addition, it is settled that "*[T]he [prior art] reference must clearly and unequivocally disclose the claimed [invention] or direct those skilled in the art to the [invention]* ***without any need for picking, choosing, and combining various disclosures*** *not directly related to each other by the teachings of the cited reference.*" (Emphasis added) In re Arkley, 455 F.2d 586, 587 (CCPA 1972).

It is further noted that the Action itself admits that the appliance and the retrofit plug are separated and are ONLY electrically connected. For example, on page 3 at line 18 the Action states that: "*Sharood discloses (¶5) a monitoring device* ***connected*** *to an appliance …*" (Emphasis added), and on page 5 at lines 11-12 the Action states that: "*Sharood*

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discloses an appliance 130 such as a refrigerator or an over (¶93) ***connected*** *to a retrofit plug 125…"* (Emphasis added).

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. As stated in MPEP 2141.02, "… *the examiner may not pick and choose elements from several references to support an obviousness determination*". *Further:*

> *When a prior art reference discloses multiple, distinct embodiments, combining teachings from those distinct embodiments requires an obviousness analysis, including a demonstration of why one of ordinary skill would be motivated to combine those disparate teachings." Symantec, at 20 (citing 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)).*

c. Furthermore, the Sharood reference actually teaches away from any combination of the retrofit plug 125 and an appliance 130. The principal reason for using the retrofit plug is to add control functionality to legacy devices, without any modifications of these legacy devices, as disclosed on paragraph 0074 of the Sharood reference that state (Emphasis added):

> *[0074] Referring again to FIG. 1, control modules (e.g., [0074] 120 and 125)* ***allow legacy appliances that have already been purchased by a homeowner*** *or commercial operator to be integrated into a home automation system. This is important because appliances are expensive and have relatively long operational lives.* ***As a result, appliances typically are not replaced until failure. Therefore, for existing appliances to be incorporated in a total home or commercial automation system, an interface***

> ***is needed to allow communication with the automation system so that a user is not forced to buy a network ready appliance.*** *The control modules provide such an interface in a form that can be installed easily by the homeowner or business operator.*

Similarly, paragraph 0075 of the Sharood reference teaches that:

> *In addition, manufacturers may not wish to sell devices that are network/system compliant due to the added cost associated with outfitting the appliance with the necessary software and control circuitry.*

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; … 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 rejection is based on paragraph 0089 of the Sharood reference that discloses "… *the measure and transmit circuitry 620 in the retrofit plug can monitor and report the current drawn by the attached appliance 130*" – It is noted that such current monitoring or reporting does not necessarily teach any 'current sensor' as recited. It is noted that "*An anticipation rejection cannot be predicated on an ambiguous reference. Rather, disclosures in a reference relied on to prove anticipation must be so clear and explicit that those skilled in the art will have no difficulty in ascertaining their meaning" [In re Turlay, 304 F.2d 893, 899 (CCPA 1962)],* and that "*A claim limitation is inherent in the prior art if it is necessarily present in the prior art, not merely probably or possibly present*" [Rosco v. Mirror Lite, 304 F.3d 1373, 1380 (Fed. Cir. 2002)].

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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.*".

a. The Action is based on paragraph 93 of the Sharood reference that mentions "refrigerator, over, washer, dryer". However, the Sharood reference in general, and the cited paragraph 93in particular, fail to disclose any of the appliances recited in the claim. It is noted that an anticipation rejection requires an element-by-element analysis of each claim. See Bristol-Myers Squibb Co. v. Ben Venue Labs., Inc., 246 F.3d 1368, 1374 (Fed. Cir. 2001). Further, an anticipation rejection must establish that a reference not only discloses all elements of the claim within the four corners of the document, but that the reference also discloses those elements arranged as in the claim. Net MoneyIn, 545 F.3d at 1369.

b. The Action seems to be based on the general teaching of "home appliances" in the Sharood reference. However, "*[D]ifferences between the prior art reference and the claimed invention, however slight, invoke the question of obviousness, not anticipation*." [In re Arkley, 455 F.2d 586, 587 (CCPA 1972)].

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

Argument #5: Improper picking and choosing

a. 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. It is submitted that "*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.*", and that "*[T]he [prior art] reference must clearly and unequivocally disclose the claimed [invention] or direct those skilled in the art to the [invention] without any need for picking, choosing, and combining various disclosures not directly related to each other by the teachings of the cited reference.*" [In re Arkley, 455 F.2d 586, 587 (CCPA 1972)].

b. Further, 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. It is noted that "*if a reference is ambiguous and can be interpreted so that it may or may no [sic] constitute an anticipation of an appellant's claims, an anticipation rejection under 35 U.S.C. § 102 based upon the ambiguous reference is improper.*" [In re Brink, 419 F.2d 914, 917 (CCPA 1970)].

Claim 34.

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

Claim 34 recites that "… *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*". 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.

Argument #7: Improper picking and choosing

a. 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. It is well settled that to anticipate under § 102, a prior-art reference "*must not only disclose all elements within the four comers of the document, but must also disclose those elements arranged as in the claim.*" Net Moneyin, Inc. v. Verisign, Inc., 545 F.3d 1359, 1369 (Fed. Cir. 2008), and further it is submitted that "*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.*", and that "*[T]he [prior art] reference must clearly and unequivocally*

disclose the claimed [invention] or direct those skilled in the art to the [invention] without any need for picking, choosing, and combining various disclosures not directly related to each other by the teachings of the cited reference." [In re Arkley, 455 F.2d 586, 587 (CCPA 1972)].

b. Further, 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. It is noted that "*if a reference is ambiguous and can be interpreted so that it may or may no [sic] constitute an anticipation of an appellant's claims, an anticipation rejection under 35 U.S.C. § 102 based upon the ambiguous reference is improper.*" [In re Brink, 419 F.2d 914, 917 (CCPA 1970)].

Claim 36.

Argument #8: Improper picking and choosing

a. 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. It is well settled that to anticipate under § 102, a prior-art reference "*must not only disclose all elements within the four comers of the document, but must also disclose those elements arranged as in the claim.*" Net Moneyin, Inc. v. Verisign, Inc., 545 F.3d 1359, 1369 (Fed. Cir. 2008), and further it is submitted

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that "*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.*", and that "[*T]he [prior art] reference must clearly and unequivocally disclose the claimed [invention] or direct those skilled in the art to the [invention] without any need for picking, choosing, and combining various disclosures not directly related to each other by the teachings of the cited reference.*" [In re Arkley, 455 F.2d 586, 587 (CCPA 1972)].

b. Further, 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. It is noted that "*if a reference is ambiguous and can be interpreted so that it may or may no [sic] constitute an anticipation of an appellant's claims, an anticipation rejection under 35 U.S.C. § 102 based upon the ambiguous reference is improper.*" [In re Brink, 419 F.2d 914, 917 (CCPA 1970)].

Claim 54.

Argument #9: Improper rejection

a. Claim 54 recites "… *an actuator for affecting a physical phenomenon*". The Action is not clear WHICH element is equated to the recited actuator. The Action describes switching of the appliance and not of any actuator as recited. Further, the rejection is vague and unclear since it provides no more than copied passages from the references, combined with Examiner

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interpretation. It is not clear how claimed elements or features are equated to elements or features in the references. ""*when a rejection is so uninformative that it prevents the applicant from recognizing and seeking to counter the grounds for rejection" that the prima facie burden has not been met and the rejection violates the minimal requirements of 35 U.S.C. § 132*". Chester v. Miller, 906 F.2d 1574, 1578 (Fed. Cir. 1990).

b. Claim 54 recites "… ***in the enclosure*** *an actuator for affecting a physical phenomenon*" (Emphasis added). It is not clear if the rejection equates the enclosure to the retrofit plug 125enclosure of to the appliance 130 enclosure. It is not clear how claimed elements or features are equated to elements or features in the references. ""*when a rejection is so uninformative that it prevents the applicant from recognizing and seeking to counter the grounds for rejection" that the prima facie burden has not been met and the rejection violates the minimal requirements of 35 U.S.C. § 132*". Chester v. Miller, 906 F.2d 1574, 1578 (Fed. Cir. 1990).

c. Claim 54 further recites "… *wherein the actuator is coupled to the wireless transceiver for being activated or controlled in response to digital data received from the wireless network.*". The rejection does not mentions or points to any wireless network in general, and any relation between any actuator and the wireless network in particular.

Claim 55.

Argument #10: Improper picking and choosing

a. Even assuming, *arguendo*, that the recited limitation is disclosed in the Sharood reference, the claim is 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. It is well settled that to anticipate under § 102, a prior-art reference "*must not only disclose all elements within the four comers of the document, but must also disclose those elements arranged as in the claim.*" Net Moneyin, Inc. v. Verisign, Inc., 545 F.3d 1359, 1369 (Fed. Cir. 2008), and further it is submitted that "*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.*", and that "*[T]he [prior art] reference must clearly and unequivocally disclose the claimed [invention] or direct those skilled in the art to the [invention] without any need for picking, choosing, and combining various disclosures not directly related to each other by the teachings of the cited reference.*" [In re Arkley, 455 F.2d 586, 587 (CCPA 1972)]. Furthermore, claim 55 is dependent from claim 54 that was rejected based on the teachings of retrofit plug 125 and appliance 130.

b. Further, 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. It is noted that "*if a reference is ambiguous and can be interpreted so that it may or may no*

[sic] constitute an anticipation of an appellant's claims, an anticipation rejection under 35 U.S.C. § 102 based upon the ambiguous reference is improper." [In re Brink, 419 F.2d 914, 917 (CCPA 1970)].

Claim 56.

Argument #11: Improper picking and choosing

a. Even assuming, *arguendo*, that the recited limitation is disclosed in the Sharood reference, the claim is rejected based on paragraphs ¶109-¶113 of the Sharood reference. However, these paragraphs in the Sharood reference, as admitted in the Action itself, are directed to a standard touchpad 152 in a different embodiment that is distinct and non-related to the appliance 130 and the retrofit plug 125 upon which claim 1 is rejected. It is well settled that to anticipate under § 102, a prior-art reference "*must not only disclose all elements within the four comers of the document, but must also disclose those elements arranged as in the claim.*" Net Moneyin, Inc. v. Verisign, Inc., 545 F.3d 1359, 1369 (Fed. Cir. 2008), and further it is submitted that "*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.*", and that "*[T]he [prior art] reference must clearly and unequivocally disclose the claimed [invention] or direct those skilled in the art to the [invention] without any need for picking, choosing, and combining various disclosures not directly related to each other by the teachings of the cited reference.*" [In re Arkley, 455 F.2d 586, 587 (CCPA 1972)]. Furthermore, claim 56 is

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dependent from claim 54 that was expressly rejected based on the teachings of retrofit plug 125 and appliance 130.

Claim 57.

Argument #12: Improper picking and choosing

a. Even assuming, *arguendo*, that the recited limitation is disclosed in the Sharood reference, the claim is 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. It is well settled that to anticipate under § 102, a prior-art reference "*must not only disclose all elements within the four comers of the document, but must also disclose those elements arranged as in the claim.*" Net Moneyin, Inc. v. Verisign, Inc., 545 F.3d 1359, 1369 (Fed. Cir. 2008), and further it is submitted that "*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.*", and that "*[T]he [prior art] reference must clearly and unequivocally disclose the claimed [invention] or direct those skilled in the art to the [invention] without any need for picking, choosing, and combining various disclosures not directly related to each other by the teachings of the cited reference.*" [In re Arkley, 455 F.2d 586, 587 (CCPA 1972)]. Furthermore, claim 57 is dependent from claim 54 that was rejected based on the teachings of retrofit plug 125 and appliance 130.

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b. Further, 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. It is noted that "*if a reference is ambiguous and can be interpreted so that it may or may no [sic] constitute an anticipation of an appellant's claims, an anticipation rejection under 35 U.S.C. § 102 based upon the ambiguous reference is improper*." [In re Brink, 419 F.2d 914, 917 (CCPA 1970)].

Claims 59 and 60.

Argument #13: The Sharood reference fails to disclose the limitations.

The rejection is based on that "*Sharood discloses (¶52 and ¶89) a process control apparatus 28 …*". It is respectfully submitted that the Sharood reference in general, and the cited paragraphs *¶52 and ¶89* in particular, do not disclose any 'process control apparatus 28' or are related in any way to the recited limitations. It is believed that the rejections were erroneously copied from a prior action that relates to the Ebrom reference and NOT to the Sharood reference.

Office Action, section 7 pages 16-21

Claims 8, 11, 20-21, 23-24 and 51-53 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sharood *et al.* (US 2001/0025349 - hereinafter "Sharood") in view of Legaspi (US 2011/0170377 - hereinafter "Legaspi").

Argument #14: Non-analogous references.

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The Action is based on combining the Sharood and Legaspi references. The Applicant submits that the cited references are directed towards respectively different fields and purposes, and are based on respectively different structures, and thus are not analogous to one another and cannot logically be combined. The Action does not explain, as required by the rules, what is the reasoning behind the combining of the references, and why these references are analogous to each other. **If the reference are combined as being in the same field, it is hereby requested that the definition of the field of both the cited references will be included in the Examiner Answer, as defined in the rules. If the reference are combined as pertaining to the same problem, it is hereby requested that the definition of the problem relating to both of the cited references will be included in the Examiner Answer, as defined in the rules.**

Further, it is settled that "*A reference is reasonably pertinent to the problem at issue if it* ***"logically*** *would have commended itself to an inventor's attention in considering his problem.*"" *In re Clay*, 966 F .2d 656, 659 (Fed. Cir. 1992) (emphasis added). If the reference are combined as pertaining to the same problem, it is hereby requested that the definition of the problem relating to both of the cited references will be included in the Examiner Answer, as defined in the rules.

It is further noted that in a restriction dated August 28, 2018, these claims were defined by the Examiner as 'distinct inventions' from claim 1 that ***'are not obvious variants'***. It is noted that such restriction is NOT detached from patentability requirement, as such linking is expressed by the MPEP itself, stating in MPEP 803(II): "*If there is an express admission that the claimed inventions would have been*

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obvious over each other within the meaning of 35 U.S.C. 103, restriction should not be required." In re Lee, 199 USPQ 108(Comm'r Pat. 1978). Further, it is explicitly stated in MPEP §806.04(h) that "***Species Must Be Patentably Distinct From Each Other***".

Argument #15: Improper rejection – Unclear conclusory rejection.

The rejection is vague and unclear since it provides no more than copied passages from the references that allegedly disclose the recited elements. It is not clear how the claimed elements or features are equated to elements or features in the references, and HOW the Sharood reference, serving as the main reference is modified to arrive at the claim. "*"when a rejection is so uninformative that it prevents the applicant from recognizing and seeking to counter the grounds for rejection" that the prima facie burden has not been met and the rejection violates the minimal requirements of 35 U.S.C. § 132*". Chester v. Miller, 906 F.2d 1574, 1578 (Fed. Cir. 1990). It is not clear HOW the primary reference (Sharood) reference is modified. For example, it is not explained how and where the additional elements are added, what elements are modified, and are they added as a substitute or as addition to the Sharood described elements. Similarly, it is not clear how the Sharood system is modified to include this additional (or substitute) device.

Regarding claim 8

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

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The rationale for combining the Sharood and Legaspi references is stated as "… *to enhance the method and system of a monitoring device connected to an appliance that receives power from a source and outputs data via communication transceiver as disclosed by Sharood, by implementing methods for automatically disabling appliances upon the occurrence of a safety event (Legaspi, ¶2).*".

a. It is noted that the rationale of "*automatically disabling appliances*" may at best explain why a switching element is used, but is not related to the specific features recited in the claim. Hence, the rationale provides no link to the specific claim, as required in MPEP 2143 that clearly states that "*Any rationale employed must provide* ***a link between the factual findings and the legal conclusion of obviousness.***" (Emphasis added), and "… there must be "*some articulated reasoning with some rational underpinning" to support the Examiner's findings and conclusion of obviousness*". See KSR Inti Co. v. Teleflex Inc., 550 U.S. 401, 418 (2007).

b. The rationale is based on "… *implementing methods for automatically disabling appliances".* However, the Sharood reference already discloses this feature, as admitted in the Action itself in the rejection of claim 1 (page 4, lines 18-20) that states: "*Sharood discloses (¶94) the retrofit plug 125 allows remote control of the appliance as it includes a power-switching device that permits dimming, enables current flow regulation* ***and remote shutdown of the attached appliance.***" (Emphasis added). Further, "*Where the secondary reference disclosed an advantage, but where none of the cited prior art references suggested that the primary reference could benefit from that advantage or was in need of that*

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advantage". [See, e.g., Ex parte Saiki, No. 2000-0373, 2002 WL 32102452, at *3 (B.P.A.I. Jan. 17, 2002); Ex parte Burak, No. 2004-0823, 2004 WL 4981768, at *4 (Dec. 8, 2004)].

Furthermore, such advantage is clearly redundant to the Sharood reference, and it is noted that where the secondary reference disclosed an advantage, and where the primary reference already possessed that advantage. [See, e.g., Ex parte Anttila & Jung, No. 2010-006328, 2012 WL 4718520, at *3 (B.P.A.I. Sept. 27, 2012); Kastelewicz, 2009 WL 1719394, at *5-7; Ex parte Levine, No. 2010-001240, 2012 WL 4483329, at *3 (B.P.A.I. Sept. 25, 2012)].

Regarding claim 11

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

The arguments described above regarding claim 8 are repeated here.

In addition, the SAME rationale is used for both claim 11 as well as claim 8, although the recited elements are different. Hence, inherently the rationale provides no link to the specific claim, as required in MPEP 2143 that clearly states that "*Any rationale employed must provide* ***a link between the factual findings and the legal conclusion of obviousness.***" (Emphasis added), and "… there must be "*some articulated reasoning with some rational underpinning" to support the Examiner's findings and conclusion of obviousness*". See KSR Inti Co. v. Teleflex Inc., 550 U.S. 401, 418 (2007).

Regarding claim 20

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

The rationale for combining the Sharood and Legaspi references is stated as "*… to enhance the method and system of a monitoring device connected to an appliance that receives power from a source and outputs data via communication transceiver as disclosed by Sharood, by implementing methods for wired and wireless signals transmission such as voice and/or data signals or messages (Legaspi, ¶61).*".

a. However, it is not clear HOW the primary reference (Sharood) reference is modified. For example, how and where are the additional limitations added, and are they added as a substitute or as an addition to the Sharood described elements. Similarly, it is not clear how the Sharood system is modified to include this additional (or substitute) device. Hence, 35 U.S.C. § 132 section "*is violated when a rejection is so uninformative that it prevents the applicant from recognizing and seeking to counter the grounds for rejection*." Chester v. Miller, 906 F.2d 1574, 1578 (Fed. Cir. 1990). [In re Jung, 637 F. 3d 1356, 1362 (Fed. Cir. 2011).]. Such a conclusory statement is insufficient to establish persuasively that a person of ordinarily skill in the art would have recognized some deficiency in the Sharood reference or had some other reason to look to any other reference and combine its teachings with those of Sharood.

b. It is noted that the rationale of "*by implementing methods for wired and wireless signals transmission*" may at best explain why a wireless communication is used, but is not

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related to the specific features of WPAN recited in the claim. Hence, the rationale provides no link to the specific claim, as required in MPEP 2143 that clearly states that "*Any rationale employed must provide* ***a link between the factual findings and the legal conclusion of obviousness.***" (Emphasis added), and "… there must be "*some articulated reasoning with some rational underpinning" to support the Examiner's findings and conclusion of obviousness*". See KSR Inti Co. v. Teleflex Inc., 550 U.S. 401, 418 (2007).

c. The rationale is based on "*by implementing methods for wired and wireless signals transmission".* However, the Sharood reference already discloses this feature, as admitted in the Action itself in the rejection of claim 1 on page 4 at lines 9-13. Further, "*Where the secondary reference disclosed an advantage, but where none of the cited prior art references suggested that the primary reference could benefit from that advantage or was in need of that advantage*". [See, e.g., Ex parte Saiki, No. 2000-0373, 2002 WL 32102452, at *3 (B.P.A.I. Jan. 17, 2002); Ex parte Burak, No. 2004-0823, 2004 WL 4981768, at *4 (Dec. 8, 2004)].

Furthermore, such advantage is clearly redundant to the Sharood reference, as taught by the Sharood reference, such as at least in paragraphs 0213-0214, 0226, and 0233. Hence such modification is clearly redundant, rendering the combination moot. It is noted that where the secondary reference disclosed an advantage, and where the primary reference already possessed that advantage. [See, e.g., Ex parte Anttila & Jung, No. 2010-006328, 2012 WL 4718520, at *3 (B.P.A.I. Sept. 27, 2012); Kastelewicz, 2009 WL 1719394, at *5-7; Ex parte Levine, No. 2010-001240, 2012 WL 4483329, at *3 (B.P.A.I. Sept. 25, 2012)].

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Regarding claim 21

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

The arguments described above regarding claim 20 are repeated here.

In addition, the SAME rationale is used for both claim 21 as well as claim 20, although the recited elements are different. Hence, inherently the rationale provides no link to the specific claim, as required in MPEP 2143 that clearly states that "*Any rationale employed must provide* ***a link between the factual findings and the legal conclusion of obviousness.***" (Emphasis added), and "… there must be "*some articulated reasoning with some rational underpinning" to support the Examiner's findings and conclusion of obviousness*". See KSR Inti Co. v. Teleflex Inc., 550 U.S. 401, 418 (2007).

Regarding claim 23

Argument #20: Improper rationale for combination of the Sharood and Legaspi references.

The arguments described above regarding claim 20 are repeated here, with the exception of relating to WLAN rather than WPAN.

In addition, the SAME rationale is used for both claim 23 as well as claim 20, although the recited elements are different. Hence, inherently the rationale provides no link to the specific claim, as required in MPEP 2143 that clearly states that "*Any rationale employed must provide* ***a link between the factual findings and the legal conclusion of***

obviousness." (Emphasis added), and "… there must be "*some articulated reasoning with some rational underpinning" to support the Examiner's findings and conclusion of obviousness*". See KSR Inti Co. v. Teleflex Inc., 550 U.S. 401, 418 (2007).

Regarding claim 24

Argument #21: Improper rationale for combination of the Sharood and Legaspi references.

The arguments described above regarding claim 20 are repeated here, with the exception of relating to WLAN rather than WPAN.

In addition, the SAME rationale is used for both claim 24 as well as claim 20, although the recited elements are different. Hence, inherently the rationale provides no link to the specific claim, as required in MPEP 2143 that clearly states that "*Any rationale employed must provide* ***a link between the factual findings and the legal conclusion of obviousness.***" (Emphasis added), and "… there must be "*some articulated reasoning with some rational underpinning" to support the Examiner's findings and conclusion of obviousness*". See KSR Inti Co. v. Teleflex Inc., 550 U.S. 401, 418 (2007).

Argument #22: Improper rationale for combination of the Sharood and Legaspi references.

The rationale for combining the Sharood and Legaspi references is stated as "… *to enhance the method and system of a monitoring device connected to an appliance that receives power from a source and outputs data via communication transceiver as disclosed by Sharood, by implementing detectors*

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(or detector modules) that are configured to emit a signal upon an occurrence of the event (Legaspi, ¶52).".

Office Action, section 8 pages 21-22

Claims 22 and 29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sharood *et al.* (US 2001/0025349 - hereinafter "Sharood") in view of Legaspi (US 2011/0170377 - hereinafter "Legaspi") in view of Rada *et al.* (US 2011/0251807 - hereinafter "Rada").

Argument #23: Non-analogous references.

The Action is based on combining the Sharood and Legaspi references. The Applicant submits that the cited references are directed towards respectively different fields and purposes, and are based on respectively different structures, and thus are not analogous to one another and cannot logically be combined. The Action does not explain, as required by the rules, what is the reasoning behind the combining of the references, and why these references are analogous to each other. **If the reference are combined as being in the same field, it is hereby requested that the definition of the field of both the cited references will be included in the Examiner Answer, as defined in the rules. If the reference are combined as pertaining to the same problem, it is hereby requested that the definition of the problem relating to both of the cited references will be included in the Examiner Answer, as defined in the rules.**

Further, it is settled that "*A reference is reasonably pertinent to the problem at issue if it* ***"logically*** *would have commended itself to an inventor's attention in considering his problem.*"" *In re Clay*, 966 F .2d 656, 659 (Fed. Cir. 1992) (emphasis added). If the reference are

combined as pertaining to the same problem, it is hereby requested that the definition of the problem relating to both of the cited references will be included in the Examiner Answer, as defined in the rules.

Regarding claim 22

Argument #24: Improper rationale for combination of the Sharood and Rada references.

The rationale for combining the Sharood and Rada references is stated as "… *to enhance the method and system of a monitoring device connected to an appliance that receives power from a source and outputs data via communication transceiver as disclosed by Sharood … by implementing communication methods … of accessing the data generated by the energy monitoring device to check the real-time status of energy usage of the appliances and remotely control the electrical devices within the property (Rada, ¶0215).*".

a. It is noted that the rationale of "*by implementing communication methods … of accessing the data generated by the energy monitoring device to check the real-time status of energy usage of the appliances and remotely control the electrical devices within the property*" may at best explain why a wireless communication is used, but is not related to the specific variants of WPAN recited in the claim. Hence, the rationale provides no link to the specific claim, as required in MPEP 2143 that clearly states that "*Any rationale employed must provide* ***a link between the factual findings and the legal conclusion of obviousness.***" (Emphasis added), and "… there must be "*some articulated reasoning with some rational underpinning*" *to support the Examiner's findings and*

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conclusion of obviousness". See KSR Inti Co. v. Teleflex Inc., 550 U.S. 401, 418 (2007). Such a conclusory statement is insufficient to establish persuasively that a person of ordinarily skill in the art would have recognized some deficiency in the Sharood reference or had some other reason to look to any other reference and combine its teachings with those of Sharood.

b. The rationale is based on "*by implementing communication methods … of accessing the data generated by the energy monitoring device to check the real-time status of energy usage of the appliances and remotely control the electrical devices within the property*". However, the Sharood reference already discloses this feature, as admitted in the Action itself in the rejection of claim 1. Further, "*Where the secondary reference disclosed an advantage, but where none of the cited prior art references suggested that the primary reference could benefit from that advantage or was in need of that advantage*". [See, e.g., Ex parte Saiki, No. 2000-0373, 2002 WL 32102452, at *3 (B.P.A.I. Jan. 17, 2002); Ex parte Burak, No. 2004-0823, 2004 WL 4981768, at *4 (Dec. 8, 2004)].

Furthermore, such advantage is clearly redundant to the Sharood reference, as taught by the Sharood reference, such as at least in paragraphs 0213-0214, 0226, and 0233. Hence such modification is clearly redundant, rendering the combination moot. It is noted that where the secondary reference disclosed an advantage, and where the primary reference already possessed that advantage. [See, e.g., Ex parte Anttila & Jung, No. 2010-006328, 2012 WL 4718520, at *3 (B.P.A.I. Sept. 27, 2012); Kastelewicz, 2009 WL 1719394, at *5-7; Ex parte Levine, No. 2010-001240, 2012 WL 4483329, at *3 (B.P.A.I. Sept. 25, 2012)].

Regarding claim 24

Argument #25: Improper rationale for combination of the Sharood and Rada references.

The rationale for combining the Sharood and Rada references is stated as "… *to enhance the method and system of a monitoring device connected to an appliance that receives power from a source and outputs data via communication transceiver as disclosed by Sharood … by implementing communication methods … of accessing the data generated by the energy monitoring device to check the real-time status of energy usage of the appliances and remotely control the electrical devices within the property (Rada, ¶0215).*".

a. The arguments described above regarding claim 22 are repeated here, with the exception of relating to WiMAX rather than WPAN.

In addition, the SAME rationale is used for both claim 29 as well as claim 22, although the recited elements are different. Hence, inherently the rationale provides no link to the specific claim, as required in MPEP 2143 that clearly states that "*Any rationale employed must provide* ***a link between the factual findings and the legal conclusion of obviousness.***" (Emphasis added), and "… there must be "*some articulated reasoning with some rational underpinning" to support the Examiner's findings and conclusion of obviousness*". See KSR Inti Co. v. Teleflex Inc., 550 U.S. 401, 418 (2007). Such a conclusory statement is insufficient to establish persuasively that a person of ordinarily skill in the art would have recognized some deficiency in the Sharood

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reference or had some other reason to look to any other reference and combine its teachings with those of Sharood.

b. The rationale specifically mentions IEEE 802.15.4 and Zigbee, known to be WPAN technologies (see claim 22), while claim 29 is directed to WiMAX which is a WWAN technology, hence the rationale is conclusory and is not relevant to the claim. Thus the rationale is conclusory and general, while "*conclusory statement is insufficient to support obviousness*" [In re Nuvasive, Inc., 842 F.3d 1376, 1381-82 (Fed. Cir. 2016)], and further, the Action fails to provide an apparent reason explaining why a person having ordinary skill in the art would have been led to modify the Sharood reference. See KSR Int 'l Co. v. Teleflex Inc., 550 U.S. 398 418 (2007) (*holding that the analysis leading to a determination of an apparent reason to combine the known elements in the fashion claimed should be made explicit*).

Office Action, section 9 pages 22-27

Claims 25-28, 30-31, 35, and 37 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sharood *et al.* (US 2001/0025349 - hereinafter "Sharood") in view of Kiko (US 2005/0125083 - hereinafter "Kiko").

Claims 25-28, 30-31, 35, and 37

Argument #26: Non-analogous references.

The Action is based on combining the Sharood and Kiko references. The Applicant submits that the cited references are directed towards respectively different fields and purposes, and are based on respectively different structures, and thus are not analogous to one another and

cannot logically be combined. The Action does not explain, as required by the rules, what is the reasoning behind the combining of the references, and why these references are analogous to each other. **If the reference are combined as being in the same field, it is hereby requested that the definition of the field of both the cited references will be included in the Examiner Answer, as defined in the rules. If the reference are combined as pertaining to the same problem, it is hereby requested that the definition of the problem relating to both of the cited references will be included in the Examiner Answer, as defined in the rules.**

Further, it is settled that "*A reference is reasonably pertinent to the problem at issue if it* ***"logically*** *would have commended itself to an inventor's attention in considering his problem.*"" *In re Clay*, 966 F .2d 656, 659 (Fed. Cir. 1992) (emphasis added). If the reference are combined as pertaining to the same problem, it is hereby requested that the definition of the problem relating to both of the cited references will be included in the Examiner Answer, as defined in the rules.

It is further noted that in a restriction dated August 28, 2018, these claims were each individually defined by the Examiner as 'distinct inventions' from claim 1 that ***'are not obvious variants'***. It is noted that such restriction is NOT detached from patentability requirement, as such linking is expressed by the MPEP itself, stating in MPEP 803(II): "*If there is an express admission that the claimed inventions would have been obvious over each other within the meaning of 35 U.S.C. 103, restriction should not be required.*" In re Lee, 199 USPQ 108(Comm'r Pat. 1978). Further, it is explicitly stated in MPEP §806.04(h) that "***Species Must Be Patentably Distinct From Each Other***".

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Argument #27: Improper rationale for combination of the Sharood and Kiko references.

The rationale for combining the Sharood and Kiko references is stated as "… *to enhance the method and system of a monitoring device connected to an appliance that receives power from a source and outputs data via communication transceiver as disclosed by Sharood … by implementing communication methods … of accessing the data generated by the energy monitoring device to check the real-time status of energy usage of the appliances and remotely control the electrical devices within the property (Rada, ¶0215).*".

a. While the claims recites different features and technologies, the SAME rationale is used for ALL claims 25-28, 30-31, 35, and 37. Hence, inherently the rationale provides no link to the specific claim, as required in MPEP 2143 that clearly states that "*Any rationale employed must provide* ***a link between the factual findings and the legal conclusion of obviousness.***" (Emphasis added), and "… there must be "*some articulated reasoning with some rational underpinning" to support the Examiner's findings and conclusion of obviousness*". See KSR Inti Co. v. Teleflex Inc., 550 U.S. 401, 418 (2007). It is noted that the technology was not evolved to use ONLY a single wireless technology, various communication technologies have been developed for a reason, since each technology is adapted to a specific scenario, application, and medium. Hence different reasoning and rationale should be used for using each technology. In particular, some of the wireless technologies do not lend themselves to be used in Building Automation as described by the Sharood reference.

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b. The rationale is based on "*by implementing communication methods … of accessing the data generated by the energy monitoring device to check the real-time status of energy usage of the appliances and remotely control the electrical devices within the property*". However, the Sharood reference **already** discloses various wireless communication schemes, as admitted in the Action itself in the rejection of claim 1. Further, "*Where the secondary reference disclosed an advantage, but where none of the cited prior art references suggested that the primary reference could benefit from that advantage or was in need of that advantage*". [See, e.g., Ex parte Saiki, No. 2000-0373, 2002 WL 32102452, at *3 (B.P.A.I. Jan. 17, 2002); Ex parte Burak, No. 2004-0823, 2004 WL 4981768, at *4 (Dec. 8, 2004)].

Furthermore, such advantage is clearly redundant to the Sharood reference, as taught by the Sharood reference, such as at least in paragraphs 0213-0214, 0226, and 0233. Hence such modification is clearly redundant, rendering the combination moot. It is noted that where the secondary reference disclosed an advantage, and where the primary reference already possessed that advantage. [See, e.g., Ex parte Anttila & Jung, No. 2010-006328, 2012 WL 4718520, at *3 (B.P.A.I. Sept. 27, 2012); Kastelewicz, 2009 WL 1719394, at *5-7; Ex parte Levine, No. 2010-001240, 2012 WL 4483329, at *3 (B.P.A.I. Sept. 25, 2012)].

c. The rationale is based on "*by implementing communication methods … of accessing the data generated by the energy monitoring device to check the real-time status of energy usage of the appliances and remotely control the electrical devices within the property*". It is noted that the rationale may best justify the usage of a communication technology, but

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fails to explain why a wireless technology is to be used in general, and the recited wireless technologies in particular. Thus the rationale is conclusory and general, while "*conclusory statement is insufficient to support obviousness*" [In re Nuvasive, Inc., 842 F.3d 1376, 1381-82 (Fed. Cir. 2016)], and "*[O]bviousness requires a suggestion of all limitations in a claim*." [CFMT, Inc. v. Yieldup Int 'l Corp., 349 F.3d 1333, 1342 (Fed. Cir. 2003) (citing In re Royka, 490 F.2d 981, 985 (CCPA 1974))]. Such a conclusory statement is insufficient to establish persuasively that a person of ordinarily skill in the art would have recognized some deficiency in the Sharood reference or had some other reason to look to any other reference and combine its teachings with those of Sharood.

Claim 35.

Argument #28: Improper rationale for combination of the Sharood and Kiko references.

Claim 35 discloses multiple sensors, rather than communication technology. Still, the SAME rationale is used for the combination. It is respectfully submitted that the rationale is based on "*by implementing* ***communication methods*** *… of* ***accessing the data*** *generated by the energy monitoring device to check the real-time status of energy usage of the appliances and* ***remotely control*** *the electrical devices within the property*" - This rationale has no relevance to any sensor in general, and the recited limitation in particular. Thus the rationale is general and conclusory, while "*conclusory statement is insufficient to support obviousness*" [In re Nuvasive, Inc., 842 F.3d 1376, 1381-82 (Fed. Cir. 2016)], and further, the Action fails to provide an apparent reason

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explaining why a person having ordinary skill in the art would have been led to modify the Sharood reference. See KSR Int 'l Co. v. Teleflex Inc., 550 U.S. 398 418 (2007) (*holding that the analysis leading to a determination of an apparent reason to combine the known elements in the fashion claimed should be made explicit*).

Claim 37.

Argument #29: Improper combination of the Sharood and Kiko references.

The rejection seems to be based on paragraph ¶82 of the Kiko reference. However, this paragraph is directed ONLY to a processor structure, and has no relevance to any sensor structure or type, rendering the rejection general and conclusory, while "*conclusory statement is insufficient to support obviousness*" [In re Nuvasive, Inc., 842 F.3d 1376, 1381-82 (Fed. Cir. 2016)]. Further, "*[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 (quoting In re Kahn, 441 F.3d 977, 988 (Fed. Cir. 2006)).

Argument #30: Improper rationale for combination of the Sharood and Kiko references.

Claim 37 discloses a type or structure of a sensor, rather than communication technology. Still, the SAME rationale is used for the combination. It is respectfully submitted that the rationale is based on "*by implementing* ***communication methods*** *… of* ***accessing the data*** *generated by the energy monitoring device to check the real-time status of*

energy usage of the appliances and ***remotely control*** *the electrical devices within the property*" – This rationale has no relevance to any sensor in general, and the recited limitation in particular. Thus the rationale is general and conclusory, while "*conclusory statement is insufficient to support obviousness*" [In re Nuvasive, Inc., 842 F.3d 1376, 1381–82 (Fed. Cir. 2016)], and further, the Action fails to provide an apparent reason explaining why a person having ordinary skill in the art would have been led to modify the Sharood reference. See KSR Int'l Co. v. Teleflex Inc., 550 U.S. 398 418 (2007) (*holding that the analysis leading to a determination of an apparent reason to combine the known elements in the fashion claimed should be made explicit*).

Office Action, section 10 pages 27–30

Claims 38–40, 42–43, and 47–50 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sharood *et al.* (US 2001/0025349 – hereinafter "Sharood") in view of Hendrickson (US 2011/0148651 – hereinafter "Hendrickson").

Claims 38–40, 42–43, and 47–50

Argument #31: Non-analogous references.

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

being in the same field, it is hereby requested that the definition of the field of both the cited references will be included in the Examiner Answer, as defined in the rules. If the reference are combined as pertaining to the same problem, it is hereby requested that the definition of the problem relating to both of the cited references will be included in the Examiner Answer, as defined in the rules.

Further, it is settled that "*A reference is reasonably pertinent to the problem at issue if it* ***"logically*** *would have commended itself to an inventor's attention in considering his problem.*"" *In re Clay*, 966 F .2d 656, 659 (Fed. Cir. 1992) (emphasis added). If the reference are combined as pertaining to the same problem, it is hereby requested that the definition of the problem relating to both of the cited references will be included in the Examiner Answer, as defined in the rules.

Argument #32: Improper rationale for combination of the Sharood and Hendrickson references.

The rationale for combining the Sharood and Hendrickson references is stated as "… *to enhance the system of appliance monitoring device as disclosed by Sharood with various types of sensors and consumer accessory devices that supplements functionality of appliance (Hendrickson, ¶1)*".

a. While the claims recites different sensors, the SAME rationale is used for ALL claims. Hence, inherently the rationale provides no link to the specific claim, as required in MPEP 2143 that clearly states that "*Any rationale employed must provide* ***a link between the factual findings and the legal conclusion of obviousness.***" (Emphasis added), and "… there must be "*some articulated reasoning with some rational*

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underpinning" to support the Examiner's findings and conclusion of obviousness". See KSR Inti Co. v. Teleflex Inc., 550 U.S. 401, 418 (2007). It is noted that the technology was not evolved to use ONLY a single wireless technology, various communication technologies have been developed for a reason, since each technology is adapted to a specific scenario, application, and medium. Hence different reasoning and rationale should be used for using each technology. In particular, some of the wireless technologies do not lend themselves to be used in Building Automation as described by the Sharood reference.

b. The rationale is based on "… *to enhance the system of appliance monitoring device as disclosed by Sharood with various types of sensors and consumer accessory devices that supplements functionality of appliance (Hendrickson, ¶1)".* However, the Sharood reference **already** discloses various sensors and consumer accessory devices, as admitted in the Action itself in the rejection of claim 1. Further, "*Where the secondary reference disclosed an advantage, but where none of the cited prior art references suggested that the primary reference could benefit from that advantage or was in need of that advantage*". [See, e.g., Ex parte Saiki, No. 2000-0373, 2002 WL 32102452, at *3 (B.P.A.I. Jan. 17, 2002); Ex parte Burak, No. 2004-0823, 2004 WL 4981768, at *4 (Dec. 8, 2004)].

Furthermore, such advantage is clearly redundant to the Sharood reference, as taught by the Sharood reference. Hence such modification is clearly redundant, rendering the combination moot. It is noted that where the secondary reference disclosed an advantage, and where the primary reference already possessed that advantage. [See, e.g., Ex parte Anttila & Jung, No. 2010-006328, 2012 WL 4718520, at *3

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(B.P.A.I. Sept. 27, 2012); Kastelewicz, 2009 WL 1719394, at *5-7; Ex parte Levine, No. 2010-001240, 2012 WL 4483329, at *3 (B.P.A.I. Sept. 25, 2012)].

c. The rationale is based on "… *to enhance the system of appliance monitoring device as disclosed by Sharood with various types of sensors and consumer accessory devices that supplements functionality of appliance (Hendrickson, ¶1)".* The rationale is conclusory and general, and DOES NOT explain HOW the added sensor are used in the Sharood device, and WHAT is the 'supplement functionality' provided by using these added elements. Thus the rationale is conclusory and general, while "*conclusory statement is insufficient to support obviousness*" [In re Nuvasive, Inc., 842 F.3d 1376, 1381-82 (Fed. Cir. 2016)], and "*[O]bviousness requires a suggestion of all limitations in a claim*." [CFMT, Inc. v. Yieldup Int 'l Corp., 349 F.3d 1333, 1342 (Fed. Cir. 2003) (citing In re Royka, 490 F.2d 981, 985 (CCPA 1974))]. Such a conclusory statement is insufficient to establish persuasively that a person of ordinarily skill in the art would have recognized some deficiency in the Sharood reference or had some other reason to look to any other reference and combine its teachings with those of Sharood. Further, "*[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 (quoting In re Kahn, 441 F.3d 977, 988 (Fed. Cir. 2006)).

Claims 43, 48 and 50

Argument #33: Improper rationale

Claim 43 depends from claim 42, claim 48 depends from claim 47, and claim 50 depends from claim 49. However, the SAME rationale is stated for both the parent and the dependent claims, rendering the rationale moot, since they already provide the stated benefit – "*Where the secondary reference disclosed an advantage, but where none of the cited prior art references suggested that the primary reference could benefit from that advantage or was in need of that advantage*". [See, e.g., Ex parte Saiki, No. 2000-0373, 2002 WL 32102452, at *3 (B.P.A.I. Jan. 17, 2002); Ex parte Burak, No. 2004-0823, 2004 WL 4981768, at *4 (Dec. 8, 2004)].

Furthermore, such advantage is clearly redundant, rendering the combination moot. It is noted that where the secondary reference disclosed an advantage, and where the primary reference already possessed that advantage. [See, e.g., Ex parte Anttila & Jung, No. 2010-006328, 2012 WL 4718520, at *3 (B.P.A.I. Sept. 27, 2012); Kastelewicz, 2009 WL 1719394, at *5-7; Ex parte Levine, No. 2010-001240, 2012 WL 4483329, at *3 (B.P.A.I. Sept. 25, 2012)].

Office Action, section 11 pages 30-31

Claim 41 is rejected under 35 U.S.C. 103(a) as being unpatentable over Sharood *et al.* (US 2001/0025349 – hereinafter "Sharood") in view of Mehta (US 2010/0211359 – hereinafter "Mehta").

Claim 41

Argument #34: Non-analogous references.

The Action is based on combining the Sharood and Mehta references. The Applicant submits that the cited references are directed towards respectively different fields

and purposes, and are based on respectively different structures, and thus are not analogous to one another and cannot logically be combined. The Action does not explain, as required by the rules, what is the reasoning behind the combining of the references, and why these references are analogous to each other. **If the reference are combined as being in the same field, it is hereby requested that the definition of the field of both the cited references will be included in the Examiner Answer, as defined in the rules. If the reference are combined as pertaining to the same problem, it is hereby requested that the definition of the problem relating to both of the cited references will be included in the Examiner Answer, as defined in the rules.**

Further, it is settled that "*A reference is reasonably pertinent to the problem at issue if it* ***"logically*** *would have commended itself to an inventor's attention in considering his problem.*"" *In re Clay*, 966 F .2d 656, 659 (Fed. Cir. 1992) (emphasis added). If the reference are combined as pertaining to the same problem, it is hereby requested that the definition of the problem relating to both of the cited references will be included in the Examiner Answer, as defined in the rules.

Argument #35: Improper rationale for combination of the Sharood and Hendrickson references.

The rationale for combining the Sharood and Mehta references is stated as "… *to enhance the system of appliance monitoring device as disclosed by Sharood by adding a wide array of chemical, biological and nuclear sensors for sensing and analyzing properties, conditions, and substances present within the environment, and generating alerts for public safety (Mehta, ¶2)*".

a. The rationale is based on "… *for public safety*". However, the Sharood reference **already** discloses various safety aspects, such as admitted in the Action itself. For example, in page 7 it is stated that "… *the control server can turn off the appliance before permanent harm is done*" (page 7, lines 1-2). It is noted that "*Where the secondary reference disclosed an advantage, but where none of the cited prior art references suggested that the primary reference could benefit from that advantage or was in need of that advantage*". [See, e.g., Ex parte Saiki, No. 2000-0373, 2002 WL 32102452, at *3 (B.P.A.I. Jan. 17, 2002); Ex parte Burak, No. 2004-0823, 2004 WL 4981768, at *4 (Dec. 8, 2004)].

Furthermore, such advantage is clearly redundant to the Sharood reference, as taught by the Sharood reference. Hence such modification is clearly redundant, rendering the combination moot. It is noted that where the secondary reference disclosed an advantage, and where the primary reference already possessed that advantage. [See, e.g., Ex parte Anttila & Jung, No. 2010-006328, 2012 WL 4718520, at *3 (B.P.A.I. Sept. 27, 2012); Kastelewicz, 2009 WL 1719394, at *5-7; Ex parte Levine, No. 2010-001240, 2012 WL 4483329, at *3 (B.P.A.I. Sept. 25, 2012)].

b. It is trivial, inherent, and self-evident that <u>always</u> adding a feature A to any device results in a device having a capability of feature A. Similarly, it is trivial, inherent, and self-evident that <u>always</u> adding the functionality of "… *a wide array of chemical, biological and nuclear sensors*" results in the rationale of "… *for sensing and analyzing properties, conditions, and substances present within the environment, and generating alerts for public safety*". Thus,

the Action fails to provide any reasoning WHY any such action is required to start with, and the rationale provides no link to the present application, as required in MPEP 2143 that clearly states that "*Any rationale employed must provide* ***a link between the factual findings and the legal conclusion of obviousness.***" (Emphasis added), and "… there must be "*some articulated reasoning with some rational underpinning" to support the Examiner's findings and conclusion of obviousness*". See KSR Inti Co. v. Teleflex Inc., 550 U.S. 401, 418 (2007). Further, "*[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 (quoting In re Kahn, 441 F.3d 977, 988 (Fed. Cir. 2006)).

c. Clearly the stated rejection improperly uses the application as a motivation to combine the reference, while "*The Board improperly relied on hindsight reasoning to piece together elements to arrive at the claimed invention. "Care must be taken to avoid hind-sight reconstruction by using 'the patent in suit as a guide through the maze of prior art references, combining the right references in the right way so as to achieve the result of the claims in suit.'"*" Grain Processing Corp. v. American-Maize Prods. Co., 840 F.2d 902, 907 (Fed. Cir. 1988) (quoting Orthopedic Equip Co. v. United States, 702 F.2d 1005, 1012 (Fed. Cir. 1983)), and further "*[i]t is impermissible to use the claimed invention as an instruction manual or „template" to piece together the teachings of the prior art so that the claimed invention is rendered obvious.*" In re Fritch, 972 F.2d 1260, 1266 (Fed. Cir. 1992).

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Office Action, section 12 pages 31-33

Claims 44-46 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sharood *et al.* (US 2001/0025349 – hereinafter "Sharood") in view of Hendrickson (US 2011/0148651 – hereinafter "Hendrickson") and in view of Kiko (US 2005/0125083 – hereinafter "Kiko").

NOTE: Claim 45 depends from claim 32 which was rejected on section 6 solely based on the Sharood reference. Hence, the rejection failed to provide a rationale for combining with the Hendrickson reference regarding this claim and regarding claim 46 that depends from claim 45.

Claims 44-46

Argument #36: Improper rationale for combination of the Sharood and Kiko references.

The rationale for combining the Sharood and Kiko references is stated as "… *to enhance the system of appliance monitoring device equipped with various types of sensors and consumer accessory devices that supplements functionality of appliance as disclosed by Sharood … with Kiko's RF interface to add in various different types of access technologies to gain access to remote nodes (Kiko, ¶208)*".

a. While the claims recites different sensors, the SAME rationale is used for ALL claims. Hence, inherently the rationale provides no link to the specific claim, as required in MPEP 2143 that clearly states that "*Any rationale employed must provide* ***a link between the factual findings and the legal conclusion of obviousness.***" (Emphasis added), and "… there

must be "*some articulated reasoning with some rational underpinning" to support the Examiner's findings and conclusion of obviousness*". See KSR Inti Co. v. Teleflex Inc., 550 U.S. 401, 418 (2007).

b. The rationale is based on "*… to enhance … with Kiko's RF interface to add in various different types of access technologies to gain access to remote nodes (Kiko, ¶208)*". However, the Sharood reference **already** discloses various wireless interfaces, as admitted in the Action itself in the rejection of claim 1 (see page 4 regarding the antenna nad transceiver limitations). Further, "*Where the secondary reference disclosed an advantage, but where none of the cited prior art references suggested that the primary reference could benefit from that advantage or was in need of that advantage*". [See, e.g., Ex parte Saiki, No. 2000-0373, 2002 WL 32102452, at *3 (B.P.A.I. Jan. 17, 2002); Ex parte Burak, No. 2004-0823, 2004 WL 4981768, at *4 (Dec. 8, 2004)].

Furthermore, such advantage is clearly redundant to the Sharood reference, as taught by the Sharood reference. Hence such modification is clearly redundant, rendering the combination moot. It is noted that where the secondary reference disclosed an advantage, and where the primary reference already possessed that advantage. [See, e.g., Ex parte Anttila & Jung, No. 2010-006328, 2012 WL 4718520, at *3 (B.P.A.I. Sept. 27, 2012); Kastelewicz, 2009 WL 1719394, at *5-7; Ex parte Levine, No. 2010-001240, 2012 WL 4483329, at *3 (B.P.A.I. Sept. 25, 2012)].

c. The rationale is based on "*… to enhance … with Kiko's RF interface to add in various different types of access technologies to gain access to remote nodes (Kiko, ¶208)*". The

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rationale is conclusory and general, and DOES NOT explain HOW the added RF interface is used in the Sharood device, and WHAT is the 'supplement functionality' provided by using these added elements. Thus the rationale is conclusory and general, while "*conclusory statement is insufficient to support obviousness*" [In re Nuvasive, Inc., 842 F.3d 1376, 1381-82 (Fed. Cir. 2016)], and "*[O]bviousness requires a suggestion of all limitations in a claim.*" [CFMT, Inc. v. Yieldup Int 'l Corp., 349 F.3d 1333, 1342 (Fed. Cir. 2003) (citing In re Royka, 490 F.2d 981, 985 (CCPA 1974))]. Such a conclusory statement is insufficient to establish persuasively that a person of ordinarily skill in the art would have recognized some deficiency in the Sharood reference or had some other reason to look to any other reference and combine its teachings with those of Sharood. Further, "*[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 (quoting In re Kahn, 441 F.3d 977, 988 (Fed. Cir. 2006)).

d. The rejection is based on that motivation "… *to enhance the system of appliance monitoring device equipped with various types of sensors and consumer accessory devices that supplements functionality of appliance as disclosed by Sharood … with Kiko's RF interface to add in various different types of access technologies to gain access to remote nodes (Kiko, ¶208)*", and is further based on paragraph 0208 of the Kiko reference that merely states: "*FIG. 13 a shows the interconnection between a switch/hub 1302 and powered end station 1304. FIG. 13 b shows an exemplary configuration of the powered end station 1304 showing Ethernet and internal*

power paths. FIG. 13 c is a block diagram of an exemplary multi-port switch/hub and line power source apparatus 1306 that may be used, inter alia, with the server devices 102 previously described herein.". First, there is no link between the cited paragraph 0208 and the stated rationale. Second, the claims 44-46 involves photoelectric and image sensors. Thus, the recited limitations are NOT relevant to any communication features in general, to any RF interface in particular, or to any "*various different types of access technologies to gain access to remote nodes*", rendering the rationale irrelevant and moot.

Office Action, section 13 pages 33-35

Claims 61, 63 and 64 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sharood *et al.* (US 2001/0025349 - hereinafter "Sharood") in view of Ansari *et al.* (US 2010/0071053 - hereinafter "Ansari").

Claims 61, 63 and 64

Argument #37: Non-analogous references.

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

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included in the Examiner Answer, as defined in the rules. If the reference are combined as pertaining to the same problem, it is hereby requested that the definition of the problem relating to both of the cited references will be included in the Examiner Answer, as defined in the rules.

Further, it is settled that "*A reference is reasonably pertinent to the problem at issue if it* ***"logically*** *would have commended itself to an inventor's attention in considering his problem.""* *In re Clay*, 966 F .2d 656, 659 (Fed. Cir. 1992) (emphasis added). If the reference are combined as pertaining to the same problem, it is hereby requested that the definition of the problem relating to both of the cited references will be included in the Examiner Answer, as defined in the rules.

It is further noted that in a restriction dated August 28, 2018, these claims were each individually defined by the Examiner as 'distinct inventions' from claim 1 that ***'are not obvious variants'***. It is noted that such restriction is NOT detached from patentability requirement, as such linking is expressed by the MPEP itself, stating in MPEP 803(II): "*If there is an express admission that the claimed inventions would have been obvious over each other within the meaning of 35 U.S.C. 103, restriction should not be required.*" In re Lee, 199 USPQ 108(Comm'r Pat. 1978). Further, it is explicitly stated in MPEP §806.04(h) that "***Species Must Be Patentably Distinct From Each Other***".

Argument #38: Improper rationale for combination of the Sharood and Ansari references.

The rationale for combining the Sharood and Ansari references is stated as "… *to enhance the system of appliance monitoring device as disclosed by Sharood by adding services*

(such as assigning unique addresses to sensors) 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 (Ansari, ¶1)".

a. While the claims 61, 63, and 64 recite different sensors, the SAME rationale is used for ALL claims. Hence, inherently the rationale provides no link to the specific claim, as required in MPEP 2143 that clearly states that "*Any rationale employed must provide* ***a link between the factual findings and the legal conclusion of obviousness.***" (Emphasis added), and "… there must be "*some articulated reasoning with some rational underpinning" to support the Examiner's findings and conclusion of obviousness*". See KSR Inti Co. v. Teleflex Inc., 550 U.S. 401, 418 (2007). It is noted that the technology was not evolved to use ONLY a single wireless technology, various communication technologies have been developed for a reason, since each technology is adapted to a specific scenario, application, and medium. Hence different reasoning and rationale should be used for using each technology. In particular, some of the wireless technologies do not lend themselves to be used in Building Automation as described by the Sharood reference. Further, claims 63 and 64 depend from claim 61, hence the SAME rationale is redundant and "*Where the secondary reference disclosed an advantage, but where none of the cited prior art references suggested that the primary reference could benefit from that advantage or was in need of that advantage*". [See, e.g., Ex parte Saiki, No. 2000-0373, 2002 WL 32102452, at *3 (B.P.A.I. Jan. 17, 2002); Ex parte Burak, No. 2004-0823, 2004 WL 4981768, at *4 (Dec. 8, 2004)].

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Further, such modification is clearly redundant, rendering the combination moot. It is noted that where the secondary reference disclosed an advantage, and where the primary reference already possessed that advantage. [See, e.g., Ex parte Anttila & Jung, No. 2010-006328, 2012 WL 4718520, at *3 (B.P.A.I. Sept. 27, 2012); Kastelewicz, 2009 WL 1719394, at *5-7; Ex parte Levine, No. 2010-001240, 2012 WL 4483329, at *3 (B.P.A.I. Sept. 25, 2012)].

b. The rationale is based on "… *to enhance the system of appliance monitoring device as disclosed by Sharood by adding services (such as assigning unique addresses to sensors) 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 (Ansari, ¶1)*". The rationale is conclusory and general, and DOES NOT explain HOW the added sensor are used in the Sharood device, and WHAT are the 'added services' provided by using these added elements. Thus the rationale is conclusory and general, while "*conclusory statement is insufficient to support obviousness*" [In re Nuvasive, Inc., 842 F.3d 1376, 1381-82 (Fed. Cir. 2016)], and "*[O]bviousness requires a suggestion of all limitations in a claim*." [CFMT, Inc. v. Yieldup Int 'l Corp., 349 F.3d 1333, 1342 (Fed. Cir. 2003) (citing In re Royka, 490 F.2d 981, 985 (CCPA 1974))]. Such a conclusory statement is insufficient to establish persuasively that a person of ordinarily skill in the art would have recognized some deficiency in the Sharood reference or had some other reason to look to any other reference and combine its teachings with those of Sharood.

c. The rationale is based on "… *to enhance the system of appliance monitoring device as disclosed by Sharood by adding services (such as assigning unique addresses to sensors)* ***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*** *(Ansari, ¶1)*" (Emphasis added). However, the retrofit plug 125 in the Sharood reference **already**, as admitted in the rejection of claim 1, provides the functionality of exposing its presence in a network for controlling an appliance.

d. It is trivial, inherent, and self-evident that <u>always</u> adding a feature A to any device results in a device having a capability of feature A. Similarly, it is trivial, inherent, and self-evident that <u>always</u> adding the functionality of addressing mechanism results in the rationale of "… *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* `. Thus, the Action fails to provide any reasoning WHY any such action is required to start with, and the rationale provides no link to the present application, as required in MPEP 2143 that clearly states that "*Any rationale employed must provide* ***a link between the factual findings and the legal conclusion of obviousness.***" (Emphasis added), and "… there must be "*some articulated reasoning with some rational underpinning" to support the Examiner's findings and conclusion of obviousness*". See KSR Inti Co. v. Teleflex Inc., 550 U.S. 401, 418 (2007). Further, "*[R]ejections on obviousness grounds cannot be sustained by mere conclusory statements; instead, there must be some articulated reasoning*

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with some rational underpinning to support the legal conclusion of obviousness." KSR, 550 U.S. at 418 (quoting In re Kahn, 441 F.3d 977, 988 (Fed. Cir. 2006)).

d. The rejection is based on paragraph 0001 of the Ansari reference that merely states: "*The gateway device may be configured by a services subscriber and/or service provider 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*". The Action clearly misrepresent the passage from the Ansari reference, which is clearly directed to a 'gateway device' and NOT to any addressing schemes as recited in the claims.

Office Action, section 14 pages 35-36

Claim 62 is rejected under 35 U.S.C. 103(a) as being unpatentable over Sharood *et al.* (US 2001/0025349 - hereinafter "Sharood") in view of Wong *et al.* (US 2011/0298301 - hereinafter "Wong").

NOTE: Claim 62 depends from claim 61 which was rejected on section 13 based on combining with the Ansari reference. Hence, the rejection should be based on both the Ansari and Wong references.

Claim 62

Argument #39: Non-analogous references.

The Action is based on combining the Sharood and Wong references. The Applicant submits that the cited references are directed towards respectively different fields

and purposes, and are based on respectively different structures, and thus are not analogous to one another and cannot logically be combined. The Action does not explain, as required by the rules, what is the reasoning behind the combining of the references, and why these references are analogous to each other. **If the reference are combined as being in the same field, it is hereby requested that the definition of the field of both the cited references will be included in the Examiner Answer, as defined in the rules. If the reference are combined as pertaining to the same problem, it is hereby requested that the definition of the problem relating to both of the cited references will be included in the Examiner Answer, as defined in the rules.**

Further, it is settled that "*A reference is reasonably pertinent to the problem at issue if it* ***"logically*** *would have commended itself to an inventor's attention in considering his problem.*"" *In re Clay*, 966 F .2d 656, 659 (Fed. Cir. 1992) (emphasis added). If the reference are combined as pertaining to the same problem, it is hereby requested that the definition of the problem relating to both of the cited references will be included in the Examiner Answer, as defined in the rules.

It is further noted that in a restriction dated August 28, 2018, this claim was defined by the Examiner as 'distinct inventions' from claim 1 that '***are not obvious variants***'. It is noted that such restriction is NOT detached from patentability requirement, as such linking is expressed by the MPEP itself, stating in MPEP 803(II): "*If there is an express admission that the claimed inventions would have been obvious over each other within the meaning of 35 U.S.C. 103, restriction should not be required.*" In re Lee, 199 USPQ 108(Comm'r Pat. 1978). Further, it is explicitly stated in

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MPEP §806.04(h) that "***Species Must Be Patentably Distinct From Each Other***".

Argument #40: Improper rationale for combination of the Sharood and Wong references.

The rationale for combining the Sharood and Wong references is stated as "… *to enhance the system of appliance monitoring device as disclosed by Sharood by 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 the IEEE 802.11 wireless networking standard (Wi-Fi) to a wireless network access point (Wong, ¶14)*".

a. The rejection is based on paragraph 0014 of the Wong reference that merely states: "*A communication module operative to transmit AC power values calculated based on the measured AC voltage and AC current in accordance with the IEEE 802.11 wireless networking standard (Wi-Fi) to a wireless network access point*.". The Action clearly misrepresent the passage from the Wong reference, and further fails to explain WHY and HOW the recited limitation of the various addressing schemes relates in any way to the benefit of "… *to transmit AC power values calculated based on the measured AC voltage and AC current in accordance with the IEEE 802.11 wireless networking standard (Wi-Fi) to a wireless network access point*".

b. The rejection is based on "… *adding services (such as assigning unique addresses to sensors)*" – It is respectfully submitted that adding address to a sensor is NOT a service by itself but at best a mean to provide a service.

c. Claim 62 is dependent from claim 61, which discloses the mechanism of assigning addresses to sensors, as admitted in the rejection of claim 61. Hence, the stated advantage is clearly redundant to the Sharood reference combined with the Ansari reference as stated in the rejection of claim 61. Hence, the Sharood / Ansari combination **already** discloses various sensors and consumer accessory devices, as admitted in the Action itself in the rejection of claim 61, and lraedy provides the benefit of "… *by adding services (such as assigning unique addresses to sensors)".* Further, "*Where the secondary reference disclosed an advantage, but where none of the cited prior art references suggested that the primary reference could benefit from that advantage or was in need of that advantage*". [See, e.g., Ex parte Saiki, No. 2000-0373, 2002 WL 32102452, at *3 (B.P.A.I. Jan. 17, 2002); Ex parte Burak, No. 2004-0823, 2004 WL 4981768, at *4 (Dec. 8, 2004)].

Further, such modification is clearly redundant, rendering the combination moot. It is noted that where the secondary reference disclosed an advantage, and where the primary reference already possessed that advantage. [See, e.g., Ex parte Anttila & Jung, No. 2010-006328, 2012 WL 4718520, at *3 (B.P.A.I. Sept. 27, 2012); Kastelewicz, 2009 WL 1719394, at *5-7; Ex parte Levine, No. 2010-001240, 2012 WL 4483329, at *3 (B.P.A.I. Sept. 25, 2012)].

d. The rationale is based on "*to transmit AC power values calculated based on the measured AC voltage and AC current in accordance* ***with the IEEE 802.11 wireless networking standard (Wi-Fi) to a wireless network access point*** *(Wong, ¶14)*" (Emphasis added). However, the rationale is the rejection of the parent claim 61 is based on "wide area network" and NOT

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local area network as stated in this rationale. Furthermore, claim 62 is directed to Layer-2 addressing, and not to Layer-2 addressing (IP layer) relating to a Wide Area Network as started in the rationale.

e. The rationale is based on "… *to enhance the system of appliance monitoring device as disclosed by Sharood by 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 the IEEE 802.11 wireless networking standard (Wi-Fi) to a wireless network access point (Wong, ¶14)*"". The rationale is conclusory and general, and DOES NOT explain HOW the added sensor are used in the Sharood device, and WHAT is the 'added services' provided by using these added elements. Thus the rationale is conclusory and general, while "*conclusory statement is insufficient to support obviousness*" [In re Nuvasive, Inc., 842 F.3d 1376, 1381-82 (Fed. Cir. 2016)], and "*[O]bviousness requires a suggestion of all limitations in a claim*." [CFMT, Inc. v. Yieldup Int 'l Corp., 349 F.3d 1333, 1342 (Fed. Cir. 2003) (citing In re Royka, 490 F.2d 981, 985 (CCPA 1974))]. Such a conclusory statement is insufficient to establish persuasively that a person of ordinarily skill in the art would have recognized some deficiency in the Sharood reference or had some other reason to look to any other reference and combine its teachings with those of Sharood. Further, "*[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 (quoting In re Kahn, 441 F.3d 977, 988 (Fed. Cir. 2006)).

Conclusion

In conclusion, the rejection of claims 1-64 under 35 U.S.C. 102(b) and 103(a) should be cancelled, resulting allowance of the all pending claims. Attached hereto is an Appendix containing a copy of the claims involved in this appeal.

Respectfully submitted,

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

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Appendix A – Pending claims

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.

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

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

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

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

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

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

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

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

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

11. The appliance according to claim 7, wherein the electrically actuated switch is based on an electrical circuit that comprises an open collector transistor, an open drain transistor, a thyristor, a TRIAC, or an opto-isolator.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

31. The appliance according to claim 30, wherein the cellular telephone network is a Third Generation (3G) network that uses

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

33. The appliance according to claim 32, further comprising an electrically actuated switch connected to switch electric power to at least part of the appliance, the switch is coupled to the first sensor for being activated in response to the physical phenomenon.

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

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

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

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

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

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

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

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

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

43. The appliance according to claim 42, wherein the photoelectric sensor is based on the photoelectric or photovoltaic effect, and consists of, or comprises, a

semiconductor component that consists of, or comprises, a photodiode, a phototransistor, or a solar cell.

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

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

46. The appliance according to claim 45, further comprising an image processor coupled to the image sensor for providing a digital data video signal according to a digital video format, the digital video signal carrying digital data video based on the captured images, and wherein the digital video format is based on one out of: TIFF (Tagged Image File Format), RAW format, AVI, DV, MOV, WMV, MP4, DCF (Design Rule for Camera Format), ITU-T H.261, ITU-T H.263, ITU-T H.264, ITU-T CCIR 601, ASF, Exif (Exchangeable Image File Format), and DPOF (Digital Print Order Format) standards.

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

48. The appliance according to claim 47, wherein the electrochemical sensor consists of, or comprises, a pH meter or a gas sensor responding to a presence of radon, hydrogen,

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oxygen, or Carbon-Monoxide (CO), or wherein the electrochemical sensor is based on optical detection or on ionization and is a smoke, a flame, or a fire detector, or is responsive to combustible, flammable, or toxic gas.

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

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

51. The appliance according to claim 1, further comprising in the single enclosure a light source that emits visible or non-visible light for illumination or indication, the non-visible light is infrared, ultraviolet, X-rays, or gamma rays, the light source is coupled to the AC connector for being powered from the AC power, and wherein the light source is coupled to the wireless transceiver for illumination or indication in response to digital data received from the wireless network.

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

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

54. The appliance according to claim 1, further comprising in the single enclosure an actuator for affecting a physical

phenomenon, wherein the actuator is coupled to the wireless transceiver for being activated or controlled in response to digital data received from the wireless network.

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

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

57. The appliance according to claim 54, wherein the actuator consists of, or comprises, an electromagnetic coil or an electromagnet operative for generating a magnetic or electric field.

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

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

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

61. The appliance according to claim 1, further being addressable in the wireless network using distinct locally

administered addresses or a universally administered digital addresses stored in a volatile or non-volatile memory in the single enclosure, which uniquely identifying the appliance in the wireless network or in the Internet.

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

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

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

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15/992,221	05/30/2018	Yehuda BINDER	BINDER-014-US7	8906

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

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

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

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

Period for Reply

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

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

Status

1)☑ Responsive to communication(s) filed on 6/28/19.

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

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

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

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

Disposition of Claims*

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

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

6) ☐ Claim(s) _____ is/are allowed.

7) ☑ Claim(s) 1-64 is/are rejected.

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

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

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

Application Papers

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

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

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

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

Priority under 35 U.S.C. § 119

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

Certified copies:

a)☐ All b)☐ Some** c)☐ None of the:

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

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

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

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

Attachment(s)

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

2) ☐ Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/SB/08b) Paper No(s)/Mail Date _____.

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

4) ☐ Other: _____.

DETAILED ACTION

Reopening Prosecution

1. In view of the Appeal Brief on 6/28/2019, PROSECUTION IS HEREBY REOPENED. New grounds of rejection are set forth below.

To avoid abandonment of the application, appellant must exercise one of the following two options:

(1) file a reply under 37 CFR 1.111 (if this Office action is non-final) or a reply under 37 CFR 1.113 (if this Office action is final); or,

(2) initiate a new appeal by filing a notice of appeal under 37 CFR 41.31 followed by an appeal brief under 37 CFR 41.37. The previously paid notice of appeal fee and appeal brief fee can be applied to the new appeal. If, however, the appeal fees set forth in 37 CFR 41.20 have been increased since they were previously paid, then appellant must pay the difference between the increased fees and the amount previously paid.

A Supervisory Patent Examiner (SPE) has approved of reopening prosecution by signing below:

/PHILIP J CHEA/
Supervisory Patent Examiner, Art Unit 2456

Notice of Pre-AIA or AIA Status

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

3. Claims 1 - 64 are pending.

Priority

4. Applicant's claim for the benefit of a prior-filed continuation of application no. 15/361,434 filed on 11/27/20163, which is a DIV of application no. 13/733,634filed on 01/03/2013, which has a provisional

application no. 61/584,500 filed on 01/09/2012, 61/620,129 filed on 04/04/2012, 61/637,030 filed on 04/23/2012, and 61/647,034 filed on 05/15/2012 under 35 U.S.C. 119(e) is acknowledged.

Response to the Appeal Brief Filed

5. The applicant's arguments and ground(s) of rejection set forth in the Office Action dated on 5/13/19, from which the appeal brief is filed, have been reconsidered. The Office reopens the prosecution with new grounds of rejection. Restriction mailed on 8/28/18 is withdrawn, thus, all pending claims 1 - 64 as filed 5/30/18 (with amendments 10/3/18) are hereby examined.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of pre-AIA 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

> A person shall be entitled to a patent unless –
>
> (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

6. **Claims 1-7, 9-10, 12-19, 32-34, 36 and 54-60** are rejected under 35 U.S.C. 102(b) as being unpatentable over US Patent Application Publication No. 2001/0025349 to Sharood et al. (hereinafter Sharood).

Regarding Claim 1, Sharood discloses (¶5) a monitoring device connected to an appliance that receives power from a source and outputs data via communication transceiver that further includes:

an Alternating-Current (AC) powered appliance associated with food storage, handling, or preparation for use with a wireless network, the appliance comprising an AC connector for connecting the appliance to an AC power source; Sharood discloses an appliance 130 such as a refrigerator or an

oven (¶93) connected to the slots 601 and 602 of a retrofit plug 125 (Fig. 6D and ¶86). The pins 603 and 604 of retrofit plug 125 connects with the main electrical supply that supply power to the appliance 130, wherein the main power supply can be 100V to 264V and 50/60 Hz (¶87). The retrofit plug 125 is equipped with an RF transceiver 680 so that the plug may be incorporated in a wireless network 4 for monitoring and control of the associated appliance (¶85).

a current sensor coupled to the AC connector for measuring an AC current consumed by the appliance; Sharood discloses (¶89) *the measure and transmit circuity 620* in the retrofit plug can monitor and report the current drawn by the attached appliance 130.

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; Sharood discloses (¶89) *the measure and transmit circuity 620* in the retrofit plug send current draw data, power data or messages to a remote control server 100 (¶91) using wireless modem (¶98) or the RF transceiver (¶85).

and a single enclosure housing, the antenna, and the wireless transceiver; Sharood discloses (Fig. 6d) a retrofit plug 126 with housing 600 and containing a RF transceiver 680 for transmitting data based on the measured current (¶8).

wherein the appliance is controlled or activated in response to digital data received from the wireless network; Sharood discloses (¶94) the retrofit plug 125 allows remote control of the appliance as it includes a power-switching device that permits dimming, enables current flow regulation and remote shutdown of the attached appliance. The retrofit plug 125 also can be equipped with an RF transceiver so that the plug may be incorporated in a wireless network 4 for monitoring and control of an associated appliance (¶85).

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; Sharood discloses (¶89) *the measure and*

transmit circuity 620 in the retrofit plug can monitor and report the current drawn by the attached appliance 130. The measure and transmit circuitry 620 send current draw data, power data or messages to a remote control server 100 (¶91) using wireless modem (¶98) or the RF transceiver (¶85).

Regarding Claim 2, the reference Sharood discloses all the elements with respect to claim 1. Further, Sharood discloses:

wherein the primary function of the appliance is heating food; Sharood discloses an appliance 130 such as a refrigerator or an oven (¶93) connected to a retrofit plug 125 (Fig. 6B and ¶86).

Regarding Claim 3, the reference Sharood discloses all the elements with respect to claim 2. Further, Sharood discloses:

wherein the appliance comprises a microwave oven, an electric mixer, a stove, an oven, or an induction cooker; Sharood discloses an appliance 130 such as a refrigerator or an oven (¶93) connected to a retrofit plug 125 (Fig. 6B and ¶86).

Regarding Claim 4, the reference Sharood discloses all the elements with respect to claim 1. Further, Sharood discloses:

wherein the primary function of the appliance is cooling food; Sharood discloses an appliance 130 such as a refrigerator or an oven (¶93) connected to a retrofit plug 125 (Fig. 6B and ¶86).

Regarding Claim 5, the reference Sharood discloses all the elements with respect to claim 4. Further, Sharood discloses:

wherein the appliance comprises a refrigerator, a freezer, or an iced-tea maker; Sharood discloses an appliance 130 such as a refrigerator or an oven (¶93) connected to a retrofit plug 125 (Fig. 6B and ¶86).

Regarding Claim 6, the reference Sharood discloses all the elements with respect to claim 1. Further, Sharood discloses:

wherein the appliance comprises a dishwasher, a food blender, a beverage maker, or a coffeemaker; Sharood discloses (¶4) automation system monitors the use of all home appliances that receives power from a source (¶5) and provide this information to a monitoring facility or a service provider. Examples of such common home appliances 130 well known in the art are refrigerator, oven, washer, dryer (¶93) etc. connected to a retrofit plug 125 and to the main AC supply (Fig. 6B and ¶87).

Regarding Claim 7, the reference Sharood discloses all the elements with respect to claim 1. Further, Sharood discloses:

further comprising in the single enclosure an electrically actuated switch connected to switch electric power to at least part of the appliance, wherein the electrically actuated switch is coupled to the wireless transceiver for being activated in response to digital data received from the wireless network; Sharood discloses an appliance 130 connected to a retrofit plug 125 (Fig. 6B) and the retrofit plug 125 connects with the main electrical supply that supply power to the appliance 130, wherein the main power supply can be 100V to 264V and 50/60 Hz (¶87). The retrofit plug 125 is equipped with an RF transceiver so that the plug may be incorporated in a wireless network 4 for monitoring and control of the appliance (¶85). Sharood discloses (¶94) the retrofit plug 125 allows remote control of the appliance as it includes a power-switching device that permits dimming, enables current flow regulation and remote

shutdown of the attached appliance. If the appliance malfunctions, the control server can turn off the appliance before permanent harm is done (¶238).

Regarding Claim 9, the reference Sharood discloses all the elements with respect to claim 7. Further, Sharood discloses:

wherein the electrically actuated switch is a latching or a non-latching type relay; Sharood discloses an electrically actuated latching mechanism (¶131).

Regarding Claim 10, the reference Sharood discloses all the elements with respect to claim 7. Further, Sharood discloses:

wherein the relay is a solenoid-based electromagnetic relay that is a reed relay, wherein the relay is solid-state or semiconductor based, or wherein the relay is a Solid State Relay (SSR); Sharood discloses an electrically actuated solenoid magnetic latching mechanism (¶131). The latching system can have one or two magnets. A capacitor is charged from the battery using a trickle charge. In response to a control signal the capacitor can cause an induction, which actuates the magnet that holds register in one operation state. A second magnet or gravity is used to return the register to its other operational state.

Regarding Claim 12, the reference Sharood discloses all the elements with respect to claim 1. Further, Sharood discloses:

wherein the current sensor comprises an ampermeter, galvanometer, or a hotwire ampermeter; Sharood discloses (¶88) a measure and transmit circuit 620 is connected to a current transformer 610 to measure the current being drawn by the appliance attached to the retrofit plug 125. Other circuitry that could be used to monitor the current drawn by the attached appliance includes a Rogowski coil or a shunt.

Regarding Claim 13, the reference Sharood discloses all the elements with respect to claim 1. Further, Sharood discloses:

wherein the current sensor comprises a current clamp, a current probe, a current transformer, or uses a 'Hall effect'; Sharood discloses (¶88) a measure and transmit circuit 620 is connected to a current transformer 610 to measure the current being drawn by the appliance attached to the retrofit plug 125.

Regarding Claim 14, the reference Sharood discloses all the elements with respect to claim 1. Further, Sharood discloses:

wherein the current sensor is a non-contact or a non-conductive current meter; Sharood discloses (¶88) a measure and transmit circuit 620 is connected to a current transformer 610 to measure the current being drawn by the appliance attached to the retrofit plug 125. Other circuitry that could be used to monitor the current drawn by the attached appliance includes a Rogowski coil or a shunt.

Regarding Claim 15, the reference Sharood discloses all the elements with respect to claim 1. Further, Sharood discloses:

a wattmeter connected to the AC connector for measuring the magnitude of the active AC power or an electrical energy consumed by the appliance; Sharood discloses (¶87) retrofit plug is connected with the main power supply powering the appliance with an AC voltage (e.g., 100V to 264V and 50/60 Hz). Sharood discloses (¶89) the measure and transmit circuit 620 can simply monitor and report the current drawn by the attached appliance 130. In addition, if the appliance's load current is measured, an indication of power can be derived from the square of the load current. Line voltage may be measured and multiplied by the load current to measure true power consumption.

Regarding Claim 16, the reference Sharood discloses all the elements with respect to claim 15. Further, Sharood discloses:

wherein the wattmeter comprises single or multi-phase AC power or energy meter; Sharood discloses (¶87) retrofit plug is connected with the main power supply powering the appliance with an AC voltage (e.g., 100V to 264V and 50/60 Hz). Sharood discloses (¶89) the measure and transmit circuit 620 measures the appliance's load current, and an indication of power can be derived from the square of the load current. Line voltage may be measured and multiplied by the load current to measure true power consumption.

Regarding Claim 17, the reference Sharood discloses all the elements with respect to claim 15. Further, Sharood discloses:

wherein the wattmeter comprises a bolometer, or wherein the wattmeter accumulates or averages readings; Sharood discloses (¶90) the current draw data or power data can be stored by the measure and transmit circuit 620. The measure and transmit circuit 620 is programmed to compare measurement data to specific electronic signatures stored in the memory of the retrofit plug 125.

Regarding Claim 18, the reference Sharood discloses all the elements with respect to claim 15. Further, Sharood discloses:

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; Sharood discloses (¶89) the measure and transmit circuit 620 measures the appliance's load current, and an indication of power can be derived from the square of the load current. Line voltage may be measured and multiplied by the load current to measure true power consumption.

Regarding Claim 19, the reference Sharood discloses all the elements with respect to claim 15. Further, Sharood discloses:

wherein the wattmeter or the current sensor are induction based; Sharood discloses (¶88) a measure and transmit circuit 620 is connected to a current transformer 610 to measure the current being drawn by the appliance attached to the retrofit plug 125. Other circuitry that could be used to monitor the current drawn by the attached appliance includes a Rogowski coil or a shunt. Sharood discloses (¶131) In response to a control signal the capacitor can cause an induction, which actuates the magnet that holds register in one operation state.

Regarding Claim 32, the reference Sharood discloses all the elements with respect to claim 1. Further, Sharood discloses:

further comprising in the single enclosure a first sensor having an output that responds to a physical phenomenon, the first sensor is coupled to the wireless transceiver for transmitting digital data in response to the measured physical phenomenon to the wireless network; Sharood discloses (¶130) a wireless temperature sensor to be included in the air damper 900 for zoned smart HVAC control. The sensor communicates through the RF network to transmit data to the zone controller or control server (¶133). An RF transceiver 1130 transmits control commands to and receives responses from the dampers in response to the commands (¶134).

Regarding Claim 33, the reference Sharood discloses all the elements with respect to claim 32. Further, Sharood discloses:

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; Sharood discloses (Fig. 10, ¶131 and ¶133) a damper 900 with a sensor 1060 to measure temperature at the damper. The measurement is supplied to the zone controller as input and a switch

mechanism 1020 is actuated to allow air flow to set the required temperature by controlling a valve/register to the room radiator feed or air damper. Also, the universal controller 110 interfaces directly with a fire alarm system or individual smoke detectors allowing the universal controller to close all dampers and turn of the boiler and air circulating fan upon detection of a fire (¶227).

Regarding Claim 34, the reference Sharood discloses all the elements with respect to claim 32. Further, Sharood discloses:

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**;** Sharood discloses (Fig. 10, ¶131 and ¶133) a damper 900 with a sensor 1060 to measure temperature at the damper (i.e. temperature sensor is an example of piezoelectric sensor).

Regarding Claim 36, the reference Sharood discloses all the elements with respect to claim 32. Further, Sharood discloses:

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)**;** Sharood discloses (Fig. 10, ¶131 and ¶133) a damper 900 with a sensor 1060 to measure temperature at the damper (i.e. temperature sensor is an example of piezoelectric sensor).

Regarding Claim 54, the reference Sharood discloses all the elements with respect to claim 1. Further, Sharood discloses:

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; Sharood discloses an appliance 130 connected to a retrofit plug 125 (Fig. 6B) and the retrofit plug 125 connects with the main electrical supply that supply power to the appliance 130, wherein the main power supply can be 100V to 264V and 50/60 Hz (¶87). The retrofit plug 125 is equipped with an RF transceiver so that the plug may be incorporated in a wireless network 4 for monitoring and control of the appliance (¶85). Sharood discloses (¶94) the retrofit plug 125 allows remote control of the appliance as it includes a power-switching device that permits dimming, enables current flow regulation and remote shutdown of the attached appliance. If the appliance malfunctions, the control server, connected remotely with a wired/wireless network, can turn off the appliance before permanent harm is done (¶238).

Regarding Claim 55, the reference Sharood discloses all the elements with respect to claim 54. Further, Sharood discloses:

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; Sharood discloses (¶131) the mechanism 1020 actuates the register to allow air flow in response to a signal received from the controller 1040. Sharood discloses (¶140) that the control system could be applied to various flow control actuation devices, such as hydronic systems using, for example a valve, or to close all dampers and turn of the boiler and air circulating fan upon detection of a fire (¶227).

Regarding Claim 56, the reference Sharood discloses all the elements with respect to claim 54. Further, Sharood discloses:

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; Sharood discloses (¶109-¶113) that if a standard touchpad 152 is connected with the system as an actuator, then it provides alarm and alert notification by means of color and sound, examples of which are: Red-Flashing with buzzer, extreme alarm such as fire or intrusion detection, Yellow with beeper i.e. general alert such as hurricane warning or other weather or news advisory and Green with low level beeper, i.e. general information, such as clothes are ready from the dryer.

Regarding Claim 57, the reference Sharood discloses all the elements with respect to claim 54. Further, Sharood discloses:

wherein the actuator consists of, or comprises, an electromagnetic coil or an electromagnet operative for generating a magnetic or electric field; Sharood discloses (¶131) a mechanism 1020, such as, for example, a solenoid, a spring, a shape memory wire, or a magnetic latching mechanism, is coupled to the register 1010. The mechanism 1020 actuates the register to allow air flow in response to a signal received from the controller 1040.

Regarding Claim 58, the reference Sharood discloses all the elements with respect to claim 54. Further, Sharood discloses:

wherein the actuator consists of, or comprises, an electrical signal generator; Sharood discloses (¶94) a retrofit plug 125 also can include a power-switching device under control of the measure and transmit circuit 620. The power-switching device enables remote shutdown of the attached appliance, for example, through the retrofit plug 125, if a situation occurs that may damage the appliance if operation is continued or if a hazardous condition may result from continued operation. The power-switching device also can permit dimming and variable current flow regulation for remote control of the appliance.

Regarding Claim 59, the reference Sharood discloses all the elements with respect to claim 54. Further, Sharood discloses:

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; Sharood discloses (¶52 and ¶89) a process control apparatus 28 may be configured to modify properties of one or more consumables or resources such as temperature or a chemical property. For example, temperature could be raised by actuating a heater, and chemical properties might be changed by controlling a mixture of at least two consumables and/or resources by using a motor and an auger. Process control apparatus 28 may optionally include a mechanism to affect the use of a resource, such as an actuator for a valve. As another example, first substance communicating device 12 may be an automatic clothes washer acting as a host for the second substance communicating device 16, and second substance communicating device 16 may be an additive dispensing accessory capable of dispensing one or more fabric treatment chemicals, such as detergent, bleach or softener, for use by the automatic clothes washer in the processing of a fabric load.

Regarding Claim 60, the reference Sharood discloses all the elements with respect to claim 54. Further, Sharood discloses:

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; Sharood discloses (¶52 and ¶89) a process control apparatus 28 may be configured to modify properties of one or more consumables or resources such as temperature or a chemical property. For example, temperature could be raised by actuating a heater, and chemical properties might

be changed by controlling a mixture of at least two consumables and/or resources by using a motor and an auger.

Claim Rejections - 35 USC § 103

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

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

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

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

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

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

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

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

7. **Claims 8, 11, 20-21, 23-24 and 51-53** are rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over US Patent Application Publication No. 2001/0025349 to Sharood in view of US Patent Application Publication No. 2011/0170377 to Legaspi.

Regarding Claim 8, the reference Sharood discloses all the elements with respect to claim 7. Further, Legaspi discloses:

wherein the electrically actuated switch is 'normally open' type, 'normally closed' type, or a changeover switch, wherein the electrically actuated switch is 'make-before-break' or 'break-before-make' type, or wherein the electrically actuated switch have two or more poles or two or more throws, and contacts of the electrically actuated switch are arranged as a Single-Pole-Double-Throw (SPDT), Double-Pole-Double-Throw (DPDT), Double-Pole-Single-Throw (DPST), or Single-Pole-Changeover (SPCO); Legaspi teaches (¶102) a single pole double throw (SPDT) relay located within the receiver to actuate from a closed position to an open positions causing power to be cut-off or interrupted to a valve which regulates flow to energy to the appliance.

It would have been obvious as of the effective filing date to one of ordinary skill in the art to enhance the method and system of a monitoring device connected to an appliance that receives power from a source and outputs data via communication transceiver as disclosed by Sharood, by implementing methods for automatically disabling appliances upon the occurrence of a safety event (Legaspi, ¶2).

Regarding Claim 11, the reference Sharood discloses all the elements with respect to claim 7. Further, Legaspi discloses:

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

It would have been obvious as of the effective filing date to one of ordinary skill in the art to enhance the method and system of a monitoring device connected to an appliance that receives power from a source and outputs data via communication transceiver as disclosed by Sharood, by implementing methods for automatically disabling appliances upon the occurrence of a safety event (Legaspi, ¶2).

Regarding Claim 20, the reference Sharood discloses all the elements with respect to claim 15. Further, Legaspi discloses:

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; Legaspi discloses (¶64) communication interfaces may be implemented using any type of suitable wired or wireless transmitter, receiver, or transceiver such as, for example, a Bluetooth transceiver, an 802.11 (i.e., Wi-Fi) transceiver, a Radio Frequency (RF) transceiver, a cellular communications transceiver, an optical communications transceiver, etc.

It would have been obvious as of the effective filing date to one of ordinary skill in the art to enhance the method and system of a monitoring device connected to an appliance that receives power from a source and outputs data as disclosed by Sharood, by implementing methods for wired and wireless signals transmission such as voice and/or data signals or messages (Legaspi, ¶61).

Regarding Claim 21, the reference Sharood discloses all the elements with respect to claim 20. Further, Legaspi discloses:

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; Legaspi discloses (¶64) communication interfaces may be implemented using any type of suitable wired or wireless transmitter, receiver, or transceiver such as, for example, a Bluetooth transceiver, an 802.11 (i.e., Wi-Fi) transceiver, a Radio Frequency (RF) transceiver, a cellular communications transceiver, an optical communications transceiver, etc.

It would have been obvious as of the effective filing date to one of ordinary skill in the art to enhance the method and system of a monitoring device connected to an appliance that receives power from a source and outputs data as disclosed by Sharood, by implementing methods for wired and wireless signals transmission such as voice and/or data signals or messages (Legaspi, ¶61).

Regarding Claim 23, the reference Sharood discloses all the elements with respect to claim 1. Further, Legaspi discloses:

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; Legaspi discloses (¶64) communication interfaces may be implemented using any type of suitable wired or wireless transmitter, receiver, or transceiver such as, for example, a Bluetooth transceiver, an 802.11 (i.e., Wi-Fi) transceiver, a Radio Frequency (RF) transceiver, a cellular communications transceiver, an optical communications transceiver, etc.

It would have been obvious as of the effective filing date to one of ordinary skill in the art to enhance the method and system of a monitoring device connected to an appliance that receives power from a source and outputs data as disclosed by Sharood, by implementing methods for wired and wireless signals transmission such as voice and/or data signals or messages (Legaspi, ¶61).

Regarding Claim 24, the references Sharood and Legaspi discloses all the elements with respect to claim 23. Further, Legaspi discloses:

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; Legaspi discloses (¶64) communication interfaces may be implemented using any type of suitable wired or wireless transmitter, receiver, or transceiver such as, for example, a Bluetooth transceiver, an 802.11 (i.e., Wi-Fi) transceiver, a Radio Frequency (RF) transceiver, a cellular communications transceiver, an optical communications transceiver, etc.

It would have been obvious as of the effective filing date to one of ordinary skill in the art to enhance the method and system of a monitoring device connected to an appliance that receives power from a source and outputs data as disclosed by Sharood, by implementing methods for wired and wireless signals transmission such as voice and/or data signals or messages (Legaspi, ¶61).

Regarding Claim 51, the reference Sharood discloses all the elements with respect to claim 1. Further, Legaspi discloses:

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; Legaspi discloses (Fig. 19 and ¶99) a receiver housing 1902 having an electrical plug 1904 for plugging into an outlet for supplying power to the receiver 1900, a microphone 1906 for receiving sound waves, a motion detector 1908 for determining the presence of a person and a reset switch 1910. Legaspi discloses (¶100) the single enclosure of the receiver that includes a light 1912 for indicating the status of the receiver or the valve drawing the current. Legaspi discloses (¶64) communication interfaces may be implemented using any type of suitable wired or wireless

transmitter, receiver, or transceiver such as, for example, a Bluetooth transceiver, an 802.11 (i.e., Wi-Fi) transceiver, a Radio Frequency (RF) transceiver, a cellular communications transceiver, an optical communications transceiver, etc.

It would have been obvious as of the effective filing date to one of ordinary skill in the art to enhance the method and system of a monitoring device connected to an appliance that receives power from a source and outputs data as disclosed by Sharood, by implementing detectors (or detector modules) that are configured to emit a signal upon an occurrence of the event (Legaspi, ¶52).

Regarding Claim 52, the references Sharood and Legaspi discloses all the elements with respect to claim 51. Further, Legaspi discloses:

wherein the light source is coupled to the current sensor for illumination or indication in response to the measured AC current; Legaspi discloses (¶100) the single enclosure of the receiver that includes a light 1912 for indicating the status of the receiver or the valve drawing the current.

It would have been obvious as of the effective filing date to one of ordinary skill in the art to enhance the method and system of a monitoring device connected to an appliance that receives power from a source and outputs data as disclosed by Sharood, by implementing detectors (or detector modules) that are configured to emit a signal upon an occurrence of the event (Legaspi, ¶52).

Regarding Claim 53, the references Sharood and Legaspi discloses all the elements with respect to claim 51. Further, they discloses:

wherein the light source is coupled to the current sensor for illumination or indication in response to the measured AC current; Legaspi discloses (¶100) the single enclosure of the receiver that includes a light 1912 for indicating the status of the receiver or the valve drawing the current. Sharood discloses (¶89) the retrofit plug can measure and report the current drawn by the attached appliance 130.

It would have been obvious as of the effective filing date to one of ordinary skill in the art to enhance the method and system of a monitoring device connected to an appliance that receives power from a source and outputs data as disclosed by Sharood, by implementing detectors (or detector modules) that are configured to emit a signal upon an occurrence of the event (Legaspi, ¶52).

8. **Claims 22 and 29** are rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over US Patent Application Publication No. 2001/0025349 to Sharood in view of US Patent Application Publication No. 2011/0170377 to Legaspi in view of US Patent Application Publication No. 2011/0251807 to Rada.

Regarding Claim 22, the references Sharood and Legaspi discloses all the elements with respect to claim 20. Further, Rada discloses:

wherein the WPAN is according to, based on, or compatible with, Zigbee™, IEEE 802.15.4-2003, or Z-Wave™ standards; Rada discloses (¶63-¶67) communication between the energy monitoring device and a remote device can be by any appropriate wired or wireless communication protocol such as RS-232 serial communication, RS-485 serial communication, Ethernet, IEEE-1394, Firewire, X10 or other power line carriers, IEEE 802.11 wireless, IEEE 802.15.4, USB, Zigbee wireless, Bluetooth wireless, Ida., IEEE 802.3x, IEEE 802.15 wireless, or other communications protocol.

It would have been obvious as of the effective filing date to one of ordinary skill in the art to enhance the method and system of a monitoring device connected to an appliance that receives power from a source and outputs data via communication transceiver as disclosed by Sharood in view of Legaspi, by implementing communication methods using IEEE 802.15.4 or Zigbee (with low rates and very low complexity but very long battery life) of accessing the data generated by the energy monitoring device to check the real-time status of energy usage of the appliances and remotely control the electrical devices within the property (Rada, ¶0215).

Regarding Claim 29, the reference Sharood discloses all the elements with respect to claim 1. Further, Rada discloses:

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; Rada discloses (¶70) the energy monitoring device communicates with remote mobile devices either via an Internet interface or via a network router, a D.L. or cable modem, over the Internet, to a cellular tower, then to the remote mobile devices. Rada discloses (¶216) the energy monitoring device sends alerts and messages to a property owner via the Internet to a cell tower in a 4G all IP (internet protocol) network. Messages can be forwarded by other network types such as 3G, WiMax, WiFi, TCP/IP and other network protocols.

It would have been obvious as of the effective filing date to one of ordinary skill in the art to enhance the method and system of a monitoring device connected to an appliance that receives power from a source and outputs data via communication transceiver as disclosed by Sharood in view of Legaspi, by implementing communication methods using IEEE 802.15.4 or Zigbee (with low rates and very low complexity but very long battery life) of accessing the data generated by the energy monitoring device to check the real-time status of energy usage of the appliances and remotely control the electrical devices within the property (Rada, ¶0215).

9. **Claims 25-28, 30-31, 35 and 37** are rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over US Patent Application Publication No. 2001/0025349 to Sharood in view of US Patent Application Publication No. 2005/0125083 to Kiko.

Regarding Claim 25, the reference Sharood discloses all the elements with respect to claim 1. Further, Kiko discloses:

wherein the wireless network is a wireless broadband network; Kiko discloses (¶85-¶86) that network and bearer network refers to any type of telecommunications or data network, but is not limited to, IS-95, CDMA2000, Wideband CDMA (WCDMA), Bluetooth, IrDA interface, IEEE Std. 802.11 (a) or (g), Wireless Application Protocol (WAP), GPRS, GSM, TDMA (e.g., IS-54 or 136), UMTS, 3GPP and 3GPP2, ultrawideband (UWB) systems such as TM-UWB or 802.15, WiMAX, satellite (broadband) systems, or any other of myriad data communication systems and protocols.

It would have been obvious as of the effective filing date to one of ordinary skill in the art to enhance the method and system of a monitoring device as disclosed by Sharood with Kiko's RF interface to add in various different types of access technologies to gain access to remote nodes (Kiko, ¶208).

Regarding Claim 26, the reference Sharood discloses all the elements with respect to claim 1. Further, Kiko discloses:

wherein the wireless network uses a licensed or unlicensed radio frequency band; Kiko discloses (¶242) RF interface 1709 may comprise of any number of different air interfaces including, Bluetooth FHSS, Industrial, Scientific and Medical (ISM) radio band FDMA or TDMA, IEEE-802.11 WiFi, 802.15 PAN, UWB, analog, Z-Wave, an IR (e.g., IrDA) interface , etc. The RF interface may also use other pathways such as e.g., via a local WiFi hotspot which then connects to the server's IP address over the Internet and an installed premises DOCSIS or cable modem, via a DSL line, via a satellite or millimeter wave link, WiMAX interface, etc.

It would have been obvious as of the effective filing date to one of ordinary skill in the art to enhance the method and system of a monitoring device as disclosed by Sharood with Kiko's RF interface to add in various different types of access technologies to gain access to remote nodes (Kiko, ¶208).

Regarding Claim 27, the references Sharood and Kiko discloses all the elements with respect to claim 26. Further, Kiko discloses:

wherein the unlicensed radio frequency band is an Industrial, Scientific and Medical (ISM) radio band; Kiko discloses (¶242) RF interface 1709 may comprise of any number of different air interfaces including, Bluetooth FHSS, Industrial, Scientific and Medical (ISM) radio band FDMA or TDMA, IEEE-802.11 WiFi, 802.15 PAN, UWB, analog, Z-Wave, an IR (e.g., IrDA) interface , etc. The RF interface may also use other pathways such as e.g., via a local WiFi hotspot which then connects to the server's IP address over the Internet and an installed premises DOCSIS or cable modem, via a DSL line, via a satellite or millimeter wave link, WiMAX interface, etc.

It would have been obvious as of the effective filing date to one of ordinary skill in the art to enhance the method and system of a monitoring device as disclosed by Sharood with Kiko's RF interface to add in various different types of access technologies to gain access to remote nodes (Kiko, ¶208).

Regarding Claim 28, the reference Sharood discloses all the elements with respect to claim 1. Further, Kiko discloses:

wherein the wireless network is a satellite network, the antenna is a satellite antenna, and the wireless transceiver is a satellite modem; Kiko discloses satellite receiver (¶108) and that the satellite or millimeter wave link (¶242) is an RF interface pathway such as e.g., via a local WiFi hotspot which then connects to the server's IP address over the Internet and an installed premises DOCSIS or cable modem, via a DSL line, via a satellite or millimeter wave link, WiMAX interface, etc.

It would have been obvious as of the effective filing date to one of ordinary skill in the art to enhance the method and system of a monitoring device as disclosed by Sharood with Kiko's RF interface to add in various different types of access technologies to gain access to remote nodes (Kiko, ¶208).

Regarding Claim 30, the reference Sharood discloses all the elements with respect to claim 1. Further, they discloses:

wherein the wireless network is a cellular telephone network, the antenna is a cellular antenna, and the wireless transceiver is a cellular modem; Sharood discloses using wireless modem (¶98). Kiko discloses wireless transceivers (¶90) to provide connectivity (¶85-¶86) with any type of telecommunications or data network such as IS-95, CDMA2000, Wideband CDMA (WCDMA), Bluetooth, IrDA interface, IEEE Std. 802.11 (a) or (g), Wireless Application Protocol (WAP), GPRS, GSM, TDMA (e.g., IS-54 or 136), UMTS, 3GPP and 3GPP2, ultrawideband (UWB) systems such as TM-UWB or 802.15, WiMAX, satellite (broadband) systems, or any other of myriad data communication systems and protocols.

It would have been obvious as of the effective filing date to one of ordinary skill in the art to enhance the method and system of a monitoring device as disclosed by Sharood with Kiko's RF interface to add in various different types of access technologies to gain access to remote nodes (Kiko, ¶208).

Regarding Claim 31, the references Sharood and Kiko discloses all the elements with respect to claim 30. Further, Kiko discloses:

wherein the cellular telephone network is 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 lxRTT, 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; Kiko discloses (¶85-¶86) that network and bearer network refers to any type of telecommunications or data

network, but is not limited to, IS-95, CDMA2000, Wideband CDMA (WCDMA), Bluetooth, IrDA interface, IEEE Std. 802.11 (a) or (g), Wireless Application Protocol (WAP), GPRS, GSM, TDMA (e.g., IS-54 or 136), UMTS, 3GPP and 3GPP2, ultrawideband (UWB) systems such as TM-UWB or 802.15, WiMAX, satellite (broadband) systems, or any other of myriad data communication systems and protocols.

It would have been obvious as of the effective filing date to one of ordinary skill in the art to enhance the method and system of a monitoring device as disclosed by Sharood with Kiko's RF interface to add in various different types of access technologies to gain access to remote nodes (Kiko, ¶208).

Regarding Claim 35, the reference Sharood discloses all the elements with respect to claim 32. Further, Kiko discloses:

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; Kiko discloses (¶116) multiple pressure sensors, conductivity sensors, and/or flow sensors are to be used to measure the magnitude and frequency of the water.

It would have been obvious as of the effective filing date to one of ordinary skill in the art to enhance the method and system of a monitoring device as disclosed by Sharood with Kiko's RF interface to add in various different types of access technologies to gain access to remote nodes (Kiko, ¶208).

Regarding Claim 37, the reference Sharood discloses all the elements with respect to claim 12. Further, Sharood discloses:

wherein the first sensor consists of, or comprises, a nanosensor, a crystal, or a semiconductor; Kiko discloses temperature sensors (¶23), motion sensor, location sensors (¶113), multiple pressure sensors, conductivity sensors, and/or flow sensors discloses (¶116), and the hardware of such devices may be integrated onto a single substrate (e.g., silicon "die"), or distributed among two or more substrates (¶82).

It would have been obvious as of the effective filing date to one of ordinary skill in the art to enhance the method and system of a monitoring device as disclosed by Sharood with Kiko's RF interface to add in various different types of access technologies to gain access to remote nodes (Kiko, ¶208).

10. **Claims 38-40, 42-43, and 47-50** are rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over US Patent Application Publication No. 2001/0025349 to Sharood in view of US Patent Application Publication No. 2011/0148651 to Hendrickson et al. (hereinafter Hendrickson).

Regarding Claim 38, the reference Sharood discloses all the elements with respect to claim 32. Further, Hendrickson discloses:

wherein the first sensor consists of, or comprises, an eddy-current sensor; Hendrickson discloses (¶46) electromagnetic sensors that includes eddy current sensors.

It would have been obvious as of the effective filing date to one of ordinary skill in the art to enhance the system of appliance monitoring device as disclosed by Sharood with various types of sensors and consumer accessory devices that supplements functionality of appliance (Hendrickson, ¶1).

Regarding Claim 39, the reference Sharood discloses all the elements with respect to claim 32. Further, Hendrickson discloses:

wherein the first sensor consists of, or comprises, an atmospheric or an environmental sensor; Hendrickson discloses (¶46) pressure sensors, light sensors, photovoltaic sensors, magnetic sensors, thermal sensors, chemical sensors etc.

It would have been obvious as of the effective filing date to one of ordinary skill in the art to enhance the system of appliance monitoring device as disclosed by Sharood with various types of sensors and consumer accessory devices that supplements functionality of appliance (Hendrickson, ¶1).

Regarding Claim 40, the reference Sharood discloses all the elements with respect to claim 32. Further, Hendrickson discloses:

wherein the first sensor consists of, or comprises, a bulk or surface acoustic sensor; Hendrickson discloses (¶46) acoustic sensors that include ultrasonic sensors and microphones.

It would have been obvious as of the effective filing date to one of ordinary skill in the art to enhance the system of appliance monitoring device as disclosed by Sharood with various types of sensors and consumer accessory devices that supplements functionality of appliance (Hendrickson, ¶1).

Regarding Claim 42, the reference Sharood discloses all the elements with respect to claim 32. Further, Hendrickson discloses:

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; Hendrickson discloses (¶46) light sensors, photovoltaic sensors, optical sensors, fiber optic sensors, photo resistors, photo diodes, cameras etc.

It would have been obvious as of the effective filing date to one of ordinary skill in the art to enhance the system of appliance monitoring device as disclosed by Sharood with various types of sensors and consumer accessory devices that supplements functionality of appliance (Hendrickson, ¶1).

Regarding Claim 43, the references Sharood and Hendrickson discloses all the elements with respect to claim 42. Further, Hendrickson discloses:

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; Hendrickson discloses (¶46) light sensors, photovoltaic sensors, optical sensors, fiber optic sensors, photo resistors, photo diodes, cameras etc.

It would have been obvious as of the effective filing date to one of ordinary skill in the art to enhance the system of appliance monitoring device as disclosed by Sharood with various types of sensors and consumer accessory devices that supplements functionality of appliance (Hendrickson, ¶1).

Regarding Claim 47, the reference Sharood discloses all the elements with respect to claim 32. Further, Hendrickson discloses:

wherein the first sensor consists of, or comprises, an electrochemical sensor that responds to an object chemical structure, properties, composition, or reactions; Hendrickson discloses (¶46) wherein the first sensor consists of, or comprises, a chemical sensor that responds to an object chemical structure, properties, composition, or reactions.

It would have been obvious as of the effective filing date to one of ordinary skill in the art to enhance the system of appliance monitoring device as disclosed by Sharood with various types of sensors and consumer accessory devices that supplements functionality of appliance (Hendrickson, ¶1).

Regarding Claim 48, the reference Sharood and Hendrickson discloses all the elements with respect to claim 47. Further, Sharood discloses:

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; Sharood discloses (¶228) that CO, CO2, flammable gas sensors could be incorporated for home safety.

It would have been obvious as of the effective filing date to one of ordinary skill in the art to enhance the system of appliance monitoring device as disclosed by Sharood with various types of sensors and consumer accessory devices that supplements functionality of appliance (Hendrickson, ¶1).

Regarding Claim 49, the reference Sharood discloses all the elements with respect to claim 32. Further, Hendrickson discloses:

wherein the first sensor consists of, or comprises, an electroacoustic sensor that responds to an audible or inaudible sound; Hendrickson discloses (¶46) that proximity sensors may detect a change in an electromagnetic field, an electromagnetic wave or an acoustic wave.

It would have been obvious as of the effective filing date to one of ordinary skill in the art to enhance the system of appliance monitoring device as disclosed by Sharood with various types of sensors and consumer accessory devices that supplements functionality of appliance (Hendrickson, ¶1).

Regarding Claim 50, the reference Sharood discloses all the elements with respect to claim 49. Further, Hendrickson discloses:

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; Hendrickson discloses (¶46) that proximity sensors may detect a change in an electromagnetic field, an electromagnetic wave or an acoustic wave. Examples of acoustic sensors include ultrasonic sensors and microphones.

It would have been obvious as of the effective filing date to one of ordinary skill in the art to enhance the system of appliance monitoring device as disclosed by Sharood with various types of sensors and consumer accessory devices that supplements functionality of appliance (Hendrickson, ¶1).

11. **Claim 41** is rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over US Patent Application Publication No. 2001/0025349 to Sharood in view of US Patent Application Publication No. 2010/0211359 to Mehta.

Regarding Claim 41, the reference Sharood discloses all the elements with respect to claim 32. Further, Mehta discloses:

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**;** Mehta discloses (¶29) the sensing unit 302 may measure or detect any kind of change in an area, and examples of types of sensing units include thermal sensors, radiation sensors including a Geiger counter, chemical sensors etc.

It would have been obvious as of the effective filing date to one of ordinary skill in the art to enhance the system of an appliance monitoring device as disclosed by Sharood by adding a wide array of chemical, biological and nuclear sensors for sensing and analyzing properties, conditions, and substances present within the environment, and generating alerts for public safety (Mehta, ¶2).

12. **Claims 44 - 46** are rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over US Patent Application Publication No. 2001/0025349 to Sharood in view of in view of US Patent Application Publication No. 2011/0148651 to Hendrickson and in view of US Patent Application Publication No. 2005/0125083 to Kiko.

Regarding Claim 44, the reference Sharood and Hendrickson discloses all the elements with respect to claim 42. Further, Hendrickson and Kiko discloses:

wherein the photoelectric sensor is based on Charge-Coupled Appliance (CCD) or a Complementary Metal-Oxide Semiconductor (CMOS) element**;** Hendrickson discloses (¶46) light sensors, photovoltaic sensors, optical sensors, fiber optic sensors, photo resistors, photo diodes, cameras etc. Further, Kiko discloses (¶111) that the term "camera" may include not only visual band (optical) cameras, but also non-visual band devices, and includes CCD or CMOS based devices.

It would have been obvious as of the effective filing date to one of ordinary skill in the art to enhance the system of appliance monitoring device equipped with various types of sensors and consumer accessory devices that supplements functionality of appliance as disclosed by Sharood in view of Hendrickson, with Kiko's RF interface to add in various different types of access technologies to gain access to remote nodes (Kiko, ¶208).

Regarding Claim 45, the reference Sharood discloses all the elements with respect to claim 32. Further, Hendrickson and Kiko discloses:

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**;** Hendrickson discloses (¶46) light sensors, photovoltaic sensors, optical sensors, fiber optic sensors, photo resistors, photo diodes, cameras etc. Further, Kiko discloses (¶111) that the term "camera" may include not only visual band (optical) cameras, but also non-visual band devices, and includes CCD or CMOS based devices. For example, in the front porch area of a house, screw-in flood lights and outside cameras with motion detection for event recording are coupled to the system, thereby making their data viewable on any monitor within the structure (or a remote monitoring site such as a security monitoring facility, or even a client device) with Internet or other network access.

It would have been obvious as of the effective filing date to one of ordinary skill in the art to enhance the system of appliance monitoring device equipped with various types of sensors and consumer accessory devices that supplements functionality of appliance as disclosed by Sharood in view of Hendrickson, with Kiko's RF interface to add in various different types of access technologies to gain access to remote nodes (Kiko, ¶208).

Regarding Claim 46, the reference Sharood discloses all the elements with respect to claim 45. Further, Hendrickson and Kiko discloses:

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; Hendrickson discloses (¶46) light sensors, photovoltaic sensors, optical sensors, fiber optic sensors, photo resistors, photo diodes, cameras etc. Further, Kiko discloses (¶111) that the term "camera" may include not only visual band (optical) cameras, but also non-visual band devices, and includes CCD or CMOS based devices. For example, in the front porch area of a house, screw-in flood lights and outside cameras with motion detection for event recording are coupled to the system, thereby making their data viewable on any monitor within the structure (or a remote monitoring site such as a security monitoring facility, or even a client device) with Internet or other network access.

It would have been obvious as of the effective filing date to one of ordinary skill in the art to enhance the system of appliance monitoring device equipped with various types of sensors and consumer accessory devices that supplements functionality of appliance as disclosed by Sharood in view of Hendrickson, with Kiko's RF interface to add in various different types of access technologies to gain access to remote nodes (Kiko, ¶208).

13. **Claims 61, 63 and 64** are rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over US Patent Application Publication No. 2001/0025349 to Sharood in view of US Patent Application Publication No. 2010/0071053 to Ansari et al. (hereinafter Ansari).

Regarding Claim 61, the reference Sharood discloses all the elements with respect to claim 1. Further, Ansari discloses:

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; Ansari discloses endpoint devices in a wireless network (¶96) and that each client is uniquely identified with an IP address that has been dynamically assigned by a DHCP server (¶116).

It would have been obvious as of the effective filing date to one of ordinary skill in the art to enhance the system of an appliance monitoring device as disclosed by Sharood by adding services (such as assigning unique 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 (Ansari, ¶1).

Regarding Claim 63, the references of Sharood and Ansari discloses all the elements with respect to claim 61. Further, Ansari discloses:

wherein the digital address is a layer 3 address and is static or dynamic Internet Protocol (IP) -P-P address that is IPv4 or IPv6 type address; Ansari discloses endpoint devices in a wireless network (¶96) and that each client is uniquely identified with an IP address that has been dynamically assigned by a DHCP server (¶116).

It would have been obvious as of the effective filing date to one of ordinary skill in the art to enhance the system of an appliance monitoring device as disclosed by Sharood by adding services (such as assigning unique 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 (Ansari, ¶1).

Regarding Claim 64, the references of Sharood and Ansari discloses all the elements with respect to claim 61. Further, Ansari discloses:

wherein the digital address is autonomously assigned, or wherein the digital address is assigned by another appliance using Dynamic Host Configuration Protocol (DHCP) DHCP; Ansari discloses endpoint devices in a wireless network (¶96) and that each client is uniquely identified with an IP address that has been dynamically assigned by a DHCP server (¶116).

It would have been obvious as of the effective filing date to one of ordinary skill in the art to enhance the system of an appliance monitoring device as disclosed by Sharood by adding services (such as assigning unique 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 (Ansari, ¶1).

14. **Claim 62** is rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over US Patent Application Publication No. 2001/0025349 to Sharood in view of US Patent Application Publication No. 2011/0298301 to Wong et al. (hereinafter Wong).

Regarding Claim 62, the reference Sharood discloses all the elements with respect to claim 61. Further, Wong discloses:

wherein the digital address is a Media Access Control (MAC) MAC layer address that is MAC-48, Extended Unique Identifier (EUI) EUI-48, or EUI-64 address type; Wong discloses (Figs. 17 and 18) the sensor information section that displays the sensor name, position, MAC address among other information (¶151).

It would have been obvious as of the effective filing date to one of ordinary skill in the art to enhance the system of an appliance monitoring device as disclosed by Sharood by 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 the IEEE 802.11 wireless networking standard (Wi-Fi) to a wireless network access point (Wong, ¶14).

Response to Arguments

Claim Rejections - 35 USC § 103

15. Applicant's arguments, filed on 6/28/2019, with respect to Claims 1 – 64 have been fully considered and they are persuasive. Hence, the rejection is withdrawn. However, upon further consideration and an updated search, the Examiner have introduced a new prior art reference, hence the Claims 1 – 64 stand rejected under 35 USC § 102 (b).

Conclusion

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

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

/H. A. K./
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.	
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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	A47J27/62	126/39BA
*	C	US-20080130520-A1	06-2008	Ebrom; Matthew P.	G06F9/54	370/254
*	D	US-20090046715-A1	02-2009	MCCOY; RICHARD A.	G06F9/54	370/389
*	E	US-20010025349-A1	09-2001	Sharood, John N.	G06Q30/0235	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	H04W28/08	370/237
*	I	US-20050125083-A1	06-2005	Kiko, Frederick J.	G05B15/02	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	H04L12/2827	307/116
*	M	US-20100298957-A1	11-2010	Sanchez Rocha; Jaime	G05B15/02	700/90

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	CPC Classification
	N					
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NON-PATENT DOCUMENTS

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

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

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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	H04L12/2818	726/12
*	B	US-20100211359-A1	08-2010	Mehta; Neelesh B.	H04Q9/00	702/188
	C					
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FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	CPC Classification
	N					
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	S					
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NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	
	V	
	W	
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*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
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CPC - Searched*		
Symbol	**Date**	**Examiner**
H04L67/12,B60K31/00,B60K31/18,B60Y2200/11,B60Y2200/12, B60Y2200/126,B60Y2200/13,B60Y2200/30,B60Y2200/40,B60Y2200/50 ,B60Y2200/90,G01C21/00,G06Q2240/00,G07C5/008,G08G1/00 (combined with text search)	09/21/2018	H.K.
H04L67/12,B60K31/00,B60K31/18,B60Y2200/11,B60Y2200/12, B60Y2200/126,B60Y2200/13,B60Y2200/30,B60Y2200/40,B60Y2200/50 ,B60Y2200/90,G01C21/00,G06Q2240/00,G07C5/008,G08G1/00 (combined with text search)	01/11/2019	H.K.
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H04L67/12,B60K31/00,B60K31/18,B60Y2200/11,B60Y2200/12, B60Y2200/126,B60Y2200/13,B60Y2200/30,B60Y2200/40,B60Y2200/50 ,B60Y2200/90,G01C21/00,G06Q2240/00,G07C5/008,G08G1/00 (combined with text search)	05/06/2019	H.K.
H04L67/12,B60K31/00,B60K31/18,B60Y2200/11,B60Y2200/12, B60Y2200/126,B60Y2200/13,B60Y2200/30,B60Y2200/40,B60Y2200/50 ,B60Y2200/90,G01C21/00,G06Q2240/00,G07C5/008,G08G1/00 (combined with text search)	10/12/2019	H.K.

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

US Classification - Searched*			
Class	**Subclass**	**Date**	**Examiner**
709	218 (combined with text search)	09/21/2018	H.K.
709	218 (combined with text search)	01/11/2019	H.K.
709	218 (combined with text search)	04/09/2019	H.K.
709	218 (combined with text search)	05/06/2019	H.K.
709	218 (combined with text search)	10/12/2019	H.K.

/HASSAN A KHAN/ Examiner, Art Unit 2456	

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

Search Notes		
Search Notes	**Date**	**Examiner**
Inventor search conducted (see EAST search history)	09/21/2018	H.K.
Google Patents search conducted	09/20/2018	H.K.
Assignee search conducted (see EAST search history)	09/21/2018	H.K.
EAST search history (see attached)	09/21/2018	H.K.
Inventor search conducted (see EAST search history)	01/11/2019	H.K.
Assignee search conducted (see EAST search history)	01/11/2019	H.K.
EAST search history (see attached)	01/11/2019	H.K.
Consulted with SPE Philip Chea on Restriction	04/08/2019	H.K.
Consulted with Technology Director Office on Restriction	12/18/2018	H.K.
Inventor search conducted (see EAST search history)	04/09/2019	H.K.
Assignee search conducted (see EAST search history)	04/09/2019	H.K.
EAST search history (see attached)	04/09/2019	H.K.
Inventor search conducted (see EAST search history)	05/06/2019	H.K.
Assignee search conducted (see EAST search history)	05/06/2019	H.K.
EAST search history (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.
EAST search history (see attached)	10/12/2019	H.K.

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

/HASSAN A KHAN/ Examiner, Art Unit 2456	

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✓	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								
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	42	÷	N	N	N	N	✓			

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CLAIM		DATE								
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	63	÷	N	N	N	N	✓			
	64	÷	N	N	N	N	✓			

EAST Search History

EAST Search History (Prior Art)

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L4	12	3 and actuat$4	US-PGPUB; USPAT	OR	ON	2019/10/12 21:45
L5	5	3 and chemical	US-PGPUB; USPAT	OR	ON	2019/10/12 21:57
L6	12	3 and (IP address)	US-PGPUB; USPAT	OR	ON	2019/10/12 22:04
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L14	14	10 and ((MAC or (media adj2 access adj2 control)) adj2 address)	US-PGPUB; USPAT	OR	ON	2019/10/12 22:21
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L17	15	10 and (((MAC or (media adj2 access adj2 control)) adj2 address) or (hardware adj2 address))	US-PGPUB; USPAT	OR	ON	2019/10/12 22:56
L18	14	17 and sensor	US-PGPUB; USPAT	OR	ON	2019/10/12 22:58
L19	1932	(sensor with MAC with address)	US-PGPUB; USPAT	OR	ON	2019/10/12 23:02
L20	512	19 and (fire or smoke)	US-PGPUB; USPAT	OR	ON	2019/10/12 23:02
L21	245	20 and actuat$4	US-PGPUB; USPAT	OR	ON	2019/10/12 23:02
L22	5773	709/218.ccls.	US-PGPUB; USPAT	OR	ON	2019/10/12 23:33
L23	21052	H04L67/12.cpc.	US-PGPUB;	OR	ON	2019/10/12

			USPAT			23:33
L24	104130	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	2019/10/12 23:33
L25	49	(maytal and benjamin).in.	US-PGPUB; USPAT	OR	ON	2019/10/12 23:33
L26	406	(binder and yehuda).in.	US-PGPUB; USPAT	OR	ON	2019/10/12 23:33
L27	66	(may and patents).aanm.	US-PGPUB; USPAT	OR	ON	2019/10/12 23:33
L28	41	(may and patents).as.	US-PGPUB; USPAT	OR	ON	2019/10/12 23:33
L29	449	L25 L26 L27 L28	US-PGPUB; USPAT	OR	ON	2019/10/12 23:33
L30	129450	L22 or L23 or L24 or L29	US-PGPUB; USPAT	OR	ON	2019/10/12 23:33
L31	5	L30 and (relay with solenoid with reed).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/10/12 23:33
S1	1	"13733634"	US-PGPUB; USPAT	ADJ	ON	2016/12/03 01:33
S2	7358	(actuator with sensor with network)	US-PGPUB; USPAT	ADJ	ON	2016/12/03 01:34
S3	161	(actuator with sensor with network with router)	US-PGPUB; USPAT	ADJ	ON	2016/12/03 01:34
S4	14	(actuator with sensor with network with router with (car or vehicle))	US-PGPUB; USPAT	ADJ	ON	2016/12/03 01:34
S5	1020	(actuator with sensor with network with (car or vehicle))	US-PGPUB; USPAT	ADJ	ON	2016/12/03 01:37
S6	535	S5 and (router or routing)	US-PGPUB; USPAT	ADJ	ON	2016/12/03 01:38
S7	147	S5 and (NAT or DHCP)	US-PGPUB; USPAT	ADJ	ON	2016/12/03 01:38
S8	54	S5 and (control adj2 logic)	US-PGPUB; USPAT	ADJ	ON	2016/12/03 01:39
S9	7358	(actuator with sensor with network)	US-PGPUB; USPAT	ADJ	ON	2016/12/03 01:48
S10	675	S9 and (piezoelectric$6 or (piezo$1electric$6))	US-PGPUB; USPAT	ADJ	ON	2016/12/03 01:49
S11	120	S10 and (network with (routing or router))	US-PGPUB; USPAT	ADJ	ON	2016/12/03 01:49
S12	58	S11 and (vehicle or car)	US-PGPUB; USPAT	ADJ	ON	2016/12/03 01:49
S13	21	(US-20130201316-$ or US-20100030421-$ or US-20120303216-$ or US-20140188343-$ or US-20140236384-$ or US-20070076593-$ or US-20100211258-$ or US-	US-PGPUB; USPAT	ADJ	ON	2017/02/13 22:08

		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-$).did.				
S14	21	S13 and actuator	US-PGPUB; USPAT	ADJ	ON	2017/02/13 22:08
S15	1	S13 and (actuator same router)	US-PGPUB; USPAT	ADJ	ON	2017/02/13 22:08
S16	200	(actuator same router same ((vehicle or car or automobile or transport) or (building)))	US-PGPUB; USPAT	ADJ	ON	2017/02/13 22:11
S17	119	(actuator same router same ((vehicle or car or automobile or transport) or (building))) same network	US-PGPUB; USPAT	ADJ	ON	2017/02/13 22:12
S18	110	(actuator same router same ((vehicle or car or automobile or transport) or (building))) same network same sensor	US-PGPUB; USPAT	ADJ	ON	2017/02/13 22:12
S19	76	(actuator same router same ((vehicle or car or automobile or transport) or (building))) same network same (sensor or control) same data	US-PGPUB; USPAT	ADJ	ON	2017/02/13 22:12
S20	68	(actuator same router same ((vehicle or car or automobile) or (building))) same network same (sensor or control) same data	US-PGPUB; USPAT	ADJ	ON	2017/02/13 22:13
S21	21	(actuator same router same ((vehicle or car or automobile) same (building))) same network same (sensor or control) same data	US-PGPUB; USPAT	ADJ	ON	2017/02/13 22:15
S22	21	actuator same router same (vehicle or car or automobile) same building same network same (sensor or control) same data	US-PGPUB; USPAT	ADJ	ON	2017/02/13 22:15
S23	47	S20 XOR S22	US-PGPUB; USPAT	ADJ	ON	2017/02/13 22:17
S24	1	(US-8195844-$).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-$	US-PGPUB; USPAT	ADJ	ON	2017/02/14 03:23

		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-$).did.				
S41	21	S40 and (vehicle or vehical or automobile or car)	US-PGPUB; USPAT	ADJ	ON	2017/02/14 03:29
S42	21	S40 and (vehicle or vehical or automobile or car) and actuator	US-PGPUB; USPAT	ADJ	ON	2017/02/14 03:29
S43	15	S40 and (vehicle or vehical or automobile or car) and actuator and sensor and network and cellular and wireless	US-PGPUB; USPAT	ADJ	ON	2017/02/14 03:30
S44	15	S40 and (coupled)	US-PGPUB; USPAT	ADJ	ON	2017/02/14 03:35
S45	1	S40 and (router)	US-PGPUB; USPAT	ADJ	ON	2017/02/14 03:36
S46	832	(vehicle or car) with router with (control or server) with network	US-PGPUB; USPAT	ADJ	ON	2017/02/14 03:37
S47	11	(vehicle or car) with router with (control or server) with network with actuator	US-PGPUB; USPAT	ADJ	ON	2017/02/14 03:37
S48	2	"20090198380"	US-PGPUB; USPAT	ADJ	ON	2017/02/14 03:42
S49	1	"20060217840"	US-PGPUB; USPAT	ADJ	ON	2017/02/14 03:42
S50	7	(US-20160062330-$ or US-20090198380-$ or US-20060217840-$ or US-20150295788-$ or US-20160344745-$ or US-20150046582-$ or US-20100030421-$).did.	US-PGPUB	ADJ	ON	2017/02/17 04:34
S51	4	S50 and (actuator with sensor)	US-PGPUB; USPAT	ADJ	ON	2017/02/17 04:34
S52	4	S50 and (actuator)	US-PGPUB; USPAT	ADJ	ON	2017/02/17 04:36
S53	3	"13404575"	US-PGPUB; USPAT	ADJ	ON	2017/02/17 04:38
S54	2	S50 and (sensor with router)	US-PGPUB; USPAT	ADJ	ON	2017/02/17 04:39
S55	27	(US-20130201316-$ or US-20100030421-$ or US-20120303216-$ or US-20140188343-$ or US-20140236384-$ or US-20070076593-$ or US-20100211258-$ or US-20080100428-$ or US-20060111825-$ or US-20100148940-$ or US-20100201516-$ or US-20110035491-$ or US-20150046582-$ or US-20160062330-$ or US-20060217840-$ or US-20090198380-$ or US-20150295788-$ or US-20160344745-$ or US-20120253480-$).did. or (US-8140658-$ or US-7844687-$ or US-7797367-$ or US-7020701-$ or US-6859831-$ or US-6832251-$ or US-	US-PGPUB; USPAT	ADJ	ON	2017/02/17 04:39

		6826607-$ or US-6735630-$).did.				
S56	3	S55 and (sensor with router)	US-PGPUB; USPAT	ADJ	ON	2017/02/17 04:39
S57	319	(actuator with sensor with router)	US-PGPUB; USPAT	ADJ	ON	2017/02/17 04:40
S58	178	(actuator NEAR9 sensor NEAr9 router)	US-PGPUB; USPAT	ADJ	ON	2017/02/17 04:40
S59	125	(actuator with sensor with router with (command or signal or transmi$6 or data))	US-PGPUB; USPAT	ADJ	ON	2017/02/17 04:41
S60	7	(US-20160062330-$ or US-20090198380-$ or US-20060217840-$ or US-20150295788-$ or US-20160344745-$ or US-20150046582-$ or US-20100030421-$).did.	US-PGPUB	ADJ	ON	2017/02/17 21:05
S61	2	S60 and (router with (building or vehicle or car))	US-PGPUB; USPAT	ADJ	ON	2017/02/17 21:06
S62	2	S60 and (router with (building or vehicle or car) with sensor)	US-PGPUB; USPAT	ADJ	ON	2017/02/17 21:06
S63	524	(router with (building or vehicle or car) with sensor)	US-PGPUB; USPAT	ADJ	ON	2017/02/17 21:06
S64	96	(router near9 (building or vehicle or car) near5 sensor)	US-PGPUB; USPAT	ADJ	ON	2017/02/17 21:07
S65	28	(router near9 (building or vehicle or car) near9 sensor near9 network)	US-PGPUB; USPAT	ADJ	ON	2017/02/17 21:07
S66	1	(US-20130201316-$).did.	US-PGPUB	ADJ	ON	2017/02/17 21:11
S67	28	(US-20130201316-$ or US-20100030421-$ or US-20120303216-$ or US-20140188343-$ or US-20140236384-$ or US-20070076593-$ or US-20100211258-$ or US-20080100428-$ or US-20060111825-$ or US-20100148940-$ or US-20100201516-$ or US-20110035491-$ or US-20150046582-$ or US-20160062330-$ or US-20060217840-$ or US-20090198380-$ or US-20150295788-$ or US-20160344745-$ or US-20120253480-$ or US-20070283005-$).did. or (US-8140658-$ or US-7844687-$ or US-7797367-$ or US-7020701-$ or US-6859831-$ or US-6832251-$ or US-6826607-$ or US-6735630-$).did.	US-PGPUB; USPAT	ADJ	ON	2017/02/20 05:11
S68	27	S67 and (control with (actuator or sensor))	US-PGPUB; USPAT	ADJ	ON	2017/02/20 05:11
S69	22	S67 and (control NEAR0 (actuator or sensor))	US-PGPUB; USPAT	ADJ	ON	2017/02/20 05:11
S70	26	S67 and (control NEAR9 (actuator or sensor))	US-PGPUB; USPAT	ADJ	ON	2017/02/20 05:11
S71	9	S67 and (command NEAR9 (actuator or sensor))	US-PGPUB; USPAT	ADJ	ON	2017/02/20 05:15
S72	2	(US-20160062330-$ or US-20070283005-$).did.	US-PGPUB	ADJ	ON	2017/02/20 06:05
S73	1	S72 and ((additional or extra or second or third) with sensor)	US-PGPUB	ADJ	ON	2017/02/20 06:29

S74	28	(US-20130201316-$ or US-20100030421-$ or US-20120303216-$ or US-20140188343-$ or US-20140236384-$ or US-20070076593-$ or US-20100211258-$ or US-20080100428-$ or US-20060111825-$ or US-20100148940-$ or US-20100201516-$ or US-20110035491-$ or US-20150046582-$ or US-20160062330-$ or US-20060217840-$ or US-20090198380-$ or US-20150295788-$ or US-20160344745-$ or US-20120253480-$ or US-20070283005-$).did. or (US-8140658-$ or US-7844687-$ or US-7797367-$ or US-7020701-$ or US-6859831-$ or US-6832251-$ or US-6826607-$ or US-6735630-$).did.	US-PGPUB; USPAT	ADJ	ON	2017/02/20 06:30
S75	12	S74 and ((additional or extra or second or third) with sensor)	US-PGPUB	ADJ	ON	2017/02/20 06:31
S76	2	S72 and ((more) with sensor)	US-PGPUB	ADJ	ON	2017/02/20 06:32
S77	5	S74 and piezoelectric	US-PGPUB	ADJ	ON	2017/02/20 06:43
S78	2	S72 and (IP or address or internet or protocol)	US-PGPUB	ADJ	ON	2017/02/20 06:56
S79	2	S74 and (DHCP and (IPv4 or IPv6))	US-PGPUB	ADJ	ON	2017/02/20 07:02
S80	146	(control$6 with (sensor or actuator) with network) and (DHCP and (IPv4 or IPv6))	US-PGPUB	ADJ	ON	2017/02/20 07:04
S81	69	(control$6 with (sensor or actuator) with network) and (DHCP with (IPv4 or IPv6))	US-PGPUB	ADJ	ON	2017/02/20 07:04
S82	1	(US-20130201316-$).did.	US-PGPUB	ADJ	ON	2017/02/20 07:12
S83	36	S81 and zigbee	US-PGPUB	ADJ	ON	2017/02/20 07:21
S84	9	S81 and zigbee and (temperature with sensor)	US-PGPUB	ADJ	ON	2017/02/20 07:22
S85	36	S81 and zigbee and (sensor)	US-PGPUB	ADJ	ON	2017/02/20 07:22
S86	15	S81 and zigbee and (temperature)	US-PGPUB	ADJ	ON	2017/02/20 07:22
S87	12	S81 and zigbee and (temperature) and (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-	US-PGPUB; USPAT	ADJ	ON	2017/02/21 02:35

		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.				
S92	15493	(router with power)	US-PGPUB; USPAT	ADJ	ON	2017/02/21 02:36
S93	2	S91 and (router with power)	US-PGPUB; USPAT	ADJ	ON	2017/02/21 02:36
S94	1606	(router with power with (case or box or inside or enclosure or casing))	US-PGPUB; USPAT	ADJ	ON	2017/02/21 02:36
S95	578	(router NEAR9 power NEAR9 (case or box or inside or enclosure or casing))	US-PGPUB; USPAT	ADJ	ON	2017/02/21 02:37
S96	587	(router NEAR9 power NEAR9 (housed or enclos$5 or case or box or inside or enclosure or casing))	US-PGPUB; USPAT	ADJ	ON	2017/02/21 02:37
S97	17	(router NEAR9 power NEAR9 (housed or enclos$5 or case or box or inside or enclosure or casing) NEAR9 (AC or DC))	US-PGPUB; USPAT	ADJ	ON	2017/02/21 02:37
S98	17	S91 and (light with sensor)	US-PGPUB; USPAT	ADJ	ON	2017/02/21 03:05
S99	0	S88 and (light with (invisible or visible or infrared, ultraviolet, xrays or "x-rays" or (x adj2 rays) or gamma))	US-PGPUB	ADJ	ON	2017/02/21 03:19
S100	5	S91 and (light with (invisible or visible or infrared, ultraviolet, xrays or "x-rays" or (x adj2 rays) or gamma))	US-PGPUB	ADJ	ON	2017/02/21 03:19
S101	5	S91 and (light NEAR9 (invisible or visible or infrared, ultraviolet, xrays or "x-rays" or (x adj2 rays) or gamma))	US-PGPUB	ADJ	ON	2017/02/21 03:20
S102	128	((actuator with light) NEAR9 (invisible or visible or infrared, ultraviolet, xrays or "x-rays" or (x adj2 rays) or gamma))	US-PGPUB	ADJ	ON	2017/02/21 03:22
S103	79	((actuator NEAR5 light) NEAR9 (invisible or visible or infrared, ultraviolet, xrays or "x-rays" or (x adj2 rays) or gamma))	US-PGPUB	ADJ	ON	2017/02/21 03:23
S104	6	(sensor with (actuator NEAR5 light) NEAR9 (invisible or visible or infrared, ultraviolet, xrays or "x-rays" or (x adj2 rays) or gamma))	US-PGPUB	ADJ	ON	2017/02/21 03:23
S105	1	(sensor with (actuator NEAR2 light) NEAR9 (invisible or visible or infrared, ultraviolet, xrays or "x-rays" or (x adj2 rays) or gamma))	US-PGPUB	ADJ	ON	2017/02/21 03:25

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

			USPAT			05:54
S120	13	S118 and splitter and frequency	US-PGPUB; USPAT	ADJ	ON	2017/02/21 05:54
S121	1	S118 and (splitter same frequency)	US-PGPUB; USPAT	ADJ	ON	2017/02/21 05:55
S122	234	(power with data with splitter with frequency)	US-PGPUB; USPAT	ADJ	ON	2017/02/21 05:56
S123	1	(US-20130201316-$).did.	US-PGPUB	ADJ	ON	2017/02/21 10:03
S124	462	(high adj2 pass adj2 filter) and (low adj2 pass adj2 filter) and (FDMA or (frequency near5 division near5 multiple near5 access))	US-PGPUB	ADJ	ON	2017/02/21 10:07
S125	261	(high adj2 pass adj2 filter) and (low adj2 pass adj2 filter) and (FDMA or (frequency near5 division near5 multiple near5 access)) and (power near5 (band or frequency))	US-PGPUB	ADJ	ON	2017/02/21 10:08
S126	302	(high adj2 pass adj2 filter) and (low adj2 pass adj2 filter) and (FDMA or (frequency near5 division near5 multiple near5 access)) and (power near5 (band or frequency or channel))	US-PGPUB	ADJ	ON	2017/02/21 10:08
S127	273	(high adj2 pass adj2 filter) and (low adj2 pass adj2 filter) and (FDMA or (frequency near5 division near5 multiple near5 access)) and (power near5 (band or frequency or channel)) and ((data or communication) near5 (channel or band or frequency))	US-PGPUB	ADJ	ON	2017/02/21 10:09
S128	112	(high adj2 pass adj2 filter) and (low adj2 pass adj2 filter) and (FDMA or (frequency near5 division near5 multiple near5 access)) and (power near5 (band or frequency or channel)) and ((data or communication) near5 (channel or band or frequency)) and transformer and capacitor	US-PGPUB	ADJ	ON	2017/02/21 10:10
S129	88	(high adj2 pass adj2 filter) and (low adj2 pass adj2 filter) and (FDMA or (frequency near5 division near5 multiple near5 access)) and (power near5 (band or frequency or channel)) and ((data or communication) near5 (channel or band or frequency)) and transformer and capacitor and sensor	US-PGPUB	ADJ	ON	2017/02/21 10:10
S130	41	(high adj2 pass adj2 filter) and (low adj2 pass adj2 filter) and (FDMA or (frequency near5 division near5 multiple near5 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	US-PGPUB	ADJ	ON	2017/02/21 10:15

		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))				
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)	US-PGPUB	ADJ	ON	2017/02/21 11:01

		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))				
S139	17	(high adj2 pass adj2 filter) and (low adj2 pass adj2 filter) and (FDMA or (frequency near5 division near5 multiple near5 access)) and (power near5 (band or frequenc$4 or channel) near5 (different or distinct or seperate)) and ((data or communication) near5 (channel or band or frequency)) and (split or splitter or divide) and (transformer with capacitor)	US-PGPUB	ADJ	ON	2017/02/21 11:01
S140	1	(US-20130308581-$).did.	US-PGPUB	ADJ	ON	2017/02/21 11:09
S141	1	(US-20110118888-$).did.	US-PGPUB	ADJ	ON	2017/02/21 11:28
S142	2	(US-20160062330-$ or US-20070283005-$).did.	US-PGPUB	ADJ	ON	2017/02/21 11:49
S143	0	S142 and appliance	US-PGPUB; USPAT	ADJ	ON	2017/02/21 11:49
S144	1	(US-20130201316-$).did.	US-PGPUB	ADJ	ON	2017/02/21 12:06
S145	205	(yehuda and binder).in.	US-PGPUB	ADJ	ON	2017/02/21 12:24
S146	26	(benjamin and maytal).in.	US-PGPUB	ADJ	ON	2017/02/21 12:25
S147	26	(may and patents).as.	US-PGPUB	ADJ	ON	2017/02/21 12:25
S148	25	(may and patents).aanm.	US-PGPUB	ADJ	ON	2017/02/21 12:25
S149	8	S147 and S148	US-PGPUB	ADJ	ON	2017/02/21 12:25
S150	1	S145 and S146	US-PGPUB	ADJ	ON	2017/02/21 12:25
S151	43	S147 or S148	US-PGPUB	ADJ	ON	2017/02/21 12:26
S152	230	S145 or S146	US-PGPUB	ADJ	ON	2017/02/21 12:26
S153	230	S151 or S152	US-PGPUB	ADJ	ON	2017/02/21 12:26
S154	17	S153 and piezoelectric.clm.	US-PGPUB	ADJ	ON	2017/02/21 12:26
S155	1	S153 and (vehicle and router and actuator).clm.	US-PGPUB	ADJ	ON	2017/02/21 12:27
S156	7130	H04L67/12.cpc.	US-PGPUB	ADJ	ON	2017/02/21 12:27
S157	993	348/77.ccls.	US-PGPUB	ADJ	ON	2017/02/21 12:27
S158	374	700/28.ccls.	US-PGPUB	ADJ	ON	2017/02/21 12:27

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

		or US-20130091254-$ or US-20140286348-$ or US-20130091279-$ or US-20030105389-$ or US-20130139440-$).did. or (US-20130308581-$ or US-20110118888-$).did. or (US-8140658-$ or US-7844687-$ or US-7797367-$ or US-7020701-$ or US-6859831-$ or US-6832251-$ or US-6826607-$ or US-6735630-$).did.				
S170	7	S169 and (sensor same network same router)	US-PGPUB; USPAT	ADJ	ON	2017/07/05 11:20
S171	3	S170 and actuator	US-PGPUB; USPAT	ADJ	ON	2017/07/05 11:20
S172	24	S169 and actuator	US-PGPUB; USPAT	ADJ	ON	2017/07/05 11:21
S173	2	(US-20160062330-$ or US-20070283005-$).did.	US-PGPUB	OR	OFF	2017/07/19 19:14
S174	1	(US-20130201316-$).did.	US-PGPUB	OR	OFF	2017/07/20 00:24
S175	1	"20120079149"	US-PGPUB	OR	OFF	2017/07/20 00:29
S176	1	"20120079149"	US-PGPUB	OR	OFF	2017/07/20 06:37
S177	1	S176 and ((sensor or actuator) with router)	US-PGPUB	OR	OFF	2017/07/20 06:37
S178	1	S176 and (router)	US-PGPUB	OR	OFF	2017/07/20 06:37
S179	0	S176 and (commands with router)	US-PGPUB	OR	OFF	2017/07/20 06:41
S180	37	(US-20130201316-$ or US-20100030421-$ or US-20120303216-$ or US-20140188343-$ or US-20140236384-$ or US-20070076593-$ or US-20100211258-$ or US-20080100428-$ or US-20060111825-$ or US-20100148940-$ or US-20100201516-$ or US-20110035491-$ or US-20150046582-$ or US-20160062330-$ or US-20060217840-$ or US-20090198380-$ or US-20150295788-$ or US-20160344745-$ or US-20120253480-$ or US-20070283005-$ or US-20100071053-$ or US-20130091254-$ or US-20140286348-$ or US-20130091279-$ or US-20030105389-$ or US-20130139440-$).did. or (US-20130308581-$ or US-20110118888-$ or US-20120079149-$).did. or (US-8140658-$ or US-7844687-$ or US-7797367-$ or US-7020701-$ or US-6859831-$ or US-6832251-$ or US-6826607-$ or US-6735630-$).did.	US-PGPUB; USPAT	OR	OFF	2017/07/20 06:41
S181	1	S180 and (commands with router)	US-PGPUB	OR	OFF	2017/07/20 06:41
S182	2	(actuator with commands with router)	US-PGPUB	OR	OFF	2017/07/20 06:42
S183	25	(sensor with commands with router)	US-PGPUB	OR	OFF	2017/07/20

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

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

S243	0	S236 and (routing with phone)	US-PGPUB	OR	OFF	2017/07/20 19:08
S244	2	S236 and (router with phone)	US-PGPUB	OR	OFF	2017/07/20 19:08
S245	1	(US-20130201316-$).did.	US-PGPUB	OR	OFF	2017/07/20 19:22
S246	1	S245 and actuator	US-PGPUB	OR	OFF	2017/07/20 19:22
S247	1063	ISM near2 radio near2 band	US-PGPUB	OR	OFF	2017/07/20 19:44
S248	496	industrial near3 scientific near3 radio near3 band	US-PGPUB	OR	OFF	2017/07/20 19:44
S249	1	(industrial near3 scientific near3 radio near3 band) near5 WAN	US-PGPUB	OR	OFF	2017/07/20 19:45
S250	3	(industrial near3 scientific near3 radio near3 band) with WAN	US-PGPUB	OR	OFF	2017/07/20 19:46
S251	0	(industrial near3 scientific near3 radio near3 band) near5 internet	US-PGPUB	OR	OFF	2017/07/20 19:46
S252	14	(industrial near3 scientific near3 radio near3 band) near5 network	US-PGPUB	OR	OFF	2017/07/20 19:46
S253	1	S236 and (WAN with antenna)	US-PGPUB	OR	OFF	2017/07/20 19:56
S254	1	S236 and (WAN with modem)	US-PGPUB	OR	OFF	2017/07/20 19:59
S255	1	(US-20130201316-$).did.	US-PGPUB	OR	OFF	2017/07/20 20:19
S256	157	(BINDER and Yehuda).in.	USPAT	OR	OFF	2017/07/20 20:26
S257	10	(MAYTAL and Benjamin).in.	USPAT	OR	OFF	2017/07/20 20:26
S258	4181	H04L67/12.cpc.	USPAT	OR	OFF	2017/07/20 20:27
S259	41	(B60Y2200/30 G06Q2240/00).cpc.	USPAT	OR	OFF	2017/07/20 20:29
S260	41	(B60Y2200/30 or G06Q2240/00).cpc.	USPAT	OR	OFF	2017/07/20 20:29
S261	15	(B60Y2200/30).cpc.	USPAT	OR	OFF	2017/07/20 20:29
S262	26	(G06Q2240/00).cpc.	USPAT	OR	OFF	2017/07/20 20:29
S263	5119	(G01C21/00 or B60Y2200/90 or B60Y2200/50 or B60Y2200/40 or G08G1/00 or B60Y2200/13 or B60Y2200/126 or B60Y2200/12 or B60Y2200/11 or B60K31/18 or B60K31/00 or G07C5/008).cpc.	USPAT	OR	OFF	2017/07/20 20:31
S264	10730	(348/77 or 348/143 or 370/276 or 700/22 or 700/28 or 701/2 or 701/31.4 or 709/218).ccls.	USPAT	OR	OFF	2017/07/20 20:33
S265	11	(may and patents).as.	USPAT	OR	OFF	2017/07/20 20:33
S266	6	(may and patents).aanm.	USPAT	OR	OFF	2017/07/20 20:34
S267	0	"15657163"	US-PGPUB; USPAT	ADJ	ON	2017/09/18 11:52

S268	11	(US-20160062330-$ or US-20090198380-$ or US-20160344745-$ or US-20150046582-$ or US-20070283005-$ or US-20130308581-$ or US-20100071053-$ or US-20030105389-$ or US-20130091279-$ or US-20090224906-$ or US-20120079149-$).did.	US-PGPUB	OR	ON	2017/09/18 12:22
S269	7	S268 and voice	US-PGPUB; USPAT	OR	ON	2017/09/18 12:22
S270	8	S268 and (audio or human)	US-PGPUB; USPAT	OR	ON	2017/09/18 12:23
S271	42	(US-20130201316-$ or US-20100030421-$ or US-20120303216-$ or US-20140188343-$ or US-20140236384-$ or US-20070076593-$ or US-20100211258-$ or US-20080100428-$ or US-20060111825-$ or US-20100148940-$ or US-20100201516-$ or US-20110035491-$ or US-20150046582-$ or US-20160062330-$ or US-20060217840-$ or US-20090198380-$ or US-20150295788-$ or US-20160344745-$ or US-20120253480-$ or US-20070283005-$ or US-20100071053-$ or US-20130091254-$ or US-20140286348-$ or US-20130091279-$ or US-20030105389-$ or US-20130139440-$).did. or (US-20130308581-$ or US-20110118888-$ or US-20120079149-$ or US-20080031139-$ or US-20080068156-$ or US-20080307075-$ or US-20170111158-$ or US-20090224906-$).did. or (US-8140658-$ or US-7844687-$ or US-7797367-$ or US-7020701-$ or US-6859831-$ or US-6832251-$ or US-6826607-$ or US-6735630-$).did.	US-PGPUB; USPAT	OR	ON	2017/09/18 12:24
S272	25	S271 and voice	US-PGPUB; USPAT	OR	ON	2017/09/18 12:25
S273	2	S271 and ((mic or microphone) with voice)	US-PGPUB; USPAT	OR	ON	2017/09/18 12:27
S274	31	S271 and (person or human)	US-PGPUB; USPAT	OR	ON	2017/09/18 12:38
S275	17	(control$4 or operat$4) with (actuator with (human) with voice)	US-PGPUB; USPAT	OR	ON	2017/09/18 12:43
S276	7612	(control$4 or operat$4) with (actuator with voice)	US-PGPUB; USPAT	OR	ON	2017/09/18 12:55
S277	5	(control$4 or operat$4) NEAR9 (actuator with voice) NEAR9 network	US-PGPUB; USPAT	OR	ON	2017/09/18 12:55
S278	10	2009/0089065	US-PGPUB; USPAT	OR	ON	2017/09/19 13:03
S279	2	"20090089065"	US-PGPUB; USPAT	OR	ON	2017/09/19 13:03
S280	13	(US-20160062330-$ or US-20090198380-$ or US-20160344745-$ or US-20150046582-$ or US-	US-PGPUB	OR	ON	2017/09/19 13:12

		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.				
S281	6	S280 and building	US-PGPUB; USPAT	OR	ON	2017/09/19 13:12
S282	0	"15657163"	US-PGPUB; USPAT	OR	ON	2017/09/19 13:13
S286	2	"13733634"	US-PGPUB; USPAT	ADJ	ON	2017/09/19 13:13
S287	0	S286 and (client adj2 device)	US-PGPUB; USPAT	ADJ	ON	2017/09/19 13:13
S288	5	S280 and ((speech or voice) with (command$4 or control$4))	US-PGPUB; USPAT	OR	ON	2017/09/19 13:17
S289	13	(US-20160062330-$ or US-20090198380-$ or US-20160344745-$ or US-20150046582-$ or US-20070283005-$ or US-20130308581-$ or US-20100071053-$ or US-20030105389-$ or US-20130091279-$ or US-20090224906-$ or US-20120079149-$ or US-20080307075-$ or US-20090089065-$).did.	US-PGPUB	OR	ON	2017/09/27 04:43
S290	7	S289 and (mic or microphone)	US-PGPUB; USPAT	OR	ON	2017/09/27 04:43
S291	13	(US-20160062330-$ or US-20090198380-$ or US-20160344745-$ or US-20150046582-$ or US-20070283005-$ or US-20130308581-$ or US-20100071053-$ or US-20030105389-$ or US-20130091279-$ or US-20090224906-$ or US-20120079149-$ or US-20080307075-$ or US-20090089065-$).did.	US-PGPUB	OR	ON	2017/09/28 01:25
S292	7	S291 and (mic or microphone or micro$1phone)	US-PGPUB; USPAT	OR	ON	2017/09/28 01:25
S293	43	(US-20130201316-$ or US-20100030421-$ or US-20120303216-$ or US-20140188343-$ or US-20140236384-$ or US-20070076593-$ or US-20100211258-$ or US-20080100428-$ or US-20060111825-$ or US-20100148940-$ or US-20100201516-$ or US-20110035491-$ or US-20150046582-$ or US-20160062330-$ or US-20060217840-$ or US-20090198380-$ or US-20150295788-$ or US-20160344745-$ or US-20120253480-$ or US-20070283005-$ or US-20100071053-$ or US-20130091254-$ or US-20140286348-$ or US-20130091279-$ or US-20030105389-$ or US-20130139440-$).did. or (US-20130308581-$ or US-20110118888-$ or US-20120079149-$ or US-20080031139-$ or US-20080068156-$ or US-20080307075-$ or US-	US-PGPUB; USPAT	OR	ON	2017/09/28 08:46

		20170111158-$ or US-20090224906-$ or US-20090089065-$).did. or (US-8140658-$ or US-7844687-$ or US-7797367-$ or US-7020701-$ or US-6859831-$ or US-6832251-$ or US-6826607-$ or US-6735630-$).did.				
S294	3281126	S293 and ("same" NEAR4 device) or inside	US-PGPUB; USPAT	OR	ON	2017/09/28 08:46
S295	3281126	S293 and ("same" NEAR4 device) or inside	US-PGPUB; USPAT	OR	ON	2017/09/28 08:46
S296	28	S293 and (("same" NEAR4 device) or inside)	US-PGPUB; USPAT	OR	ON	2017/09/28 08:47
S297	13	(US-20160062330-$ or US-20090198380-$ or US-20160344745-$ or US-20150046582-$ or US-20070283005-$ or US-20130308581-$ or US-20100071053-$ or US-20030105389-$ or US-20130091279-$ or US-20090224906-$ or US-20120079149-$ or US-20080307075-$ or US-20090089065-$).did.	US-PGPUB	OR	ON	2017/09/28 08:51
S298	5	S297 and actuator	US-PGPUB; USPAT	OR	ON	2017/09/28 08:51
S299	7	S297 and algorithm	US-PGPUB; USPAT	OR	ON	2017/09/28 09:06
S300	13	S297 and sensor	US-PGPUB; USPAT	OR	ON	2017/09/28 09:28
S301	3	S297 and (sensor with light)	US-PGPUB; USPAT	OR	ON	2017/09/28 09:39
S302	3	(US-20070283005-$ or US-20090089065-$ or US-20150046582-$).did.	US-PGPUB	OR	ON	2017/09/29 04:46
S303	1	S302 and (actuator with physical)	US-PGPUB; USPAT	OR	ON	2017/09/29 04:47
S304	2	S302 and (actuator)	US-PGPUB; USPAT	OR	ON	2017/09/29 04:47
S305	13	(US-20160062330-$ or US-20090198380-$ or US-20160344745-$ or US-20150046582-$ or US-20070283005-$ or US-20130308581-$ or US-20100071053-$ or US-20030105389-$ or US-20130091279-$ or US-20090224906-$ or US-20120079149-$ or US-20080307075-$ or US-20090089065-$).did.	US-PGPUB	OR	ON	2017/09/29 04:53
S306	7	S305 and (mic or microphones)	US-PGPUB; USPAT	OR	ON	2017/09/29 04:53
S307	10	S305 and (address)	US-PGPUB; USPAT	OR	ON	2017/09/29 05:22
S308	6	S305 and (zigbee)	US-PGPUB; USPAT	OR	ON	2017/09/29 05:30
S309	5	S305 and ("802.11")	US-PGPUB; USPAT	OR	ON	2017/09/29 05:33
S310	4	S305 and (ISM)	US-PGPUB; USPAT	OR	ON	2017/09/29 05:45
S311	2	S305 and (CDMA)	US-PGPUB; USPAT	OR	ON	2017/09/29 05:48

S312	3	S305 and (UMTS or GSM)	US-PGPUB; USPAT	OR	ON	2017/09/29 05:49
S313	8	S305 and cellular	US-PGPUB; USPAT	OR	ON	2017/09/29 05:49
S314	6	S305 and (HSPA or LTE or MBWA or "802.2" or GSM or WiMax)	US-PGPUB; USPAT	OR	ON	2017/09/29 05:54
S315	1	S305 and (applicance or freezer or refrigerator or food or beverage or coffee or tea or cooker or oven)	US-PGPUB; USPAT	OR	ON	2017/09/29 06:23
S316	43	(US-20130201316-$ or US-20100030421-$ or US-20120303216-$ or US-20140188343-$ or US-20140236384-$ or US-20070076593-$ or US-20100211258-$ or US-20080100428-$ or US-20060111825-$ or US-20100148940-$ or US-20100201516-$ or US-20110035491-$ or US-20150046582-$ or US-20160062330-$ or US-20060217840-$ or US-20090198380-$ or US-20150295788-$ or US-20160344745-$ or US-20120253480-$ or US-20070283005-$ or US-20100071053-$ or US-20130091254-$ or US-20140286348-$ or US-20130091279-$ or US-20030105389-$ or US-20130139440-$).did. or (US-20130308581-$ or US-20110118888-$ or US-20120079149-$ or US-20080031139-$ or US-20080068156-$ or US-20080307075-$ or US-20170111158-$ or US-20090224906-$ or US-20090089065-$).did. or (US-8140658-$ or US-7844687-$ or US-7797367-$ or US-7020701-$ or US-6859831-$ or US-6832251-$ or US-6826607-$ or US-6735630-$).did.	US-PGPUB; USPAT	OR	ON	2017/09/29 06:26
S317	14	S316 and (applicance or freezer or refrigerator or food or beverage or coffee or tea or cooker or oven)	US-PGPUB; USPAT	OR	ON	2017/09/29 06:26
S318	1015	network with sensor with (applicance or freezer or refrigerator or food or beverage or coffee or tea or cooker or oven)	US-PGPUB; USPAT	OR	ON	2017/09/29 06:28
S319	22	S316 and (appliance or freezer or refrigerator or food or beverage or coffee or tea or cooker or oven)	US-PGPUB; USPAT	OR	ON	2017/09/29 06:28
S320	21	S316 and (appliance or kitchen)	US-PGPUB; USPAT	OR	ON	2017/09/29 06:29
S321	3	S316 and (kitchen)	US-PGPUB; USPAT	OR	ON	2017/09/29 06:29
S322	12	(control$4) with network with kitchen with appliance with (speech or voice)	US-PGPUB; USPAT	OR	ON	2017/09/29 06:33
S323	1	(US-20170272316-$).did.	US-PGPUB	OR	ON	2017/09/29 06:36
S324	12	(US-20160062330-$ or US-20090198380-$ or US-20150046582-$ or US-20070283005-$ or US-20130308581-$ or US-20100071053-$ or US-20030105389-$ or US-	US-PGPUB	OR	ON	2017/09/29 08:34

		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	5777	709/218.ccls.	US-PGPUB; USPAT	OR	ON	2017/09/29 09:03
S333	12682	H04L67/12.cpc.	US-PGPUB; USPAT	OR	ON	2017/09/29 09:03
S334	25214	B60K 31/00.cpc.	US-PGPUB; USPAT	OR	ON	2017/09/29 09:04
S335	25214	B60K 31/18.cpc.	US-PGPUB; USPAT	OR	ON	2017/09/29 09:04
S336	288	B60Y2200/11.cpc.	US-PGPUB; USPAT	OR	ON	2017/09/29 09:04
S337	862	B60Y2200/12.cpc.	US-PGPUB; USPAT	OR	ON	2017/09/29 09:04
S338	194	B60Y2200/126.cpc.	US-PGPUB; USPAT	OR	ON	2017/09/29 09:04
S339	313	B60Y2200/13.cpc.	US-PGPUB; USPAT	OR	ON	2017/09/29 09:05
S340	35	B60Y2200/30.cpc.	US-PGPUB; USPAT	OR	ON	2017/09/29 09:05
S341	110	B60Y2200/40.cpc.	US-PGPUB; USPAT	OR	ON	2017/09/29 09:05
S342	13	B60Y2200/50.cpc.	US-PGPUB; USPAT	OR	ON	2017/09/29 09:05
S343	91	B60Y2200/90.cpc.	US-PGPUB; USPAT	OR	ON	2017/09/29 09:05
S344	36907	G01C 21/00.cpc.	US-PGPUB; USPAT	OR	ON	2017/09/29 09:05
S345	155	G06Q2240/00.cpc.	US-PGPUB; USPAT	OR	ON	2017/09/29 09:05
S346	9132	G07C 5/008.cpc.	US-PGPUB; USPAT	OR	ON	2017/09/29 09:05
S348	15985	G08G 1/00.cpc.	US-PGPUB; USPAT	OR	ON	2017/09/29 09:05
S349	40	(may and patents).as.	US-PGPUB; USPAT	OR	ON	2017/09/29 09:07

S350	42	(may and patents).aanm.	US-PGPUB; USPAT	OR	ON	2017/09/29 09:07
S351	381	(binder and yehuda).in.	US-PGPUB; USPAT	OR	ON	2017/09/29 09:07
S352	39	(maytal and benjamin).in.	US-PGPUB; USPAT	OR	ON	2017/09/29 09:07
S353	13516	H04L67/12.cpc.	US-PGPUB; USPAT	OR	ON	2018/01/19 19:43
S354	5776	709/218.ccls..	US-PGPUB; USPAT	OR	ON	2018/01/19 19:43
S355	41	(maytal and benjamin).in.	US-PGPUB; USPAT	OR	ON	2018/01/19 19:43
S356	387	(binder and yehuda).in.	US-PGPUB; USPAT	OR	ON	2018/01/19 19:43
S357	48	(may and patents).aanm.	US-PGPUB; USPAT	OR	ON	2018/01/19 19:43
S358	44	(may and patents).as.	US-PGPUB; USPAT	OR	ON	2018/01/19 19:43
S359	0	(fire and eye).aanm.	US-PGPUB; USPAT	ADJ	ON	2018/01/19 19:44
S360	140	(fireeye).as.	US-PGPUB; USPAT	ADJ	ON	2018/01/19 19:44
S361	113	(fireeye).aanm.	US-PGPUB; USPAT	ADJ	ON	2018/01/19 19:44
S362	1	(US-20130201316-$).did.	US-PGPUB	ADJ	ON	2018/01/19 19:44
S363	674	(home with network) same sensor same gateway same network	US-PGPUB	ADJ	ON	2018/01/19 19:44
S364	293	(home with network) with sensor with gateway	US-PGPUB	ADJ	ON	2018/01/19 19:44
S365	5	(home with network) with sensor with gateway with command	US-PGPUB	ADJ	ON	2018/01/19 19:44
S366	22	(US-20130201316-$ or US-20100030421-$ or US-20120303216-$ or US-20140188343-$ or US-20140236384-$ or US-20070076593-$ or US-20100211258-$ or US-20080100428-$ or US-20060111825-$ or US-20100148940-$ or US-20100201516-$ or US-20110035491-$ or US-20150046582-$ or US-20160062330-$).did. or (US-8140658-$ or US-7844687-$ or US-7797367-$ or US-7020701-$ or US-6859831-$ or US-6832251-$ or US-6826607-$ or US-6735630-$).did.	US-PGPUB; USPAT	ADJ	ON	2018/01/19 19:44
S367	21	S366 and (vehicle or vehical or automobile or car)	US-PGPUB; USPAT	ADJ	ON	2018/01/19 19:44
S368	21	S366 and (vehicle or vehical or automobile or car) and actuator	US-PGPUB; USPAT	ADJ	ON	2018/01/19 19:44
S369	15	S366 and (vehicle or vehical or automobile or car) and actuator and sensor and network and cellular and wireless	US-PGPUB; USPAT	ADJ	ON	2018/01/19 19:44
S370	15	S366 and (coupled)	US-PGPUB; USPAT	ADJ	ON	2018/01/19 19:44

S371	1	S366 and (router)	US-PGPUB; USPAT	ADJ	ON	2018/01/19 19:44
S372	1030	(vehicle or car) with router with (control or server) with network	US-PGPUB; USPAT	ADJ	ON	2018/01/19 19:44
S373	18	(vehicle or car) with router with (control or server) with network with actuator	US-PGPUB; USPAT	ADJ	ON	2018/01/19 19:44
S374	2	"20090198380"	US-PGPUB; USPAT	ADJ	ON	2018/01/19 19:44
S375	1865	S359 S360 S361 S362 S363 S364 S365 S366 S367 S368 S369 S370 S371 S372 S373 S374	US-PGPUB; USPAT	OR	ON	2018/01/19 19:44
S376	13516	H04L67/12.cpc.	US-PGPUB; USPAT	OR	ON	2018/01/19 19:45
S377	27138	B60K 31/00.cpc.	US-PGPUB; USPAT	OR	ON	2018/01/19 19:45
S378	27138	B60K 31/18.cpc.	US-PGPUB; USPAT	OR	ON	2018/01/19 19:45
S379	293	B60Y2200/11.cpc.	US-PGPUB; USPAT	OR	ON	2018/01/19 19:45
S380	889	B60Y2200/12.cpc.	US-PGPUB; USPAT	OR	ON	2018/01/19 19:45
S381	202	B60Y2200/126.cpc.	US-PGPUB; USPAT	OR	ON	2018/01/19 19:45
S382	329	B60Y2200/13.cpc.	US-PGPUB; USPAT	OR	ON	2018/01/19 19:45
S383	37	B60Y2200/30.cpc.	US-PGPUB; USPAT	OR	ON	2018/01/19 19:45
S384	113	B60Y2200/40.cpc.	US-PGPUB; USPAT	OR	ON	2018/01/19 19:45
S385	17	B60Y2200/50.cpc.	US-PGPUB; USPAT	OR	ON	2018/01/19 19:45
S386	94	B60Y2200/90.cpc.	US-PGPUB; USPAT	OR	ON	2018/01/19 19:45
S387	38949	G01C 21/00.cpc.	US-PGPUB; USPAT	OR	ON	2018/01/19 19:45
S388	183	G06Q2240/00.cpc.	US-PGPUB; USPAT	OR	ON	2018/01/19 19:45
S389	10308	G07C 5/008.cpc.	US-PGPUB; USPAT	OR	ON	2018/01/19 19:45
S390	44418	G08G 1/00	US-PGPUB; USPAT	OR	ON	2018/01/19 19:45
S391	17401	G08G 1/00.cpc.	US-PGPUB; USPAT	OR	ON	2018/01/19 19:45
S392	127924	S376 S377 S378 S379 S380 S381 S382 S383 S384 S385 S386 S387 S388 S389 S390 S391	US-PGPUB; USPAT	OR	ON	2018/01/19 19:45
S393	2	"15657163"	US-PGPUB; USPAT	ADJ	ON	2018/06/15 17:22
S394	1	(US-20170331899-$).did.	US-PGPUB	OR	OFF	2018/06/15 17:22
S395	1	(US-20170331899-$).did.	US-PGPUB	OR	OFF	2018/06/17 15:00
S396	1	S395 and (voice with algorithm)	US-PGPUB	OR	OFF	2018/06/17

						15:00
S397	1	(US-20170331899-$).did.	US-PGPUB	OR	OFF	2018/06/17 16:04
S398	1	S397 and (sensor with convection)	US-PGPUB	OR	OFF	2018/06/17 16:04
S399	12	(US-20160062330-$ or US-20090198380-$ or US-20150046582-$ or US-20070283005-$ or US-20130308581-$ or US-20100071053-$ or US-20030105389-$ or US-20130091279-$ or US-20090224906-$ or US-20080307075-$ or US-20090089065-$ or US-20170272316-$).did.	US-PGPUB	OR	OFF	2018/06/18 06:55
S400	0	S399 and (voice or audio)	USPAT	OR	OFF	2018/06/18 06:55
S401	0	S399 and (voice or audio)	USPAT	OR	ON	2018/06/18 06:55
S402	0	S399 and (voice or audio)	USPAT	OR	OFF	2018/06/18 06:55
S403	0	S399 and audio	USPAT	OR	OFF	2018/06/18 06:56
S404	0	S399 and (voice or audio)	USPAT	OR	OFF	2018/06/18 06:56
S405	9	S399 and (voice or audio)	US-PGPUB; USPAT	OR	OFF	2018/06/18 06:56
S406	5	S399 and ((voice or audio or speech) with (command or control))	US-PGPUB; USPAT	OR	OFF	2018/06/18 06:58
S407	6	S399 and (mic or microphone)	US-PGPUB; USPAT	OR	OFF	2018/06/18 07:02
S408	42	(US-20130201316-$ or US-20100030421-$ or US-20120303216-$ or US-20140188343-$ or US-20140236384-$ or US-20070076593-$ or US-20100211258-$ or US-20080100428-$ or US-20060111825-$ or US-20100148940-$ or US-20100201516-$ or US-20110035491-$ or US-20150046582-$ or US-20160062330-$ or US-20060217840-$ or US-20090198380-$ or US-20150295788-$ or US-20120253480-$ or US-20070283005-$ or US-20100071053-$ or US-20130091254-$ or US-20140286348-$ or US-20130091279-$ or US-20030105389-$ or US-20130139440-$ or US-20130308581-$).did. or (US-20110118888-$ or US-20080031139-$ or US-20080068156-$ or US-20080307075-$ or US-20170111158-$ or US-20090224906-$ or US-20090089065-$ or US-20170272316-$).did. or (US-8140658-$ or US-7844687-$ or US-7797367-$ or US-7020701-$ or US-6859831-$ or US-6832251-$ or US-6826607-$ or US-6735630-$).did.	US-PGPUB; USPAT	OR	OFF	2018/06/18 07:16
S409	18	S408 and (mic or microphone)	US-PGPUB;	OR	OFF	2018/06/18

			USPAT			07:16
S410	7	S408 and ((voice or audio or speech) with (command or control))	US-PGPUB; USPAT	OR	OFF	2018/06/18 07:16
S411	5	S408 and ((voice or audio or speech) NEAR9 (command or control))	US-PGPUB; USPAT	OR	OFF	2018/06/18 07:17
S412	0	S408 and ((speech with control with process) same (external with server))	US-PGPUB; USPAT	OR	OFF	2018/06/18 07:20
S413	1	S408 and ((speech with control with process) same (external))	US-PGPUB; USPAT	OR	OFF	2018/06/18 07:21
S414	14	S408 and ((control with process))	US-PGPUB; USPAT	OR	OFF	2018/06/18 07:21
S415	7	S408 and (((speech or voice or audio) with control))	US-PGPUB; USPAT	OR	OFF	2018/06/18 07:22
S416	7	S415 and wireless	US-PGPUB; USPAT	OR	OFF	2018/06/18 07:28
S417	11	S399 and (wireless)	US-PGPUB; USPAT	OR	OFF	2018/06/18 07:28
S418	2	"20050273505"	US-PGPUB; USPAT	OR	OFF	2018/06/18 09:53
S419	2	"20060212194"	US-PGPUB; USPAT	OR	OFF	2018/06/18 09:53
S420	8	("20050273505" | "20060212194" | "20070096565" | "20070176740" | "20080129475" | "20080136670" | "20100207754" | "20130139440").PN.	US-PGPUB; USPAT	OR	OFF	2018/06/18 09:55
S421	0	S420 and appliance	USPAT	OR	OFF	2018/06/18 09:55
S422	3	("20080307075" | "20090089065" | "20170272316").PN.	US-PGPUB; USPAT	OR	OFF	2018/06/18 09:55
S423	0	S422 and appliance	USPAT	OR	OFF	2018/06/18 09:55
S424	0	S420 and appliance	US-PGPUB; USPAT	OR	ON	2018/06/18 09:56
S425	1	S422 and appliance	US-PGPUB; USPAT	OR	ON	2018/06/18 09:56
S426	21	"8447843"	US-PGPUB; USPAT	OR	ON	2018/06/18 09:58
S427	1	"8447843".pn.	US-PGPUB; USPAT	OR	ON	2018/06/18 09:58
S428	3	"20080077425"	US-PGPUB; USPAT	OR	ON	2018/06/18 09:58
S429	0	S428 and appliance	US-PGPUB; USPAT	OR	ON	2018/06/18 09:58
S430	0	S428 and kitchen	US-PGPUB; USPAT	OR	ON	2018/06/18 09:59
S431	21	("20030009271" | "20030105389" | "20060111825" | "20070021847" | "20070198144" | "20070283005" | "20080100428" | "20090138136" | "20090198380" | "20090224906" | "20100030421" | "20100071053" | "20100211258" | "20110153149" | "20120079149" | "20130091279" | "20130308581" | "20140215491" | "20150046582" | "20160062330" | "20160344745").PN.	US-PGPUB; USPAT	OR	OFF	2018/06/18 09:59

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

		"8180492" | "8214070" | "95578755" | "RE00031" | "RE33682" | "T000005" | "T009255" | "T092876" | "T746684").PN.				
S434	4	S433 and appliance	US-PGPUB; USPAT	OR	OFF	2018/06/18 10:01
S435	4	S433 and (appliance or stove or refrigerator)	US-PGPUB; USPAT	OR	OFF	2018/06/18 10:02
S436	1	"20040267385"	US-PGPUB; USPAT	OR	OFF	2018/06/18 10:03
S437	1	S422 and (appliance or stove or refrigerator)	US-PGPUB; USPAT	OR	OFF	2018/06/18 10:04
S438	0	S428 and (appliance or stove or refrigerator)	US-PGPUB; USPAT	OR	OFF	2018/06/18 10:04
S439	5	S431 and (appliance or stove or refrigerator)	US-PGPUB; USPAT	OR	OFF	2018/06/18 10:04
S440	44	(US-20130201316-$ or US-20100030421-$ or US-20120303216-$ or US-20140188343-$ or US-20140236384-$ or US-20070076593-$ or US-20100211258-$ or US-20080100428-$ or US-20060111825-$ or US-20100148940-$ or US-20100201516-$ or US-20110035491-$ or US-20150046582-$ or US-20160062330-$ or US-20060217840-$ or US-20090198380-$ or US-20150295788-$ or US-20120253480-$ or US-20070283005-$ or US-20100071053-$ or US-20130091254-$ or US-20140286348-$ or US-20130091279-$ or US-20030105389-$ or US-20130139440-$ or US-20130308581-$).did. or (US-20110118888-$ or US-20080031139-$ or US-20080068156-$ or US-20080307075-$ or US-20170111158-$ or US-20090224906-$ or US-20090089065-$ or US-20170272316-$ or US-20080077425-$ or US-20040267385-$).did. or (US-8140658-$ or US-7844687-$ or US-7797367-$ or US-7020701-$ or US-6859831-$ or US-6832251-$ or US-6826607-$ or US-6735630-$).did.	US-PGPUB; USPAT	OR	OFF	2018/06/18 10:05
S441	8	S440 and (appliance or stove or refrigerator)	US-PGPUB; USPAT	OR	OFF	2018/06/18 10:05
S442	1	S440 and (stove or refrigerator)	US-PGPUB; USPAT	OR	OFF	2018/06/18 10:05
S443	22	S440 and (appliance or stove or refrigerator or air$1conditioner or microwave)	US-PGPUB; USPAT	OR	OFF	2018/06/18 10:21
S444	15	S440 and (stove or refrigerator or air$1conditioner or microwave)	US-PGPUB; USPAT	OR	OFF	2018/06/18 10:21
S445	6	S440 and (stove or refrigerator or air adj conditioner)	US-PGPUB; USPAT	OR	OFF	2018/06/18 10:22
S446	1	S440 and (burner or stove or oven)	US-PGPUB; USPAT	OR	OFF	2018/06/18 10:26
S447	0	S399 and (burner or stove or oven)	US-PGPUB;	OR	OFF	2018/06/18

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

						12:53
S466	2	S465 and (vehicle and router and actuator).clm.	US-PGPUB	ADJ	ON	2018/06/18 12:53
S467	9404	H04L67/12.cpc.	US-PGPUB	ADJ	ON	2018/06/18 12:54
S468	997	348/77.ccls.	US-PGPUB	ADJ	ON	2018/06/18 12:54
S469	374	700/28.ccls.	US-PGPUB	ADJ	ON	2018/06/18 12:54
S470	148	700/22.ccls.	US-PGPUB	ADJ	ON	2018/06/18 12:54
S471	1455	709/218.ccls.	US-PGPUB	ADJ	ON	2018/06/18 12:54
S472	12341	S467 or S468 or S469 or S470 or S471	US-PGPUB	ADJ	ON	2018/06/18 12:54
S473	5776	709/218.ccls.	US-PGPUB; USPAT	OR	ON	2018/06/18 12:59
S474	14669	H04L67/12.cpc.	US-PGPUB; USPAT	OR	ON	2018/06/18 12:59
S475	29542	B60K 31/00.cpc.	US-PGPUB; USPAT	OR	ON	2018/06/18 12:59
S476	29542	B60K 31/18.cpc.	US-PGPUB; USPAT	OR	ON	2018/06/18 12:59
S477	300	B60Y2200/11.cpc.	US-PGPUB; USPAT	OR	ON	2018/06/18 12:59
S478	915	B60Y2200/12.cpc.	US-PGPUB; USPAT	OR	ON	2018/06/18 12:59
S479	217	B60Y2200/126.cpc.	US-PGPUB; USPAT	OR	ON	2018/06/18 12:59
S480	339	B60Y2200/13.cpc.	US-PGPUB; USPAT	OR	ON	2018/06/18 12:59
S481	42	B60Y2200/30.cpc.	US-PGPUB; USPAT	OR	ON	2018/06/18 12:59
S482	128	B60Y2200/40.cpc.	US-PGPUB; USPAT	OR	ON	2018/06/18 12:59
S483	23	B60Y2200/50.cpc.	US-PGPUB; USPAT	OR	ON	2018/06/18 12:59
S484	104	B60Y2200/90.cpc.	US-PGPUB; USPAT	OR	ON	2018/06/18 12:59
S485	41547	G01C 21/00.cpc.	US-PGPUB; USPAT	OR	ON	2018/06/18 12:59
S486	204	G06Q2240/00.cpc.	US-PGPUB; USPAT	OR	ON	2018/06/18 12:59
S487	11825	G07C 5/008.cpc.	US-PGPUB; USPAT	OR	ON	2018/06/18 12:59
S488	49737	G08G 1/00	US-PGPUB; USPAT	OR	ON	2018/06/18 12:59
S489	19313	G08G 1/00.cpc.	US-PGPUB; USPAT	OR	ON	2018/06/18 12:59
S490	48	(may and patents).as.	US-PGPUB; USPAT	OR	ON	2018/06/18 12:59
S491	55	(may and patents).aanm.	US-PGPUB; USPAT	OR	ON	2018/06/18 12:59
S492	395	(binder and yehuda).in.	US-PGPUB;	OR	ON	2018/06/18

			USPAT			12:59
S493	44	(maytal and benjamin).in.	US-PGPUB; USPAT	OR	ON	2018/06/18 12:59
S494	14669	H04L67/12.cpc.	US-PGPUB; USPAT	OR	ON	2018/06/18 12:59
S495	19392	709/218.ccls..	US-PGPUB; USPAT	OR	ON	2018/06/18 12:59
S496	44	(maytal and benjamin).in.	US-PGPUB; USPAT	OR	ON	2018/06/18 12:59
S497	395	(binder and yehuda).in.	US-PGPUB; USPAT	OR	ON	2018/06/18 12:59
S498	55	(may and patents).aanm.	US-PGPUB; USPAT	OR	ON	2018/06/18 12:59
S499	48	(may and patents).as.	US-PGPUB; USPAT	OR	ON	2018/06/18 12:59
S500	159408	S473 S474 S475 S476 S477 S478 S479 S480 S481 S482 S483 S484 S485 S486 S487 S488 S489 S490 S491 S492 S493 S494 S495 S496 S497 S498 S499	US-PGPUB; USPAT	OR	ON	2018/06/18 12:59
S501	10	S500 and (vehicle and router and actuator).clm.	US-PGPUB; USPAT	ADJ	ON	2018/06/18 13:01
S502	2	"15657163"	US-PGPUB; USPAT	OR	OFF	2018/06/18 13:02
S503	1	S500 and (human with voice with actuator with client).clm.	US-PGPUB; USPAT	ADJ	ON	2018/06/18 13:02
S504	5775	709/218.ccls.	US-PGPUB; USPAT	OR	ON	2018/08/30 15:54
S505	16337	H04L67/12.cpc.	US-PGPUB; USPAT	OR	ON	2018/08/30 15:54
S506	30893	B60K 31/00.cpc.	US-PGPUB; USPAT	OR	ON	2018/08/30 15:54
S507	30893	B60K 31/18.cpc.	US-PGPUB; USPAT	OR	ON	2018/08/30 15:54
S508	307	B60Y2200/11.cpc.	US-PGPUB; USPAT	OR	ON	2018/08/30 15:54
S509	964	B60Y2200/12.cpc.	US-PGPUB; USPAT	OR	ON	2018/08/30 15:54
S510	228	B60Y2200/126.cpc.	US-PGPUB; USPAT	OR	ON	2018/08/30 15:54
S511	372	B60Y2200/13.cpc.	US-PGPUB; USPAT	OR	ON	2018/08/30 15:54
S512	47	B60Y2200/30.cpc.	US-PGPUB; USPAT	OR	ON	2018/08/30 15:54
S513	139	B60Y2200/40.cpc.	US-PGPUB; USPAT	OR	ON	2018/08/30 15:54
S514	28	B60Y2200/50.cpc.	US-PGPUB; USPAT	OR	ON	2018/08/30 15:54
S515	117	B60Y2200/90.cpc.	US-PGPUB; USPAT	OR	ON	2018/08/30 15:54
S516	43002	G01C 21/00.cpc.	US-PGPUB; USPAT	OR	ON	2018/08/30 15:54
S517	267	G06Q2240/00.cpc.	US-PGPUB; USPAT	OR	ON	2018/08/30 15:54

S518	12674	G07C 5/008.cpc.	US-PGPUB; USPAT	OR	ON	2018/08/30 15:54
S519	52730	G08G 1/00	US-PGPUB; USPAT	OR	ON	2018/08/30 15:54
S520	20427	G08G 1/00.cpc.	US-PGPUB; USPAT	OR	ON	2018/08/30 15:54
S521	48	(may and patents).as.	US-PGPUB; USPAT	OR	ON	2018/08/30 15:54
S522	56	(may and patents).aanm.	US-PGPUB; USPAT	OR	ON	2018/08/30 15:54
S523	396	(binder and yehuda).in.	US-PGPUB; USPAT	OR	ON	2018/08/30 15:54
S524	44	(maytal and benjamin).in.	US-PGPUB; USPAT	OR	ON	2018/08/30 15:54
S525	16337	H04L67/12.cpc.	US-PGPUB; USPAT	OR	ON	2018/08/30 15:54
S526	19576	709/218.ccls..	US-PGPUB; USPAT	OR	ON	2018/08/30 15:54
S527	44	(maytal and benjamin).in.	US-PGPUB; USPAT	OR	ON	2018/08/30 15:54
S528	396	(binder and yehuda).in.	US-PGPUB; USPAT	OR	ON	2018/08/30 15:54
S529	56	(may and patents).aanm.	US-PGPUB; USPAT	OR	ON	2018/08/30 15:54
S530	48	(may and patents).as.	US-PGPUB; USPAT	OR	ON	2018/08/30 15:54
S531	167168	S504 S505 S506 S507 S508 S509 S510 S511 S512 S513 S514 S515 S516 S517 S518 S519 S520 S521 S522 S523 S524 S525 S526 S527 S528 S529 S530	US-PGPUB; USPAT	OR	ON	2018/08/30 15:54
S532	1	S531 and (human with voice with actuator with client).clm.	US-PGPUB; USPAT	ADJ	ON	2018/08/30 15:54
S533	7	(US-20160062330-$ or US-20070283005-$ or US-20100071053-$ or US-20130091279-$ or US-20080307075-$ or US-20090089065-$ or US-20170272316-$).did.	US-PGPUB	OR	OFF	2018/08/31 12:30
S534	1	"15832787"	US-PGPUB; USPAT	OR	OFF	2018/09/15 21:04
S535	32	("20070198144" | "20100211258" | "20160062330" | "20170272316" | "20070096565" | "20070176740" | "20100071053" | "20140215491" | "20150046582" | "20160344745" | "20060212194" | "20120079149" | "20030105389" | "20090138136" | "20090224906" | "20080129475" | "20080136670" | "20130091279" | "20130308581" | "20130139440" | "20080100428" | "20080307075" | "20110153149" | "20050273505" | "20060111825" | "20070021847" | "20090198380" | "20100030421" | "20030009271" | "20070283005" | "20090089065" | "20100207754").PN.	US-PGPUB; USPAT	OR	OFF	2018/09/16 02:08
S536	7	(US-20160062330-$ or US-	US-PGPUB	OR	OFF	2018/09/16

		20070283005-$ or US-20100071053-$ or US-20130091279-$ or US-20080307075-$ or US-20090089065-$ or US-20170272316-$).did.				02:13
S537	45	(US-20130201316-$ or US-20100030421-$ or US-20120303216-$ or US-20140188343-$ or US-20140236384-$ or US-20070076593-$ or US-20100211258-$ or US-20080100428-$ or US-20060111825-$ or US-20100148940-$ or US-20100201516-$ or US-20110035491-$ or US-20150046582-$ or US-20160062330-$ or US-20060217840-$ or US-20090198380-$ or US-20150295788-$ or US-20120253480-$ or US-20070283005-$ or US-20100071053-$ or US-20130091254-$ or US-20140286348-$ or US-20130091279-$ or US-20030105389-$ or US-20130139440-$ or US-20130308581-$).did. or (US-20110118888-$ or US-20080031139-$ or US-20080068156-$ or US-20080307075-$ or US-20170111158-$ or US-20090224906-$ or US-20090089065-$ or US-20170272316-$ or US-20080077425-$ or US-20040267385-$ or US-20180124181-$).did. or (US-8140658-$ or US-7844687-$ or US-7797367-$ or US-7020701-$ or US-6859831-$ or US-6832251-$ or US-6826607-$ or US-6735630-$).did.	US-PGPUB; USPAT	OR	OFF	2018/09/16 02:13
S538	7	S535 and S536 and S537	US-PGPUB; USPAT	OR	OFF	2018/09/16 02:13
S539	60	S535 or S536 or S537	US-PGPUB; USPAT	OR	OFF	2018/09/16 02:13
S540	17	S539 and ((voice or audio or speech) with control)	US-PGPUB; USPAT	OR	OFF	2018/09/16 02:13
S541	13	S540 and (LED or light)	US-PGPUB; USPAT	OR	OFF	2018/09/16 02:13
S542	8	S539 and ((voice or audio or speech) adj3 control)	US-PGPUB; USPAT	OR	OFF	2018/09/16 02:14
S543	7	S542 and (LED or light)	US-PGPUB; USPAT	OR	OFF	2018/09/16 02:14
S544	4	S542 and ((actuator or respond or response or responsing or alerting or 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" |	US-PGPUB; USPAT	OR	OFF	2018/09/16 17:50

		"20030105389" | "20090138136" | "20090224906" | "20080129475" | "20080136670" | "20130091279" | "20130308581" | "20130139440" | "20080100428" | "20080307075" | "20110153149" | "20050273505" | "20060111825" | "20070021847" | "20090198380" | "20100030421" | "20030009271" | "20070283005" | "20090089065" | "20100207754").PN.				
S547	7	(US-20160062330-$ or US-20070283005-$ or US-20100071053-$ or US-20130091279-$ or US-20080307075-$ or US-20090089065-$ or US-20170272316-$).did.	US-PGPUB	OR	OFF	2018/09/16 17:50
S548	45	(US-20130201316-$ or US-20100030421-$ or US-20120303216-$ or US-20140188343-$ or US-20140236384-$ or US-20070076593-$ or US-20100211258-$ or US-20080100428-$ or US-20060111825-$ or US-20100148940-$ or US-20100201516-$ or US-20110035491-$ or US-20150046582-$ or US-20160062330-$ or US-20060217840-$ or US-20090198380-$ or US-20150295788-$ or US-20120253480-$ or US-20070283005-$ or US-20100071053-$ or US-20130091254-$ or US-20140286348-$ or US-20130091279-$ or US-20030105389-$ or US-20130139440-$ or US-20130308581-$).did. or (US-20110118888-$ or US-20080031139-$ or US-20080068156-$ or US-20080307075-$ or US-20170111158-$ or US-20090224906-$ or US-20090089065-$ or US-20170272316-$ or US-20080077425-$ or US-20040267385-$ or US-20180124181-$).did. or (US-8140658-$ or US-7844687-$ or US-7797367-$ or US-7020701-$ or US-6859831-$ or US-6832251-$ or US-6826607-$ or US-6735630-$).did.	US-PGPUB; USPAT	OR	OFF	2018/09/16 17:50
S549	60	S546 or S547 or S548	US-PGPUB; USPAT	OR	OFF	2018/09/16 17:50
S550	13	S549 and ((actuator or respond or response or responsing or alerting or notifying or alert or notify or notifcation) with (LED or light))	US-PGPUB; USPAT	OR	OFF	2018/09/16 17:50
S551	13929	sensor same actuator same light	US-PGPUB; USPAT	OR	OFF	2018/09/16 17:54
S552	40441	home with security	US-PGPUB; USPAT	OR	OFF	2018/09/16 17:54
S553	38871	S552 and (control or central or server)	US-PGPUB; USPAT	OR	OFF	2018/09/16 17:55
S554	3449	S553 and (actuator)	US-PGPUB; USPAT	OR	OFF	2018/09/16 17:55
S555	1784	S554 and light and LED	US-PGPUB; USPAT	OR	OFF	2018/09/16 17:55

S556	9664	S553 and light and LED	US-PGPUB; USPAT	OR	OFF	2018/09/16 17:55
S557	6008	S556 and alarm	US-PGPUB; USPAT	OR	OFF	2018/09/16 17:55
S558	5158	S557 and internet	US-PGPUB; USPAT	OR	OFF	2018/09/16 17:56
S559	5700	S557 and wireless	US-PGPUB; USPAT	OR	OFF	2018/09/16 17:56
S560	5082	S559 and internet	US-PGPUB; USPAT	OR	OFF	2018/09/16 17:56
S561	26	(may and patents).as.	US-PGPUB	ADJ	ON	2018/09/16 17:57
S562	40	(may and patents).aanm.	US-PGPUB	ADJ	ON	2018/09/16 17:57
S563	58	S561 or S562	US-PGPUB	ADJ	ON	2018/09/16 17:57
S564	5130	S560 XOR S563	US-PGPUB; USPAT	OR	OFF	2018/09/16 17:57
S565	152	S560 and (actuator with light)	US-PGPUB; USPAT	OR	OFF	2018/09/16 17:58
S566	234	S560 and (actuator same light)	US-PGPUB; USPAT	OR	OFF	2018/09/16 17:58
S567	715	S560 and (sensor with internet)	US-PGPUB; USPAT	OR	OFF	2018/09/16 20:02
S568	47	S565 and (sensor with internet)	US-PGPUB; USPAT	OR	OFF	2018/09/16 20:02
S569	9	S565 and (sensor NEAR7 internet)	US-PGPUB; USPAT	OR	OFF	2018/09/16 20:02
S570	45	S568 and (control$4 with light)	US-PGPUB; USPAT	OR	OFF	2018/09/16 20:07
S571	42	S568 and (control$4 NEAR9 light)	US-PGPUB; USPAT	OR	OFF	2018/09/16 20:07
S572	2	(US-20070283005-$ or US-20180253069-$).did.	US-PGPUB	OR	OFF	2018/09/16 21:47
S573	1	S572 and lamp	US-PGPUB; USPAT	OR	OFF	2018/09/16 21:47
S574	3	(US-20070283005-$ or US-20090089065-$ or US-20180253069-$).did.	US-PGPUB	OR	OFF	2018/09/16 21:51
S575	3	S574 and (voice)	US-PGPUB	OR	OFF	2018/09/16 21:51
S576	3	S574 and (speech or voice)	US-PGPUB	OR	OFF	2018/09/16 21:52
S577	1	S574 and (speech)	US-PGPUB	OR	OFF	2018/09/16 21:52
S578	47	(US-20130201316-$ or US-20100030421-$ or US-20120303216-$ or US-20140188343-$ or US-20140236384-$ or US-20070076593-$ or US-20100211258-$ or US-20080100428-$ or US-20060111825-$ or US-20100148940-$ or US-20100201516-$ or US-20110035491-$ or US-20150046582-$ or US-20160062330-$ or US-20060217840-$	US-PGPUB; USPAT	OR	OFF	2018/09/16 21:52

		or US-20090198380-$ or US-20150295788-$ or US-20120253480-$ or US-20070283005-$ or US-20100071053-$ or US-20130091254-$ or US-20140286348-$ or US-20130091279-$ or US-20030105389-$ or US-20130139440-$ or US-20130308581-$).did. or (US-20110118888-$ or US-20080031139-$ or US-20080068156-$ or US-20080307075-$ or US-20170111158-$ or US-20090224906-$ or US-20090089065-$ or US-20170272316-$ or US-20080077425-$ or US-20040267385-$ or US-20180124181-$ or US-20050216302-$ or US-20180253069-$).did. or (US-8140658-$ or US-7844687-$ or US-7797367-$ or US-7020701-$ or US-6859831-$ or US-6832251-$ or US-6826607-$ or US-6735630-$).did.				
S579	8	S578 and ((speech or voice) with control)	US-PGPUB; USPAT	OR	OFF	2018/09/16 21:53
S580	1	S574 and (lamp)	US-PGPUB	OR	OFF	2018/09/16 21:54
S581	2	S574 and (LED or light or bulb)	US-PGPUB	OR	OFF	2018/09/16 21:55
S582	1	"20080215391"	US-PGPUB	OR	OFF	2018/09/16 22:08
S583	2	(US-20070283005-$ or US-20080215391-$).did.	US-PGPUB	OR	OFF	2018/09/16 22:16
S584	1	"15832787"	US-PGPUB	OR	OFF	2018/09/16 22:40
S585	5775	709/218.ccls.	US-PGPUB; USPAT	OR	OFF	2018/09/17 00:59
S586	16494	H04L67/12.cpc.	US-PGPUB; USPAT	OR	OFF	2018/09/17 00:59
S587	31132	B60K 31/00.cpc.	US-PGPUB; USPAT	OR	OFF	2018/09/17 00:59
S588	150	B60K31/18.cpc.	US-PGPUB; USPAT	OR	OFF	2018/09/17 00:59
S589	670	B60K31/00.cpc.	US-PGPUB; USPAT	OR	OFF	2018/09/17 00:59
S590	309	B60Y2200/11.cpc.	US-PGPUB; USPAT	OR	OFF	2018/09/17 01:00
S591	966	B60Y2200/12.cpc.	US-PGPUB; USPAT	OR	OFF	2018/09/17 01:00
S592	230	B60Y2200/126.cpc.	US-PGPUB; USPAT	OR	OFF	2018/09/17 01:00
S593	378	B60Y2200/13.cpc.	US-PGPUB; USPAT	OR	OFF	2018/09/17 01:00
S594	48	B60Y2200/30.cpc.	US-PGPUB; USPAT	OR	OFF	2018/09/17 01:00
S595	139	B60Y2200/40.cpc.	US-PGPUB; USPAT	OR	OFF	2018/09/17 01:00
S596	28	B60Y2200/50.cpc.	US-PGPUB; USPAT	OR	OFF	2018/09/17 01:00

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

		or US-20120079149-$ or US-20080031139-$ or US-20080068156-$ or US-20080307075-$ or US-20170111158-$ or US-20090224906-$ or US-20170078400-$ or US-20110153149-$ or US-20110032952-$ or US-20090138136-$ or US-20030009271-$ or US-20070198144-$ or US-20070021847-$ or US-20110055292-$ or US-20070225873-$ or US-20140215491-$ or US-20090089065-$).did. or (US-8140658-$ or US-7844687-$ or US-7797367-$ or US-7020701-$ or US-6859831-$ or US-6832251-$ or US-6826607-$ or US-6735630-$).did.				
S612	44	(US-20130201316-$ or US-20100030421-$ or US-20120303216-$ or US-20140188343-$ or US-20140236384-$ or US-20070076593-$ or US-20100211258-$ or US-20080100428-$ or US-20060111825-$ or US-20100148940-$ or US-20100201516-$ or US-20110035491-$ or US-20150046582-$ or US-20160062330-$ or US-20060217840-$ or US-20090198380-$ or US-20150295788-$ or US-20120253480-$ or US-20070283005-$ or US-20100071053-$ or US-20130091254-$ or US-20140286348-$ or US-20130091279-$ or US-20030105389-$ or US-20130139440-$ or US-20130308581-$).did. or (US-20110118888-$ or US-20080031139-$ or US-20080068156-$ or US-20080307075-$ or US-20170111158-$ or US-20090224906-$ or US-20090089065-$ or US-20170272316-$ or US-20080077425-$ or US-20040267385-$).did. or (US-8140658-$ or US-7844687-$ or US-7797367-$ or US-7020701-$ or US-6859831-$ or US-6832251-$ or US-6826607-$ or US-6735630-$).did.	US-PGPUB; USPAT	OR	OFF	2018/09/20 16:52
S613	7	(US-20160062330-$ or US-20070283005-$ or US-20100071053-$ or US-20130091279-$ or US-20080307075-$ or US-20090089065-$ or US-20170272316-$).did.	US-PGPUB; USPAT	OR	OFF	2018/09/20 16:53
S614	0	"15992221"	US-PGPUB; USPAT	OR	OFF	2018/09/20 16:57
S615	58	(US-20130201316-$ 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-	US-PGPUB; USPAT	OR	OFF	2018/09/20 21:30

		20150295788-$ or US-20120253480-$ or US-20070283005-$ or US-20100071053-$ or US-20130091254-$ or US-20140286348-$ or US-20130091279-$ or US-20030105389-$ or US-20130139440-$ or US-20130308581-$).did. or (US-20110118888-$ or US-20080031139-$ or US-20080068156-$ or US-20080307075-$ or US-20170111158-$ or US-20090224906-$ or US-20090089065-$ or US-20170272316-$ or US-20080077425-$ or US-20040267385-$ or US-20180124181-$ or US-20050216302-$ or US-20180253069-$ or US-20080215391-$ or US-20030009271-$ or US-20140215491-$ or US-20110153149-$ or US-20090138136-$ or US-20070198144-$ or US-20070021847-$ or US-20160344745-$ or US-20110055292-$ or US-20110032952-$ or US-20070225873-$).did. or (US-8140658-$ or US-7844687-$ or US-7797367-$ or US-7020701-$ or US-6859831-$ or US-6832251-$ or US-6826607-$ or US-6735630-$).did.				
S616	13	S615 and appliance	US-PGPUB; USPAT	OR	OFF	2018/09/20 21:30
S617	6	S616 and (alternating or AC)	US-PGPUB; USPAT	OR	OFF	2018/09/20 21:30
S618	11	(US-20160062330-$ or US-20070283005-$ or US-20100071053-$ or US-20130091279-$ or US-20080307075-$ or US-20090089065-$ or US-20170272316-$ or US-20040267385-$ or US-20130139440-$ or US-20180253069-$ or US-20080215391-$).did.	US-PGPUB	OR	OFF	2018/09/20 21:33
S622	58	S615 or S618	US-PGPUB; USPAT	OR	OFF	2018/09/20 21:33
S623	25724	smart with appliance	US-PGPUB; USPAT	OR	OFF	2018/09/20 21:34
S624	40382	smart with appliance	US-PGPUB; USPAT	OR	ON	2018/09/20 21:34
S625	1316	S624 and (kitchen and food)	US-PGPUB; USPAT	OR	ON	2018/09/20 21:35
S626	997	S624 and (kitchen and cook$4 and food)	US-PGPUB; USPAT	OR	ON	2018/09/20 21:35
S627	676	S625 and (alternating or AC)	US-PGPUB; USPAT	OR	ON	2018/09/20 21:35
S628	652	S627 and current	US-PGPUB; USPAT	OR	ON	2018/09/20 21:36
S629	356	S628 and antenna	US-PGPUB; USPAT	OR	ON	2018/09/20 21:36
S630	351	S629 and (relay or switch)	US-PGPUB; USPAT	OR	ON	2018/09/20 21:36
S631	23	S630 and latch	US-PGPUB; USPAT	OR	ON	2018/09/20 21:36

S632	23	S631 and wireless	US-PGPUB; USPAT	OR	ON	2018/09/20 21:36
S633	468	S627 and (current with sensor)	US-PGPUB; USPAT	OR	ON	2018/09/20 21:37
S634	117	S633 and actuator	US-PGPUB; USPAT	OR	ON	2018/09/20 21:37
S635	12	S632 and actuator	US-PGPUB; USPAT	OR	ON	2018/09/20 21:37
S636	1	"9717949".pn.	US-PGPUB; USPAT	OR	ON	2018/09/20 21:42
S637	7	"20060166737"	US-PGPUB; USPAT	OR	ON	2018/09/20 21:42
S638	1	"20140072278"	US-PGPUB; USPAT	OR	ON	2018/09/20 21:42
S639	4	"12206766"	US-PGPUB; USPAT	OR	ON	2018/09/20 21:47
S640	4	"11930299"	US-PGPUB; USPAT	OR	ON	2018/09/20 21:48
S641	356	S629 and wireless	US-PGPUB; USPAT	OR	ON	2018/09/20 22:53
S642	351	S641 and sensor	US-PGPUB; USPAT	OR	ON	2018/09/20 22:53
S643	297	S642 and relay	US-PGPUB; USPAT	OR	ON	2018/09/20 22:54
S644	6	S618 and appliance	US-PGPUB; USPAT	OR	OFF	2018/09/20 22:57
S645	59	(US-20130201316-$ or US-20100030421-$ or US-20120303216-$ or US-20140188343-$ or US-20140236384-$ or US-20070076593-$ or US-20100211258-$ or US-20080100428-$ or US-20060111825-$ or US-20100148940-$ or US-20100201516-$ or US-20110035491-$ or US-20150046582-$ or US-20160062330-$ or US-20060217840-$ or US-20090198380-$ or US-20150295788-$ or US-20120253480-$ or US-20070283005-$ or US-20100071053-$ or US-20130091254-$ or US-20140286348-$ or US-20130091279-$ or US-20030105389-$ or US-20130139440-$ or US-20130308581-$).did. or (US-20110118888-$ or US-20080031139-$ or US-20080068156-$ or US-20080307075-$ or US-20170111158-$ or US-20090224906-$ or US-20090089065-$ or US-20170272316-$ or US-20080077425-$ or US-20040267385-$ or US-20180124181-$ or US-20050216302-$ or US-20180253069-$ or US-20080215391-$ or US-20030009271-$ or US-20140215491-$ or US-20110153149-$ or US-20090138136-$ or US-20070198144-$ or US-20070021847-$ or US-20160344745-$ or US-20110055292-$ or US-20110032952-$	US-PGPUB; USPAT	OR	OFF	2018/09/20 23:15

		or US-20070225873-$ or US-20160218884-$).did. or (US-8140658-$ or US-7844687-$ or US-7797367-$ or US-7020701-$ or US-6859831-$ or US-6832251-$ or US-6826607-$ or US-6735630-$).did.				
S646	3	S645 and refrigerator	US-PGPUB; USPAT	OR	OFF	2018/09/20 23:15
S647	3	S645 and (stove or oven)	US-PGPUB; USPAT	OR	OFF	2018/09/20 23:15
S648	2	"20130041519"	US-PGPUB; USPAT	OR	OFF	2018/09/21 00:08
S649	80	S643 and solenoid	US-PGPUB; USPAT	OR	OFF	2018/09/21 00:08
S650	80	S643 and (solenoid or SSR or (solid adj state adj relay) or (reed NEAR4 relay) or (relay NEAR5 (solidstate or solid$1state)) or (relay NEAR5 semiconductor))	US-PGPUB; USPAT	OR	OFF	2018/09/21 00:10
S652	6	(US-20170272316-$ or US-20180253069-$ or US-20160218884-$ or US-20110251807-$ or US-20120228952-$ or US-20140170275-$).did.	US-PGPUB	OR	OFF	2018/09/21 00:29
S653	0	S652 and (relay with latching)	US-PGPUB; USPAT	OR	OFF	2018/09/21 00:30
S654	1	S652 and (relay with solenoid)	US-PGPUB; USPAT	OR	OFF	2018/09/21 00:30
S655	4	S652 and (relay)	US-PGPUB; USPAT	OR	OFF	2018/09/21 00:30
S656	9637	relay with (latch$4)	US-PGPUB; USPAT	OR	OFF	2018/09/21 00:34
S657	55096	(switch or relay) with (latch$4)	US-PGPUB; USPAT	OR	OFF	2018/09/21 00:34
S658	650	S657 and ((appliance) and (food or cook$4 or kitchen))	US-PGPUB; USPAT	OR	OFF	2018/09/21 00:34
S659	264	S658 and solenoid	US-PGPUB; USPAT	OR	OFF	2018/09/21 00:34
S660	103	S659 and wireless	US-PGPUB; USPAT	OR	OFF	2018/09/21 00:35
S661	1	"4521183".pn.	US-PGPUB; USPAT	OR	OFF	2018/09/21 00:44
S662	1	"6663009".pn.	US-PGPUB; USPAT	OR	OFF	2018/09/21 00:48
S663	1	"5167216".pn.	US-PGPUB; USPAT	OR	OFF	2018/09/21 00:49
S664	2	"20050098169"	US-PGPUB; USPAT	OR	OFF	2018/09/21 00:49
S665	2	"20130041519"	US-PGPUB; USPAT	OR	OFF	2018/09/21 00:57
S666	2	"20130041519"	US-PGPUB; USPAT	OR	OFF	2018/09/21 00:57
S667	1	"7657763".pn.	US-PGPUB; USPAT	OR	OFF	2018/09/21 00:58
S668	63444	((appliance) and (food or cook$4 or kitchen))	US-PGPUB; USPAT	OR	OFF	2018/09/21 01:00

S669	3220	S668 and solenoid	US-PGPUB; USPAT	OR	OFF	2018/09/21 01:00
S670	1181	S669 and wireless	US-PGPUB; USPAT	OR	OFF	2018/09/21 01:00
S671	95717	((appliance) and (food or cook$4 or kitchen))	US-PGPUB; USPAT	OR	ON	2018/09/21 01:00
S672	4701	S671 and solenoid	US-PGPUB; USPAT	OR	ON	2018/09/21 01:01
S673	1692	S672 and wireless	US-PGPUB; USPAT	OR	ON	2018/09/21 01:01
S674	244	S673 and (switch or relay or mechanism) with (latch$4)	US-PGPUB; USPAT	OR	ON	2018/09/21 01:01
S675	4	"13650100"	US-PGPUB; USPAT	OR	OFF	2018/09/21 01:08
S676	2	"20080029081"	US-PGPUB; USPAT	OR	OFF	2018/09/21 01:10
S677	6	("4756839" | "4813487" | "4979572" | "5351760" | "5992531" | "7303024").PN.	US-PGPUB; USPAT	OR	OFF	2018/09/21 01:11
S678	2	"20110170377" or "4756336".pn.	US-PGPUB; USPAT	OR	OFF	2018/09/21 01:59
S679	2	(US-20160218884-$ or US-20120325197-$).did.	US-PGPUB	OR	OFF	2018/09/21 03:17
S680	1	S679 and (wireless with A12)	US-PGPUB; USPAT	OR	OFF	2018/09/21 03:17
S681	0	S679 and (AC with A12)	US-PGPUB; USPAT	OR	OFF	2018/09/21 03:18
S682	2	S679 and (AC)	US-PGPUB; USPAT	OR	OFF	2018/09/21 03:18
S683	1	S679 and (AC with appliance)	US-PGPUB; USPAT	OR	OFF	2018/09/21 03:18
S684	9	(US-20170272316-$ or US-20180253069-$ or US-20160218884-$ or US-20110251807-$ or US-20120228952-$ or US-20140170275-$ or US-20150226439-$ or US-20120325197-$ or US-20090183729-$).did.	US-PGPUB	OR	OFF	2018/09/21 03:21
S685	1	S684 and (AC with appliance)	US-PGPUB; USPAT	OR	OFF	2018/09/21 03:21
S686	7	S684 and (AC)	US-PGPUB; USPAT	OR	OFF	2018/09/21 03:21
S687	2	S684 and (alternating)	US-PGPUB; USPAT	OR	OFF	2018/09/21 03:24
S688	5833	(whirlpool and corporation).as.	US-PGPUB; USPAT	OR	OFF	2018/09/21 03:27
S689	2331	(whirlpool and corporation).aanm.	US-PGPUB; USPAT	OR	OFF	2018/09/21 03:27
S690	6250	S688 or S689	US-PGPUB; USPAT	OR	OFF	2018/09/21 03:27
S691	86	S690 and (solenoid and wireless)	US-PGPUB; USPAT	OR	OFF	2018/09/21 03:27
S692	75	S690 and (solenoid and appliance and wireless)	US-PGPUB; USPAT	OR	OFF	2018/09/21 03:27

S693	70	S690 and (solenoid and appliance and food and wireless)	US-PGPUB; USPAT	OR	OFF	2018/09/21 03:28
S694	36	S690 and (solenoid and appliance and antenna and food and wireless)	US-PGPUB; USPAT	OR	OFF	2018/09/21 03:28
S695	9	S684 and ((electric or electricity or current or energy or power) with (bill$4 or consumption or us$4 or consum$4 or measur$4))	US-PGPUB; USPAT	OR	ON	2018/09/21 03:32
S696	8	S684 and (alternating or AC)	US-PGPUB; USPAT	OR	ON	2018/09/21 03:32
S697	2	S684 and ((alternating or AC) with appliance)	US-PGPUB; USPAT	OR	ON	2018/09/21 03:32
S698	112	ebrom.in.	US-PGPUB; USPAT	OR	ON	2018/09/21 03:40
S699	11	S698 and (appliance with (AC or alternating))	US-PGPUB; USPAT	OR	ON	2018/09/21 03:40
S700	7	S684 and (sensor with (electric or electricity or current or energy or power) with (bill$4 or consumption or us$4 or consum$4 or measur$4))	US-PGPUB; USPAT	OR	ON	2018/09/21 04:44
S701	5775	709/218.ccls.	US-PGPUB; USPAT	OR	ON	2018/09/21 05:25
S702	16552	H04L67/12.cpc.	US-PGPUB; USPAT	OR	ON	2018/09/21 05:25
S703	102574	B60K 31/00.cpc. B60K 31/18.cpc. B60Y2200/11.cpc. B60Y2200/12.cpc. B60Y2200/126.cpc. B60Y2200/13.cpc. B60Y2200/30.cpc. B60Y2200/40.cpc. B60Y2200/50.cpc. B60Y2200/90.cpc. G01C 21/00.cpc. G06Q2240/00.cpc. G07C 5/008.cpc. G08G 1/00.cpc.	US-PGPUB; USPAT	OR	ON	2018/09/21 05:26
S704	45	(maytal and benjamin).in.	US-PGPUB; USPAT	OR	ON	2018/09/21 05:27
S705	397	(binder and yehuda).in.	US-PGPUB; USPAT	OR	ON	2018/09/21 05:27
S706	57	(may and patents).aanm.	US-PGPUB; USPAT	OR	ON	2018/09/21 05:27
S707	48	(may and patents).as.	US-PGPUB; USPAT	OR	ON	2018/09/21 05:27
S708	437	S704 S705 S706 S707	US-PGPUB; USPAT	OR	ON	2018/09/21 05:27
S709	123485	S701 or S702 or S703 or S708	US-PGPUB; USPAT	OR	ON	2018/09/21 05:28
S710	2	S709 and (relay with solenoid with reed).clm.	US-PGPUB; USPAT	OR	ON	2018/09/21 05:28
S712	1	"15992221"	US-PGPUB; USPAT	OR	ON	2019/01/11 13:47
S713	4	"11930299"	US-PGPUB; USPAT	OR	ON	2019/01/11 13:49
S714	1	(US-20080130520-$).did.	US-PGPUB	OR	ON	2019/01/11 13:49
S715	3	"12256555"	US-PGPUB	OR	ON	2019/01/11 14:11
S716	1	(US-20130235197-$).did.	US-PGPUB	OR	ON	2019/01/11 14:12

S717	5774	709/218.ccls.	US-PGPUB; USPAT	OR	ON	2019/01/11 16:17
S718	17742	H04L67/12.cpc.	US-PGPUB; USPAT	OR	ON	2019/01/11 16:17
S719	108919	B60K 31/00.cpc. B60K 31/18.cpc. B60Y2200/11.cpc. B60Y2200/12.cpc. B60Y2200/126.cpc. B60Y2200/13.cpc. B60Y2200/30.cpc. B60Y2200/40.cpc. B60Y2200/50.cpc. B60Y2200/90.cpc. G01C 21/00.cpc. G06Q2240/00.cpc. G07C 5/008.cpc. G08G 1/00.cpc.	US-PGPUB; USPAT	OR	ON	2019/01/11 16:17
S720	49	(maytal and benjamin).in.	US-PGPUB; USPAT	OR	ON	2019/01/11 16:17
S721	408	(binder and yehuda).in.	US-PGPUB; USPAT	OR	ON	2019/01/11 16:17
S722	64	(may and patents).aanm.	US-PGPUB; USPAT	OR	ON	2019/01/11 16:17
S723	48	(may and patents).as.	US-PGPUB; USPAT	OR	ON	2019/01/11 16:17
S724	448	S720 S721 S722 S723	US-PGPUB; USPAT	OR	ON	2019/01/11 16:17
S725	130841	S717 or S718 or S719 or S724	US-PGPUB; USPAT	OR	ON	2019/01/11 16:17
S726	5	S725 and (relay with solenoid with reed).clm.	US-PGPUB; USPAT	OR	ON	2019/01/11 16:17
S727	5775	709/218.ccls.	US-PGPUB; USPAT	OR	ON	2019/04/09 16:21
S728	18833	H04L67/12.cpc.	US-PGPUB; USPAT	OR	ON	2019/04/09 16:21
S729	113966	B60K 31/00.cpc. B60K 31/18.cpc. B60Y2200/11.cpc. B60Y2200/12.cpc. B60Y2200/126.cpc. B60Y2200/13.cpc. B60Y2200/30.cpc. B60Y2200/40.cpc. B60Y2200/50.cpc. B60Y2200/90.cpc. G01C 21/00.cpc. G06Q2240/00.cpc. G07C 5/008.cpc. G08G 1/00.cpc.	US-PGPUB; USPAT	OR	ON	2019/04/09 16:21
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	136815	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	5775	709/218.ccls.	US-PGPUB;	OR	ON	2019/05/06

			USPAT			16:21
S738	19169	H04L67/12.cpc.	US-PGPUB; USPAT	OR	ON	2019/05/06 16:21
S739	115490	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	2019/05/06 16:21
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	138635	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" | "20100079508" | "20110205379" | "5912721" | "6657628").PN.	US-PGPUB; USPAT	OR	ON	2019/10/07 10:02
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-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-	US-PGPUB; USPAT	OR	ON	2019/10/07 16:08

		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-20140170275-$ or US-20150226439-$ or US-20120325197-$ or US-20090183729-$ or US-20080130520-$ or US-20090046715-$ or US-20010025349-$).did.	US-PGPUB	OR	ON	2019/10/07 18:40
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-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-$	US-PGPUB; USPAT	OR	ON	2019/10/08 03:33

		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-20180253069-$ or US-20080215391-$ or US-20030009271-$ or US-20140215491-$ or US-20110153149-$ or US-20090138136-$ or US-20070198144-$ or US-20070021847-$	US-PGPUB; USPAT	OR	ON	2019/10/08 05:05

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

		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-$).did.				
S780	4	S779 and rabbit	US-PGPUB; USPAT	OR	ON	2019/10/09 23:34
S781	5	"9378509"	US-PGPUB; USPAT	OR	ON	2019/10/10 00:26
S782	1	"09378509"	US-PGPUB; USPAT	OR	ON	2019/10/10 00:27
S783	9	"09/378,509"	US-PGPUB; USPAT	OR	ON	2019/10/10 00:27
S784	87	(US-20130201316-$ or US-20100030421-$ or US-20120303216-$ or US-20140188343-$ or US-20140236384-$ or US-20070076593-$ or US-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-$	US-PGPUB; USPAT	OR	ON	2019/10/10 04:27

		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-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.	US-PGPUB; USPAT	OR	ON	2019/10/11 06:02
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-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-PGPUB; USPAT	OR	ON	2019/10/11 12:24

		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-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-$	US-PGPUB; USPAT	OR	ON	2019/10/11 14:38

		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-	US-PGPUB; USPAT	OR	ON	2019/10/12 06:07

		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-$).did.				
S822	20	S821 and (industrial near5 scientific)	US-PGPUB; USPAT	OR	ON	2019/10/12 06:07
S823	17	S822 and broadband	US-PGPUB; USPAT	OR	ON	2019/10/12 06:08
S824	4	S823 and (wimax or wi-max or (wi adj max))	US-PGPUB; USPAT	OR	ON	2019/10/12 06:08
S825	1	"20050125083"	US-PGPUB; USPAT	OR	ON	2019/10/12 06:10
S826	4	(US-20050125083-$ 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	US-PGPUB	OR	ON	2019/10/12

		transverse or longitu$4)				11:48
S830	88	(US-20130201316-$ 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-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.	US-PGPUB; USPAT	OR	ON	2019/10/12 11:49
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	3016	(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-20050125083-$ or US-20070283005-$ or US-20110148651-$).did. or (US-6546297-$).did.	US-PGPUB; USPAT	OR	ON	2019/10/12 13:07
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-$	US-PGPUB; USPAT	OR	ON	2019/10/12 13:14

		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-$).did. or (US-8140658-$ 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	1998	(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-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-	US-PGPUB; USPAT	OR	ON	2019/10/12 18:14

		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-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.	US-PGPUB; USPAT	OR	ON	2019/10/12 18:15

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

EAST Search History (Interference)

< This search history is empty>

10/ 12/ 2019 11:36:22 PM
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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	)	June 28, 2019
	)	

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:

APPEAL BRIEF

Appellant submit this Appeal Brief to the PATENT TRIAL AND APPEALS BOARD (PTAB) on appeal from the decision of the Examiner of Group Art Unit 2456 dated May 13, 2019, finally rejecting claims 1-11 under 35 U.S.C. 103(a) [hereinafter 'Action' or 'Final action'], after a prosecution reopening.

Real Party of Interest

The real party in interest is May Patents Ltd., the assignee of record.

Related Appeals and Interferences

Appeal No. 2018-007694 was docketed July 25, 2018, from parent application 13/733,634 that claims the same priority and includes the same specifications as this application. This appeal may be related to, directly affect or be directly affected by, or have a bearing on the Board's decision in the pending appeal.

Appeal No. 2019-002056 was docketed January 15, 2019, from co-pending patent application 16/657,163 that claims the same priority and includes the same specifications as this application. This appeal may be related to, directly affect or be directly affected by, or have a bearing on the Board's decision in the pending appeal.

Appeal No. 2019-000272 was docketed October 12, 2018, from co-pending patent application 15/361,434 that claims the same priority and includes the same specifications as this application. This appeal may be related to, directly affect or be directly affected by, or have a bearing on the Board's decision in the pending appeal.

Appeal No. 2019-002059 was docketed January 15, 2019, from co-pending patent application 15/716,881 that claims the same priority and includes the same specifications as this application. This appeal may be related to, directly affect or be directly affected by, or have a bearing on the Board's decision in the pending appeal.

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Status of Claims

Claims 1-64 are pending in the application. Claim 1-11 are rejected after alleged election by Applicant, and are attached in Appendix A. The pending claims stand rejected in the Final Action dated May 13, 2018 under 35 U.S.C. §103(a).

Status of Amendments

No amendments have been made to the pending claims in a response to the final Office Action dated May 13, 2019.

Summary of Claimed Subject Matter

Claim 1 discloses an Alternating-Current (AC)-powered appliance (such as item 50e or 58a in Figure 5e) associated with food storage, handling, or preparation (page 181, lines 6-11) for use with a wireless network. The appliance comprising an AC connector (such as item 59f, 59g, or 59h, in Figure 5e) for connecting the appliance to an AC power source; a current sensor (such as item 57a or 57b in Figure 5e) coupled to the AC connector for measuring an AC current consumed by the appliance; an antenna (such as item 55 in Figure 5e) for communication over the wireless network; a wireless transceiver (such as item 54 in Figure 5e) coupled to the antenna for transmitting digital data to, and for receiving digital data from, the wireless network; and a single enclosure (such as item 50e in Figure 5e) housing the current sensor, the antenna, and the wireless transceiver. The appliance is controlled or activated in response to digital data received from the wireless network (Figure 17), and the current sensor is coupled to the wireless transceiver for transmitting digital data in response to the measured AC current to the wireless network (page 112, lines 5-12; Figure 5e; Figure 17).

Argument

Ground of Rejection to be Reviewed on Appeal

Office Action, section 4 pages 3-9

Claims 1-11 are rejected under pre-AIA 35 U.S.C. 103 as being unpatentable over Ebrom *et al.* (US 2016/0218884 - hereinafter "Ebrom"), in view of Legaspi *et al.* (US 2012/0325197 - hereinafter "Legaspi").

Argument #1: Ebrom reference cannot serve as prior art

The Action is based on the Ebrom reference. Claim 1 rejection is based on Paragraphs 0006, 0014, 0313-0339, 1246, and 0237-0256, and Figures 1, 22, 34, and 35. Further, the rejection of claims 2-6 is based on paragraph 0178 of the Ebrom reference.

It is noted that the Ebrom reference (US 2016/0218884) was filed on Feb. 29, 2016, AFTER the priority date of the present application, **as a CIP**, clearly having a new matter, hence cannot be cited against the present application.

In section 6 on page 11 of the Action, it is stated that Figures 34-35 are the same as Figures 1, 2 of the Ebrom reference parent application 12/256,555 filed on 10/23/2008. While indeed these figures are the same, the other cited paragraphs and Figures, **for example** the cited Figures 1 and 22, and the cited paragraphs 0006, 0014, and 1246, DO NOT APPEAR in the cited parent application, and the Action does not point to any such citings in the parent application, rendering the rejection moot.

Argument #2: Improper rejection - Picking and choosing

The Ebrom reference includes 136 different Figures and 1317 paragraphs, describing multiple different and distinct embodiments. The rejection of claim 1 is based on combining features from Figures 1, 22, and 33-34, and various paragraphs, which are directed to different inventions and embodiments. For example, Figure 1 is described in paragraph 0042 as: "*FIG. 1 is a schematic view of a clock accessory for a communicating appliance according to one embodiment of this disclosure, wherein the clock communicates a time to appliances following powering the appliances down and up.*", Figure 22 is described in paragraph 0063 as: "*FIG. 22 is a schematic view of a central collector according to one embodiment of this disclosure for use with a communicating appliance.*", while Figure 34 is described in paragraph 0075 as: "*FIG. 34 is a schematic view of an appliance coupled to and comprising a consumable holder according to this disclosure.*". Hence, the rejection improperly 'pick, choose, and combine' between the different embodiments, and as such may not be combined as part of the rejection. As stated in MPEP 2141.02, "… *the examiner may not pick and choose elements from several references to support an obviousness determination*". *Further:*

> *When a prior art reference discloses multiple, distinct embodiments, combining teachings from those distinct embodiments requires an obviousness analysis, including a demonstration of why one of ordinary skill would be motivated to combine those disparate teachings." Symantec, at 20 (citing 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)).*

Argument #3: Improper rejection – Unclear conclusory rejection

The rejection is vague and unclear since it provides no more than copied passages from the references, combined

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with Examiner interpretation. It is not clear how claimed elements or features are equated to elements or features in the references. ""*when a rejection is so uninformative that it prevents the applicant from recognizing and seeking to counter the grounds for rejection" that the prima facie burden has not been met and the rejection violates the minimal requirements of 35 U.S.C. § 132*". Chester v. Miller, 906 F.2d 1574, 1578 (Fed. Cir. 1990).

Further, the rejection of claim 1 cites paragraphs 0313-0339, total of 27 paragraphs, and paragraphs 0237-0256, a total of 19 paragraphs, rendering the rejection conclusory and unclear. It is noted that "*When a reference is complex or shows or describes inventions other than that claimed by the applicant, the particular part relied on must be designated as nearly as practicable. The pertinence of each reference, if not apparent, must be clearly explained and each rejected claim specified.*" [See 37 C.F.R. § 1.104(c)(2)].

Argument #4: Non-analogous references.

The Action seems to state that the Ebrom and Legaspi references are analogous art being in the same field. However, the Action itself defines (in pages 11-12) the field of the Ebrom reference as "*methods and apparatus for communicatively coupling internal and external components and accessories with electrical appliances*", while the field of the Legaspi reference is defined as "*systems and methods for automation and control of the electrical appliances by communicatively coupling wireless switchboard module, communication device and the control knob unit on the appliance …*", which is different from the Ebrom provided field definition. Hence, it is admitted by the Action that the fields are different and thus the references are non-analogous and cannot be combined.

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Further, it is settled that "*A reference is reasonably pertinent to the problem at issue if it* ***"logically*** *would have commended itself to an inventor's attention in considering his problem.*"" *In re Clay*, 966 F .2d 656, 659 (Fed. Cir. 1992) (emphasis added). It is noted that "*communicatively coupling internal and external components*" involving external communication functionalities would not logically be pertinent to "*automation and control of the electrical appliances*" involving converting mechanical knob to an electrically controlled knob. Furthermore, the Legaspi reference is clearly directed to enhancing safety, while the Ebrom reference is directed to increase communication between devices.

Argument #3: Improper combination of the Ebrom and Legaspi references.

The rejection is based on that the recited features of "*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*" taught by the Legaspi reference are combined with the Ebrom reference, and the rejection conclusory states that "… *it would have been obvious … to combine the method*" of one reference with the features taught by the other reference.

a. However, it is not clear HOW the primary reference (Ebrom) reference is modified. For example, how and where are the additional limitations added, and are they added as a substitute or as an addition to the Ebrom described elements?. Similarly, it is not clear how the Ebrom system is modified to

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include this additional (or substitute) device. Hence, 35 U.S.C. § 132 section "*is violated when a rejection is so uninformative that it prevents the applicant from recognizing and seeking to counter the grounds for rejection.*" Chester v. Miller, 906 F.2d 1574, 1578 (Fed. Cir. 1990). [In re Jung, 637 F. 3d 1356, 1362 (Fed. Cir. 2011).].

b. Further, the Action is based on the wireless transceiver and antenna taught by the Legaspi reference. However, wireless communication is taught by the Ebrom reference, such as at least in paragraphs 0213-0214, 0226, and 0233. Hence such modification is clearly redundant, rendering the combination moot.

c. The Legaspi reference is combined for the missing limitations of "… *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***" (Emphasis added).

However, in the Action itself in section 6 on page 11, the Examiner states that '*Subcombination VII has a separate utility that is techniques for* ***implementing various network connected actuators*** …" (Emphasis added), and further states that the subcombinations "… *do not overlap in scope and* ***are not obvious variants,*** …" (Emphasis added). Hence the Action itself admits that combining the missing limitations from the Legaspi reference is not obvious.

Argument #4: Improper rationale for combination of the Ebrom and Legaspi references.

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

a. First, this rationale is not clear since the primary reference Ebrom is silent regarding any 'control knob' or regarding any gas or burners appliances. Second, the Legaspi reference focuses on automating a mechanical control of an appliance by electrically '*Positioning the control knob unit to an Off position*'. However, the Ebrom reference is silent regarding any mechanical control in general, and using any mechanical 'control knob' in particular. In contrast, the Ebrom reference teaches electronic control of appliances, rendering the advantage of automatically '*Positioning the control knob unit to an Off position*' moot - "*Where the secondary reference disclosed an advantage, but where none of the cited prior art references suggested that the primary reference could benefit from that advantage or was in need of that advantage*". [See, e.g., Ex parte Saiki, No. 2000-0373, 2002 WL 32102452, at *3 (B.P.A.I. Jan. 17, 2002); Ex parte Burak, No. 2004-0823, 2004 WL 4981768, at *4 (Dec. 8, 2004)].

Furthermore, such advantage is clearly redundant to the Ebrom reference, and it is noted that where the secondary reference disclosed an advantage, and where the primary

reference already possessed that advantage. [See, e.g., Ex parte Anttila & Jung, No. 2010-006328, 2012 WL 4718520, at *3 (B.P.A.I. Sept. 27, 2012); Kastelewicz, 2009 WL 1719394, at *5-7; Ex parte Levine, No. 2010-001240, 2012 WL 4483329, at *3 (B.P.A.I. Sept. 25, 2012)].

b. The Legaspi reference is relied upon also fort the limitation of "*a single enclosure housing the current sensor, the antenna, and the wireless transceiver*". The stated rationale is not relevant to this limitation, since the same advantage may be obtained using separate devices as indeed exampled by the Legaspi reference.
Positioning the control knob unit to an Off position causes the gas and/or electricity emanating from the appliances, such as from burners on a stove, to terminate.
c. It is trivial, inherent, and self-evident that <u>always</u> adding a feature A to any device results in a device having a capability of feature A. Similarly, it is trivial, inherent, and self-evident that <u>always</u> adding the functionality of '*automatically positioning a control knob unit to an Off position upon the occurrence of a safety event*' results in the rationale of '… *causes the gas and/or electricity emanating from the appliances, such as from burners on a stove, to terminate*.'. However, the Action fails to provide any reasoning WHY any such action is required to start with, in particular since the Ebrom reference does not involve any mechanical control, or any mentioning of '*gas and/or electricity emanating from the appliances*'. Hence, the rationale provides no link to the present application, as required in MPEP 2143 that clearly states that "*Any rationale employed must provide* ***a link between the factual findings and the legal conclusion of obviousness.***" (Emphasis added), and "…

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there must be "*some articulated reasoning with some rational underpinning" to support the Examiner's findings and conclusion of obviousness*". See KSR Inti Co. v. Teleflex Inc., 550 U.S. 401, 418 (2007). In particular, the primary reference that is modified by the Action is the Beliles reference. However, the Beliles reference is NOT disclosing any vehicle or vehicle elements, and is NOT disclosing any speed or speed control, rendering the rationale as moot.

d. It is noted that the claim a single network for **both** controlling or activating the appliance and transmitting data in response to the measured current. The rationale fails to suggest WHY the same network is used for both transmitting and receiving, as the advantage stated may equally be achieved by using two different networks.

Argument #5: Office admits that Ebrom does not teach a limitation

Claim 1 recites the limitation of "… *an AC connector for connecting the appliance to an AC power source*". In a final action dated May 13, 2019 in co-pending application 15/992,219, having the same specification and priority date and assigned to the same examiner), on the bottom of page 4 it is stated that: "*Ebrom does not explicitly discloser a first AC connector for connecting to the in-wall AC power cable, a second* ***AC connector for connecting the appliance to the AC power cable to be powered by the AC power,*** …" (Emphasis added). Hence the Office admits that this limitation is not disclosed by the Ebrom reference.

Argument #6: Ebrom does not teach a limitation

Claim 1 recites the limitation of … a current sensor coupled to the AC connector for measuring an AC current

consumed by the appliance". Regarding 'current sensor', the Action seems to be based on paragraphs 0313-0339 stating that: "… *the smart connector and process control apparatus B14 that comprises of sensors (e.g. current sensor).*". While these paragraph indeed mention the term 'sensors', these cited paragraphs are silent regarding any '*current sensor*' as recited. First, it is not inherent that a 'sensor' includes any electrical sensor in general, and current sensor in particular - "*The question of obviousness is "based on underlying factual determinations including ... what th[e] prior art teaches explicitly and inherently.*" [In re Zurko, 258 F.3d 1379, 1383 (Fed. Cir. 2001)], "*conclusory statement is insufficient to support obviousness*" [In re Nuvasive, Inc., 842 F.3d 1376, 1381-82 (Fed. Cir. 2016)], and "*[O]bviousness requires a suggestion of all limitations in a claim.*" [CFMT, Inc. v. Yieldup Int 'l Corp., 349 F.3d 1333, 1342 (Fed. Cir. 2003) (citing In re Royka, 490 F.2d 981, 985 (CCPA 1974))]. Further, it is noted that "*All words in a claim must be considered in judging the patentability of that claim against the prior art.*" In re Wilson, 424 F.2d 1382, 1385, 165 USPQ 494, 496 (CCPA 1970), and that according to MPEP: "*All Claim Limitations Must Be Considered*" (MPEP 2143.03).

Argument #7: No rationale provided for combination regarding claims 7-11

The Action relies upon the Legaspi reference regarding claims 7-11. However, the features recited in these claims are not relevant to the limitations and rationale relied upon in claim 1 rejection, and no other rationale is provided, hence there is no link to the present application, as required in MPEP 2143 that clearly states that "*Any rationale employed must provide* ***a link between the factual***

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findings and the legal conclusion of obviousness." (Emphasis added), and "… there must be "*some articulated reasoning with some rational underpinning" to support the Examiner's findings and conclusion of obviousness*". See KSR Inti Co. v. Teleflex Inc., 550 U.S. 401, 418 (2007). Furthermore, in a restriction requirement in this application, these dependent claims were declared as **distinct (different appliance) species**, hence further requiring a specific rationale for combining with the Legaspi reference.

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Conclusion

In conclusion, the rejection of claims 1-11 under 35 U.S.C. 103(a) should be cancelled, resulting allowance of the all pending claims. Attached hereto is an Appendix containing a copy of the claims involved in this appeal.

Respectfully submitted,

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

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Appendix A – Pending claims

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.

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

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

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

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

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

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

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

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

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

11. The appliance according to claim 7, wherein the electrically actuated switch is based on an electrical circuit that comprises an open collector transistor, an open drain transistor, a thyristor, a TRIAC, or an opto-isolator.

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:				
NOTICE OF APPEAL	2401	1	400	400
Post-Allowance-and-Post-Issuance:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Extension-of-Time:				
Miscellaneous:				
		Total in USD ($)		**400**

Electronic Acknowledgement Receipt	
EFS ID:	36439734
Application Number:	15992221
International Application Number:	
Confirmation Number:	8906
Title of Invention:	SYSTEM AND METHOD FOR SERVER BASED CONTROL
First Named Inventor/Applicant Name:	Yehuda BINDER
Customer Number:	131926
Filer:	Yehuda Binder/Dorit Binder
Filer Authorized By:	Yehuda Binder
Attorney Docket Number:	BINDER-014-US7
Receipt Date:	28-JUN-2019
Filing Date:	30-MAY-2018
Time Stamp:	04:33:23
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	DA
Payment was successfully received in RAM	$400
RAM confirmation Number	062819INTEFSW00007656506726
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	Notice of Appeal Filed	aia0031.pdf	236282 498be402b12926f7ee6629adf549759bda26a9a1	no	2
Warnings:					
Information:					
2	Appeal Brief Filed	6-2019-Appeal-Brief.pdf	76309 36198c54138deae4d924a7aa488713bc327be426	no	16
Warnings:					
Information:					
3	Fee Worksheet (SB06)	fee-info.pdf	30054 9538b43e5c96931628b80703c2cde4c5add5c54b	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	342645		

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

PTO/AIA/31 (03-14)
Approved for use through 07/31/2016. OMB 0651-0031
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NOTICE OF APPEAL FROM THE EXAMINER TO THE PATENT TRIAL AND APPEAL BOARD

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, on Alexandria, VA 22313-1450" [37 CFR 1.8(a)]

on _____.

Signature _____

Typed or printed name _____

In re Application of: Yehuda BINDER

Application Number	Filed
15/992,221	May 30, 2018

For: SYSTEM AND METHOD FOR SERVER BASED CONTROL

Art Unit	Examiner
2456	KHAN, HASSAN ABDUR-RAHMAN

Applicant hereby **appeals** to the Patent Trial and Appeal Board from the last decision of the examiner.

The fee for this Notice of Appeal is (37 CFR 41.20(b)(1)) $ _____

☑ Applicant asserts small entity status. See 37 CFR 1.27. Therefore, the fee shown above is reduced by 50%, and the resulting fee is: $ 400.00

☐ Applicant 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.

☐ A petition for an extension of time under 37 CFR 1.136(a) (PTO/AIA/22 or equivalent) is enclosed.
For extensions of time in reexamination proceedings, see 37 CFR 1.550.

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

☐ applicant

☑ 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 -972-544444577

Date 2019-06-28

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 _____ forms are submitted.

This collection of information is required by 37 CFR 41.20(b)(1) and 41.31. 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 1.11, 1.14 and 41.6. 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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The information provided by you in this form will be subject to the following routine uses:

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7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (*i.e.*, GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public 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 05/13/2019

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EXAMINER	
KHAN, HASSAN ABDUR-RAHMAN	

ART UNIT	PAPER NUMBER
2456	

MAIL DATE	DELIVERY MODE
05/13/2019	PAPER

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

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

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

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

Period for Reply

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

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

Status

1)☑ Responsive to communication(s) filed on 04/21/2019.

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

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

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

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

Disposition of Claims*

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

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

6) ☐ Claim(s) _____ is/are allowed.

7) ☑ Claim(s) 1-11 is/are rejected.

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

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

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

Application Papers

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

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

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

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

Priority under 35 U.S.C. § 119

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

Certified copies:

a)☐ All b)☐ Some** c)☐ None of the:

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

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

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

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

Attachment(s)

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

2) ☐ Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/SB/08b) Paper No(s)/Mail Date _____.

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

4) ☐ Other: _____.

DETAILED ACTION

Notice of Pre-AIA or AIA Status

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

2. Claims 1 – 64 are restricted.

3. Claims 1-11 have been examined and are pending.

Claim Rejections - 35 USC § 103

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

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

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

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

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

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

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

This application currently names joint inventors. In considering patentability of the claims the examiner presumes that the subject matter of the various claims was commonly owned as of the effective filing date of the claimed invention(s) absent any evidence to the contrary. Applicant is advised of the

obligation under 37 CFR 1.56 to point out the inventor and effective filing dates of each claim that was not commonly owned as of the effective filing date of the later invention in order for the examiner to consider the applicability of 35 U.S.C. 102(b)(2)(C) for any potential 35 U.S.C. 102(a)(2) prior art against the later invention.

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

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

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

a current sensor coupled to the AC connector for measuring an AC current consumed by the appliance, wherein the current sensor is coupled to the wireless transceiver for transmitting digital data

in response to the measured AC current to the wireless network; Ebrom discloses (in Figs. 34, 35 and ¶0313 – ¶0339) the smart connector and process control apparatus B14 that comprises of sensors (e.g. current sensor). Ebrom discloses (in ¶0237– ¶0256) a network connected energy controller and network connected appliances, where the energy controller can monitor the amount of energy used by each of the appliances, and can also control the operation of the appliances. A network connected smart connector provides power management functionalities (e.g. AC/DC conversion) and the ability to control the amount of power drawn through the smart connector by communicating digital sensor and control data to the energy controller .

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

an antenna for communication over the wireless network, a wireless transceiver coupled to the antenna for transmitting digital data to, and for receiving digital data from, the wireless network, and a single enclosure housing, the antenna, and the wireless transceiver, wherein the appliance is controlled or activated in response to digital data received from the wireless network; Legaspi teaches (in Figs. 1, 5 and ¶0058-¶0077) a cross-sectional view of a remote control knob unit 500 of a kitchen stove having a wireless receiver module 512. The remote control knob directly engaged with the operational shaft of the cooking appliance 104, the operational shaft of the appliance for opening and closing a gas control valve, a thermal control switch and/or power supply used to operate the appliance 104. A wireless switchboard module 106 is communicatively coupled between the remote control knob unit 102 on the appliance 104 and a communication device 108. The communication device 108 is utilized to activate the switchboard module 106 causing the switchboard module 106 to transmit a signal to the remote control

knob unit 102 which in turn may automatically turn or rotate the knob to the Off position. Located on the control knob is a decoder 503 compatible with an encoder of a transmitter module on a detector module or a transceiver. The decoder 503, when activated, provide power to a solenoid coil 505 of a solenoid locking mechanism 514, secured to the housing 504 of the remote control unit, through a power connector 507. The wireless receiver module 512 may receive a signal from a transmitter through a specified frequency and communicate with the decoder 503 to power on the relay 509. A receiver module antenna 511 is secured to the printed circuit board 502 to avoid obstruction to when rotating the control knob unit 500.

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

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

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

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

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

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

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

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

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

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

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

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

further comprising in the single enclosure an electrically actuated switch connected to switch electric power to at least part of the appliance, wherein the electrically actuated switch is coupled to the wireless transceiver for being activated in response to digital data received from the wireless network; Legaspi teaches (in Fig. 1 and ¶0058 - ¶0059) a wireless switchboard module 106

communicatively coupled between the remote control knob unit 102 on the appliance 104 and a communication device 108. The communication device 108 may be wired or wirelessly connected to the wireless switchboard module 106 a. The communication device 108 may be utilized to activate the switchboard module 106 causing the switchboard module 106 to transmit a signal to the remote control knob unit 102 which in turn may automatically turn or rotate the knob to the off position. As shown, a remote control knob unit 102 may be utilized to remotely operate a device, such as a cooking appliance 104. The remote control knob unit 102 may include a control knob directly engaged with the operational shaft of the cooking appliance 104, the operational shaft of the appliance for opening and closing a gas control valve, a thermal control switch and/or power supply used to operate the appliance 104.

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

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

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

wherein the electrically actuated switch is a latching or a non-latching type relay; Legaspi teaches (in Figs. 3-6 and ¶0014) that the locking mechanism may comprise a mechanism housing with a latching rod slidably disposed within the mechanism housing and movable between a first position and a

second position, wherein the latching rod engages the plurality of teeth of the sprocket when moved from the first position to the second position causing the sprocket to rotate, and a locking spring surrounding the latching rod and adapted to move the latching rod between the first and second positions, and a solenoid coil surrounding the locking spring and rotating, where an electrical current applied to the solenoid coil energizes the solenoid coil generating a magnetic field biasing the latching rod between the first and second positions.

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

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

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

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

Response to Arguments

Election/Restrictions

5. Applicant's arguments Applicant's arguments for their election with traverse (on 04/21/2019) of Claims 1-64 is acknowledged. In response to the updated restriction requirements the Applicant elects with traverse the Claims 1-11 over the phone on 01/08/2019. The restriction requirement is still deemed proper and is therefore made FINAL.

In reply to the applicant arguments filed on 04/21/2019, "*the restriction requirement does not explain WHY and HOW the defined subcombinations are Patentably Distinct From Each Other … the Action does not explain WHY the subcombinations are not obvious over each other as required according to MPEP*," the Examiner notes that Restriction for examination purposes as indicated, in section *Election/Restriction* of Non-Final Office Action mailed on 04/15/2019, is proper because all the inventions are independent or distinct for the reasons mentioned in the Non-Final Office Action, and further there would be a serious search and examination burden if restriction were not required, because one or more of the following reasons: the inventions have acquired a separate status in the art in view of their different classification, the inventions have acquired a separate status in the art due to their recognized divergent subject matter and the inventions require a different field of search (for example, searching different classes/subclasses or electronic resources, or employing different search queries), the prior art applicable to one invention would not likely be applicable to another invention and the inventions are likely to raise different non-prior art issues under 35 U.S.C. 101 and/or 35 U.S.C. 112, first paragraph. The Examiner notes that the restriction clearly states above that subcombinations are distinct as they do not overlap in scope and are not obvious variants. The Subcombination I has separate utility such as implementing network connected actuators within electric powered appliances. Subcombination II has separate utility that is techniques for measurement of electrical current using the current sensor. Subcombination III has

separate utility that is techniques for measurement of electrical power using the wattmeter. Subcombination IV has separate utility that is techniques for implementing various communication networks for transmission of digital information. Subcombination V has separate utility that is techniques for coupling various sensors that generate an output responding to physical phenomenon. Subcombination VI has separate utility that is drawn to techniques for emitting visible or non-visible light. Subcombination VII has separate utility that is techniques for implementing various network connected actuators. See MPEP § 806.05(d). The Examiner notes that the restriction clearly states above that the Inventions I - VII were presented by the applicant and disclosed as related subcombinations usable together in a single combination. Instead, these subcombinations are distinct as they do not overlap in scope and are not obvious variants, and that at least one subcombination is separately usable. The Examiner has required restriction between subcombinations.

Claim Rejections - 35 USC § 103

6. Applicant's arguments and amendments, filed on 04/21/2019 with respect to Claims 1-11 have been fully considered and the 35 USC § 103 rejection is maintained.

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

In response to applicant argument, *"the references are not analogous to one another and cannot logically be combined … the rationale is not clear since the primary reference Ebrom is silent regarding any control knob or regarding any gas or burners appliances,"* the Office notes that Ebrom reference teaches methods and apparatus for communicatively coupling internal and external components and accessories with electrical appliances (¶0006) and the Legaspi reference teaches systems and methods for

automation and control of the electrical appliances (¶0002) by communicatively coupling wireless switchboard module, communication device and the control knob unit on the appliance to improve the safely capabilities for appliances or other devices.

Conclusion

7. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a). A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action. 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 1

U.S. PATENT DOCUMENTS

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

FOREIGN PATENT DOCUMENTS

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

NON-PATENT DOCUMENTS

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

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

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

CPC - Searched*		
Symbol	**Date**	**Examiner**
H04L67/12,B60K31/00,B60K31/18,B60Y2200/11,B60Y2200/12, B60Y2200/126,B60Y2200/13,B60Y2200/30,B60Y2200/40,B60Y2200/50 ,B60Y2200/90,G01C21/00,G06Q2240/00,G07C5/008,G08G1/00 (combined with text search)	09/21/2018	H.K.
H04L67/12,B60K31/00,B60K31/18,B60Y2200/11,B60Y2200/12, B60Y2200/126,B60Y2200/13,B60Y2200/30,B60Y2200/40,B60Y2200/50 ,B60Y2200/90,G01C21/00,G06Q2240/00,G07C5/008,G08G1/00 (combined with text search)	01/11/2019	H.K.
H04L67/12,B60K31/00,B60K31/18,B60Y2200/11,B60Y2200/12, B60Y2200/126,B60Y2200/13,B60Y2200/30,B60Y2200/40,B60Y2200/50 ,B60Y2200/90,G01C21/00,G06Q2240/00,G07C5/008,G08G1/00 (combined with text search)	04/09/2019	H.K.
H04L67/12,B60K31/00,B60K31/18,B60Y2200/11,B60Y2200/12, B60Y2200/126,B60Y2200/13,B60Y2200/30,B60Y2200/40,B60Y2200/50 ,B60Y2200/90,G01C21/00,G06Q2240/00,G07C5/008,G08G1/00 (combined with text search)	05/06/2019	H.K.

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

US Classification - Searched*			
Class	**Subclass**	**Date**	**Examiner**
709	218 (combined with text search)	09/21/2018	H.K.
709	218 (combined with text search)	01/11/2019	H.K.
709	218 (combined with text search)	04/09/2019	H.K.
709	218 (combined with text search)	05/06/2019	H.K.

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

	/HASSAN A KHAN/ Examiner, Art Unit 2456

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.
EAST search history (see attached)	01/11/2019	H.K.
Consulted with SPE Philip Chea on Restriction	04/08/2019	H.K.
Consulted with Technology Director Office on Restriction	12/18/2018	H.K.
Inventor search conducted (see EAST search history)	04/09/2019	H.K.
Assignee search conducted (see EAST search history)	04/09/2019	H.K.
EAST search history (see attached)	04/09/2019	H.K.
Inventor search conducted (see EAST search history)	05/06/2019	H.K.
Assignee search conducted (see EAST search history)	05/06/2019	H.K.
EAST search history (see attached)	05/06/2019	H.K.

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

	/HASSAN A KHAN/ Examiner, Art Unit 2456

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

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

CLAIMS

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

CLAIM		DATE								
Final	Original	08/15/2018	09/21/2018	01/11/2019	04/09/2019	05/06/2019				
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	2	÷	N	✓	✓	✓				
	3	÷	N	✓	✓	✓				
	4	÷	N	✓	✓	✓				
	5	÷	N	✓	✓	✓				
	6	÷	N	✓	✓	✓				
	7	÷	✓	✓	✓	✓				
	8	÷	N	✓	✓	✓				
	9	÷	✓	✓	✓	✓				
	10	÷	✓	✓	✓	✓				
	11	÷	N	✓	✓	✓				
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	13	÷	N	N	N	N				
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	38	÷	N	N	N	N				
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	41	÷	N	N	N	N				
	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**
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CLAIM		DATE								
Final	Original	08/15/2018	09/21/2018	01/11/2019	04/09/2019	05/06/2019				
	43	÷	N	N	N	N				
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	49	÷	N	N	N	N				
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	61	÷	N	N	N	N				
	62	÷	N	N	N	N				
	63	÷	N	N	N	N				
	64	÷	N	N	N	N				

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L12	5775	709/218.ccls.	US-PGPUB; USPAT	OR	ON	2019/05/06 16:21
L13	19169	H04L67/12.cpc.	US-PGPUB; USPAT	OR	ON	2019/05/06 16:21
L14	115490	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	2019/05/06 16:21
L15	52	(maytal and benjamin).in.	US-PGPUB; USPAT	OR	ON	2019/05/06 16:21
L16	416	(binder and yehuda).in.	US-PGPUB; USPAT	OR	ON	2019/05/06 16:21
L17	67	(may and patents).aanm.	US-PGPUB; USPAT	OR	ON	2019/05/06 16:21
L18	49	(may and patents).as.	US-PGPUB; USPAT	OR	ON	2019/05/06 16:21
L19	457	L15 L16 L17 L18	US-PGPUB; USPAT	OR	ON	2019/05/06 16:21
L20	138635	L12 or L13 or L14 or L19	US-PGPUB; USPAT	OR	ON	2019/05/06 16:21
L21	5	L20 and (relay with solenoid with reed).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/05/06 16:21
S1	1	"13733634"	US-PGPUB; USPAT	ADJ	ON	2016/12/03 01:33
S2	7358	(actuator with sensor with network)	US-PGPUB; USPAT	ADJ	ON	2016/12/03 01:34
S3	161	(actuator with sensor with network with router)	US-PGPUB; USPAT	ADJ	ON	2016/12/03 01:34
S4	14	(actuator with sensor with network with router with (car or vehicle))	US-PGPUB; USPAT	ADJ	ON	2016/12/03 01:34
S5	1020	(actuator with sensor with network with (car or vehicle))	US-PGPUB; USPAT	ADJ	ON	2016/12/03 01:37
S6	535	S5 and (router or routing)	US-PGPUB; USPAT	ADJ	ON	2016/12/03 01:38
S7	147	S5 and (NAT or DHCP)	US-PGPUB; USPAT	ADJ	ON	2016/12/03 01:38
S8	54	S5 and (control adj2 logic)	US-PGPUB; USPAT	ADJ	ON	2016/12/03 01:39

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

S712	1	"15992221"	US-PGPUB; USPAT	OR	ON	2019/01/11 13:47
S713	4	"11930299"	US-PGPUB; USPAT	OR	ON	2019/01/11 13:49
S714	1	(US-20080130520-$).did.	US-PGPUB	OR	ON	2019/01/11 13:49
S715	3	"12256555"	US-PGPUB	OR	ON	2019/01/11 14:11
S716	1	(US-20130235197-$).did.	US-PGPUB	OR	ON	2019/01/11 14:12
S717	5774	709/218.ccls.	US-PGPUB; USPAT	OR	ON	2019/01/11 16:17
S718	17742	H04L67/12.cpc.	US-PGPUB; USPAT	OR	ON	2019/01/11 16:17
S719	108919	B60K 31/00.cpc. B60K 31/18.cpc. B60Y2200/11.cpc. B60Y2200/12.cpc. B60Y2200/126.cpc. B60Y2200/13.cpc. B60Y2200/30.cpc. B60Y2200/40.cpc. B60Y2200/50.cpc. B60Y2200/90.cpc. G01C 21/00.cpc. G06Q2240/00.cpc. G07C 5/008.cpc. G08G 1/00.cpc.	US-PGPUB; USPAT	OR	ON	2019/01/11 16:17
S720	49	(maytal and benjamin).in.	US-PGPUB; USPAT	OR	ON	2019/01/11 16:17
S721	408	(binder and yehuda).in.	US-PGPUB; USPAT	OR	ON	2019/01/11 16:17
S722	64	(may and patents).aanm.	US-PGPUB; USPAT	OR	ON	2019/01/11 16:17
S723	48	(may and patents).as.	US-PGPUB; USPAT	OR	ON	2019/01/11 16:17
S724	448	S720 S721 S722 S723	US-PGPUB; USPAT	OR	ON	2019/01/11 16:17
S725	130841	S717 or S718 or S719 or S724	US-PGPUB; USPAT	OR	ON	2019/01/11 16:17
S726	5	S725 and (relay with solenoid with reed).clm.	US-PGPUB; USPAT	OR	ON	2019/01/11 16:17
S727	5775	709/218.ccls.	US-PGPUB; USPAT	OR	ON	2019/04/09 16:21
S728	18833	H04L67/12.cpc.	US-PGPUB; USPAT	OR	ON	2019/04/09 16:21
S729	113966	B60K 31/00.cpc. B60K 31/18.cpc. B60Y2200/11.cpc. B60Y2200/12.cpc. B60Y2200/126.cpc. B60Y2200/13.cpc. B60Y2200/30.cpc. B60Y2200/40.cpc. B60Y2200/50.cpc. B60Y2200/90.cpc. G01C 21/00.cpc. G06Q2240/00.cpc. G07C 5/008.cpc. G08G 1/00.cpc.	US-PGPUB; USPAT	OR	ON	2019/04/09 16:21
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	136815	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

EAST Search History (Interference)

< This search history is empty>

5/ 6/ 2019 4:23:46 PM
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	)	April 21, 2019
	)	

AMENDMENT:

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

Sir:

In response to the examiner's action dated April 15, 2019 (hereinafter the "**Action**"), kindly amend the above-identified application as follows:

Remarks / Comments begin on page **2** of this paper.

REMARKS / COMMENTS

The examiner's action dated April 15, 2019 ("Action"), has been received and its contents carefully noted.

Regarding sections 5-8 of the Action

The restriction requirement is TRAVERSED, due to at least the following reasons.

First, the Action on section 5 is based on PCT Rule 13.1. This is not clear, since this application is a continuation of another US application and PCT rules do not apply to this application.

Second, the MPEP §806.04(h) explicitly recites that "*Species Must Be Patentably Distinct From Each Other*". The restriction requirement **does not explain WHY and HOW the defined subcombinations are *Patentably Distinct From Each Other*.** The traversal is based on that the restriction is based on conclusory statement and boilerplate paragraphs, preventing the applicant from recognizing and seeking to counter the restriction ground. ""*when a rejection is so uninformative that it prevents the applicant from recognizing and seeking to counter the grounds for rejection" that the prima facie burden has not been met and the rejection violates the minimal requirements of 35 U.S.C. § 132*". Chester v. Miller, 906 F.2d 1574, 1578 (Fed. Cir. 1990). Further, it is not clear WHY 'the inventions are distinct, each from the other', and WHY the invention/species are '*independent or distinct*', and WHY there is '*a serious search and/or examination burden*'.

Further, the Action does not explain WHY the subcombinations are not obvious over each other as required according to MPEP 803(II): "*If there is an express admission that the claimed inventions would have been obvious over each*

other within the meaning of 35 U.S.C. 103, restriction should not be required". In re Lee, 199 USPQ 108(Comm'r Pat. 1978).

Office Action, section 10 pages 7-11

Claims 1-11 are rejected under pre-AIA 35 U.S.C. 103 as being unpatentable over Ebron *et al.* (US 2016/0218884 - hereinafter "Ebron"), in view of Legaspi (US 2012/0325197 - hereinafter "Legaspi").

Improper reference

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

Regarding combining references.

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

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

Regarding rationale for combining with Legaspi

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

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

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

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

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

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

Respectfully submitted,

By /Yehuda Binder/
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Amazon EX1003 Page 679

Electronic Acknowledgement Receipt	
EFS ID:	35783399
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:	21-APR-2019
Filing Date:	30-MAY-2018
Time Stamp:	10:24:34
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		40G-Non-Final-OA-Response.pdf	40151 a6ce308c721f627828f648622cfdc53422a056d6	yes	5

	Multipart Description/PDF files in .zip description		
	Document Description	**Start**	**End**
	Amendment/Req. Reconsideration-After Non-Final Reject	1	1
	Applicant Arguments/Remarks Made in an Amendment	2	5
Warnings:			
Information:			
	Total Files Size (in bytes):	40151	

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

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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 04/15/2019

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Ramat-Gan, 5217102
ISRAEL

EXAMINER	
KHAN, HASSAN ABDUR-RAHMAN	

ART UNIT	PAPER NUMBER
2456	

MAIL DATE	DELIVERY MODE
04/15/2019	PAPER

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

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

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

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

Period for Reply

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

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

Status

1)☑ Responsive to communication(s) filed on 1/28/2019.

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

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

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

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

Disposition of Claims*

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

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

6) ☐ Claim(s) _____ is/are allowed.

7) ☑ Claim(s) 1-11 is/are rejected.

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

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

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

Application Papers

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

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

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

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

Priority under 35 U.S.C. § 119

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

Certified copies:

a)☐ All b)☐ Some** c)☐ None of the:

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

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

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

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

Attachment(s)

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

2) ☐ Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/SB/08b) Paper No(s)/Mail Date _____.

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

4) ☐ Other: _____.

DETAILED ACTION

Notice of Pre-AIA or AIA Status

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

2. Claims 1 – 64 are restricted.

3. Claims 1- 64 are pending.

Petition Decision and Election/Restrictions

4. In response to the petition filed on 01/28/2019, the decision on the petition is GRANTED-IN-PART on 03/27/2019, and thereafter a new non-final Office action including a complete restriction requirement is presented. In response to the updated restriction requirements the Applicant elected (with traverse) the invention group with Claims 1 – 11 over the phone on 01/08/2019. This is a Non-Final Rejection.

Election/Restrictions

5. Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group 1, claims(s) 1-11, drawn to implement network connected electrically actuated switches within electric powered appliances, classified in H04L67/12.

Group 2, claims(s) 12-14, drawn to techniques for measurement of electrical current using the current sensor, classified in G01R.

Group 3, claims(s) 15-19, drawn to techniques for measurement of electrical power using the wattmeter, classified in G01R21/006.

Group 4, claims(s) 20-31 and 61-64, drawn to techniques for implementing various communication networks for digital information transmission, classified in H04B, H04L, H04Q and H04W.

Group 5, claims(s) 32-50, drawn to techniques for coupling various sensors that generate an output responding to physical phenomenon, classified in G08B.

Group 6, claims(s) 51-53, drawn to techniques for emitting visible or non-visible light, classified in H01J9/2274.

Group 7, claims(s) 54-60, drawn to techniques for implementing various network connected actuators, classified in H01L41/09.

6. Inventions I - VII are disclosed as related subcombinations usable together in a single combination. Instead, these subcombinations are distinct as they do not overlap in scope and are not obvious variants, and that at least one subcombination is separately usable. In the instant case, subcombination I has separate utility such as implementing network connected actuators within electric powered appliances. Subcombination II has separate utility that is techniques for measurement of electrical current using the current sensor. Subcombination III has separate utility that is techniques for measurement of electrical power using the wattmeter. Subcombination IV has separate utility that is techniques for implementing various communication networks for transmission of digital information. Subcombination V has separate utility that is techniques for coupling various sensors that generate an output responding to physical phenomenon. Subcombination VI has separate utility that is drawn to techniques for emitting visible or non-visible light. Subcombination VII has separate utility that is techniques for implementing various network connected actuators. See MPEP § 806.05(d).

The Examiner has required restriction between subcombinations, where applicant elects a subcombination and claims thereto are subsequently found allowable, any claim(s) depending from or otherwise requiring all the limitations of the allowable subcombination will be examined for patentability in accordance with 37 CFR 1.104. See MPEP § 821.04(a). Applicant is advised that if any claim presented in a continuation or divisional application is anticipated by, or includes all the limitations of, a claim that is allowable in the present application, such claim may be subject to provisional statutory and/or nonstatutory double patenting rejections over the claims of the instant application.

7. Restriction for examination purposes as indicated is proper because all these inventions listed in this action are independent or distinct for the reasons given above and there would be a serious search and examination burden if restriction were not required because one or more of following reasons apply:

(a) the inventions have acquired a separate status in the art in view of their different classification;

(b) the inventions have acquired a separate status in the art due to their recognized divergent subject matter;

(c) the inventions require a different field of search (for example, searching different classes/subclasses or electronic resources, or employing different search queries);

(d) the prior art applicable to one invention would not likely be applicable to another invention;

(e) the inventions are likely to raise different non-prior art issues under 35 U.S.C. 101 and/or 35 U.S.C. 112, first paragraph.

Applicant is advised that the reply to this requirement to be complete must include (i) an election of a invention to be examined even though the requirement may be traversed (37 CFR 1.143) **and (ii) identification of the claims encompassing the elected invention**.

The election of an invention may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out

supposed errors in the restriction requirement, the election shall be treated as an election without traverse. Traversal must be presented at the time of election in order to be considered timely. Failure to timely traverse the requirement will result in the loss of right to petition under 37 CFR 1.144. If claims are added after the election, applicant must indicate which of these claims are readable on elected invention.

Should applicant traverse on the ground that the inventions are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

8. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Priority

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

Drawings

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

Information Disclosure Statement

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

Claim Rejections - 35 USC § 103

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

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

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

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

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

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

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

This application currently names joint inventors. In considering patentability of the claims the examiner presumes that the subject matter of the various claims was commonly owned as of the effective filing date of the claimed invention(s) absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and effective filing dates of each claim that was

not commonly owned as of the effective filing date of the later invention in order for the examiner to consider the applicability of 35 U.S.C. 102(b)(2)(C) for any potential 35 U.S.C. 102(a)(2) prior art against the later invention.

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

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

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

a current sensor coupled to the AC connector for measuring an AC current consumed by the appliance, wherein the current sensor is coupled to the wireless transceiver for transmitting digital data in response to the measured AC current to the wireless network; Ebrom discloses (in Figs. 34, 35 and

¶0313 – ¶0339) the smart connector and process control apparatus B14 that comprises of sensors (e.g. current sensor). Ebrom discloses (in ¶0237– ¶0256) a network connected energy controller and network connected appliances, where the energy controller can monitor the amount of energy used by each of the appliances, and can also control the operation of the appliances. A network connected smart connector provides power management functionalities (e.g. AC/DC conversion) and the ability to control the amount of power drawn through the smart connector by communicating digital sensor and control data to the energy controller .

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

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

control knob is a decoder 503 compatible with an encoder of a transmitter module on a detector module or a transceiver. The decoder 503, when activated, provide power to a solenoid coil 505 of a solenoid locking mechanism 514, secured to the housing 504 of the remote control unit, through a power connector 507. The wireless receiver module 512 may receive a signal from a transmitter through a specified frequency and communicate with the decoder 503 to power on the relay 509. A receiver module antenna 511 is secured to the printed circuit board 502 to avoid obstruction to when rotating the control knob unit 500.

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

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

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

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

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

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

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

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

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

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

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

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

further comprising in the single enclosure an electrically actuated switch connected to switch electric power to at least part of the appliance, wherein the electrically actuated switch is coupled to the wireless transceiver for being activated in response to digital data received from the wireless network; Legaspi teaches (in Fig. 1 and ¶0058 - ¶0059) a wireless switchboard module 106 communicatively coupled between the remote control knob unit 102 on the appliance 104 and a

communication device 108. The communication device 108 may be wired or wirelessly connected to the wireless switchboard module 106 a. The communication device 108 may be utilized to activate the switchboard module 106 causing the switchboard module 106 to transmit a signal to the remote control knob unit 102 which in turn may automatically turn or rotate the knob to the off position. As shown, a remote control knob unit 102 may be utilized to remotely operate a device, such as a cooking appliance 104. The remote control knob unit 102 may include a control knob directly engaged with the operational shaft of the cooking appliance 104, the operational shaft of the appliance for opening and closing a gas control valve, a thermal control switch and/or power supply used to operate the appliance 104.

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

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

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

wherein the electrically actuated switch is a latching or a non-latching type relay; Legaspi teaches (in Figs. 3-6 and ¶0014) that the locking mechanism may comprise a mechanism housing with a latching rod slidably disposed within the mechanism housing and movable between a first position and a second position, wherein the latching rod engages the plurality of teeth of the sprocket when moved from

the first position to the second position causing the sprocket to rotate, and a locking spring surrounding the latching rod and adapted to move the latching rod between the first and second positions, and a solenoid coil surrounding the locking spring and rotating, where an electrical current applied to the solenoid coil energizes the solenoid coil generating a magnetic field biasing the latching rod between the first and second positions.

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

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

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

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

Response to Arguments

Election/Restrictions

13. Applicant's arguments for their election with traverse (on 10/03/2018) of Claims 1-64 is acknowledged. In response to the petition filed on 1/28/2019, the decision on the petition is GRANTED-IN-PART on 3/27/2019. In response to the updated restriction requirements the Applicant elects Claims 1-11 over the phone on 01/08/2019. The traversal is on the ground(s) mentioned below in the applicant arguments as filed on 09/13/2018, however these are not found persuasive, as noted below in the detailed reply. This is a Non-Final Rejection. The restriction requirement is still deemed proper and is therefore made FINAL.

In reply to the applicant arguments filed on 09/13/2018, "*it is not clear if the restriction is based on subcombinations usable together or on 'patentably distinct inventions, further, it is not clear WHY the inventions are distinct, each from the other, WHY some species are patentably distinct species and WHY the invention/species are independent or distinct, and WHY there is a serious search and/or examination burden*," the Examiner notes that Restriction for examination purposes as indicated is proper because all these inventions listed in this action are independent or distinct for the reasons mentioned in section *Election/Restriction*, and further there would be a serious search and examination burden if restriction were not required, because one or more of the following reasons: the inventions have acquired a separate status in the art in view of their different classification, the inventions have acquired a separate status in the art due to their recognized divergent subject matter and the inventions require a different field of search (for example, searching different classes/subclasses or electronic resources, or employing different search queries), the prior art applicable to one invention would not likely be applicable to another invention and the inventions are likely to raise different non-prior art issues under 35 U.S.C. 101 and/or 35 U.S.C. 112, first paragraph.

In reply to the applicant arguments filed on 09/13/2018, "*the restriction provides no explanation WHY the subcombinations are 'not obvious variants' as required by the MPEP*," the Examiner notes that the restriction clearly states above that subcombinations are distinct as they do not overlap in scope and are not obvious variants. The Subcombination I has separate utility such as implementing network connected actuators within electric powered appliances. Subcombination II has separate utility that is techniques for measurement of electrical current using the current sensor. Subcombination III has separate utility that is techniques for measurement of electrical power using the wattmeter. Subcombination IV has separate utility that is techniques for implementing various communication networks for transmission of digital information. Subcombination V has separate utility that is techniques for coupling various sensors that generate an output responding to physical phenomenon. Subcombination VI has separate utility that is drawn to techniques for emitting visible or non-visible light. Subcombination VII has separate utility that is techniques for implementing various network connected actuators. See MPEP § 806.05(d).

In reply to the applicant arguments filed on 09/13/2018, "*the restriction states that the subcombinations are usable together in a single combination*," the Examiner notes that the restriction clearly states above that the Inventions I - VII were presented by the applicant and disclosed as related subcombinations usable together in a single combination. Instead, these subcombinations are distinct as they do not overlap in scope and are not obvious variants, and that at least one subcombination is separately usable. The Examiner has required restriction between subcombinations.

In reply to the applicant arguments filed on 09/13/2018, "*restriction requirement fails to show the MPEP 806.05(d) requirement that two-way distinctness and reasons for insisting on restriction are necessary*," the Examiner notes that restriction for examination purposes as indicated is proper because all these subcombination inventions listed in this action are distinct for the reasons given above and there would be a serious search and examination burden if restriction were not required because one or more

of following reasons apply: (a) the inventions have acquired a separate status in the art in view of their different classification; (b) the inventions have acquired a separate status in the art due to their recognized divergent subject matter; (c) the inventions require a different field of search (for example, searching different classes/subclasses or electronic resources, or employing different search queries); (d) the prior art applicable to one invention would not likely be applicable to another invention; (e) the inventions are likely to raise different non-prior art issues under 35 U.S.C. 101 and/or 35 U.S.C. 112, first paragraph.

In reply to the applicant arguments filed on 09/13/2018, "*the restriction requirement fails to show according to MPEP 806.05(d) that the subcombinations has utility other than in the disclosed combination*," the Examiner notes that it is clearly noted above that the Subcombination I has separate utility such as implementing network connected actuators within electric powered appliances. Subcombination II has separate utility that is techniques for measurement of electrical current using the current sensor. Subcombination III has separate utility that is techniques for measurement of electrical power using the wattmeter. Subcombination IV has separate utility that is techniques for implementing various communication networks for transmission of digital information. Subcombination V has separate utility that is techniques for coupling various sensors that generate an output responding to physical phenomenon. Subcombination VI has separate utility that is drawn to techniques for emitting visible or non-visible light. Subcombination VII has separate utility that is techniques for implementing various network connected actuators. See MPEP § 806.05(d).

In reply to the applicant arguments filed on 09/13/2018, "*restriction requirement does not explain WHY and HOW the defined species are Patentably Distinct From Each Other*," the Examiner notes that it is clearly noted above that the Subcombination I has separate utility such as implementing network connected actuators within electric powered appliances. Subcombination II has separate utility that is techniques for measurement of electrical current using the current sensor. Subcombination III has separate utility that is techniques for measurement of electrical power using the wattmeter.

Subcombination IV has separate utility that is techniques for implementing various communication networks for transmission of digital information. Subcombination V has separate utility that is techniques for coupling various sensors that generate an output responding to physical phenomenon. Subcombination VI has separate utility that is drawn to techniques for emitting visible or non-visible light. Subcombination VII has separate utility that is techniques for implementing various network connected actuators. See MPEP § 806.05(d).

In reply to the applicant arguments filed on 09/13/2018, "*restricting 64 claims to 17 different inventions and 44 combinations, each combination includes no more than 3 claims is an abuse of discretion of the restriction mechanism, intended only to reduce serious burden, in particular in view of the excessive claims fees*," the Examiner notes that in response to the petition filed on 10/02/2018, the 64 claims are restricted to distinct 7 inventions. The requirement deemed proper and therefore made FINAL.

Claim Rejections - 35 USC § 112

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

Claim Rejections - 35 USC § 101

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

Claim Rejections - 35 USC § 103

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

In response to applicant argument, *"the rejection is vague and unclear since it provides no more*

than copies passages from the references," the Office notes that the combination of the references teaches each and every limitation CLEARLY and with DISTINCT citation to the references. For specific questions on the mapping of a certain feature or element, the applicant can contact the Office.

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

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

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

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