



# UNITED STATES PATENT AND TRADEMARK OFFICE

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

| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR   | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|------------------------|---------------------|------------------|
| 18/424,557      | 01/26/2024  | Samuel Redmond D'Amico | IMPU-001USC1        | 7692             |

162143 7590 09/16/2024  
GOODWIN PROCTER LLP/SILICON VALLEY  
PATENT ADMINISTRATOR  
100 NORTHERN AVENUE  
BOSTON, MA 02210

|          |
|----------|
| EXAMINER |
|----------|

FANTU, YALKEW

|          |              |
|----------|--------------|
| ART UNIT | PAPER NUMBER |
|----------|--------------|

2859

|                   |               |
|-------------------|---------------|
| NOTIFICATION DATE | DELIVERY MODE |
|-------------------|---------------|

09/16/2024

ELECTRONIC

**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.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

JGoodwin@goodwinlaw.com  
TFRANKLIN@GOODWINLAW.COM  
US-PatentBos@goodwinlaw.com



## DETAILED ACTION

### *Notice of Pre-AIA or AIA Status*

The present application, filed on or after March 16, 2013, is being examined under the first inventor to file provisions of the AIA. As per the remarks of 08/14/2024, applicant cancelled claims 1-20 and add new claims 21-40 that are different in scope to co-pending application 18/095,817 in order to overcome the Statutory type double patenting rejections (DP); hence the previous DP have been withdrawn.

### *Claim Rejections - 35 USC § 102*

In the event the determination of the status of the application as subject to AIA 35 U.S.C. 102 and 103 (or as subject to pre-AIA 35 U.S.C. 102 and 103) is incorrect, any correction of the statutory basis for the rejection will not be considered a new ground of rejection if the prior art relied upon, and the rationale supporting the rejection, would be the same under either status.

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

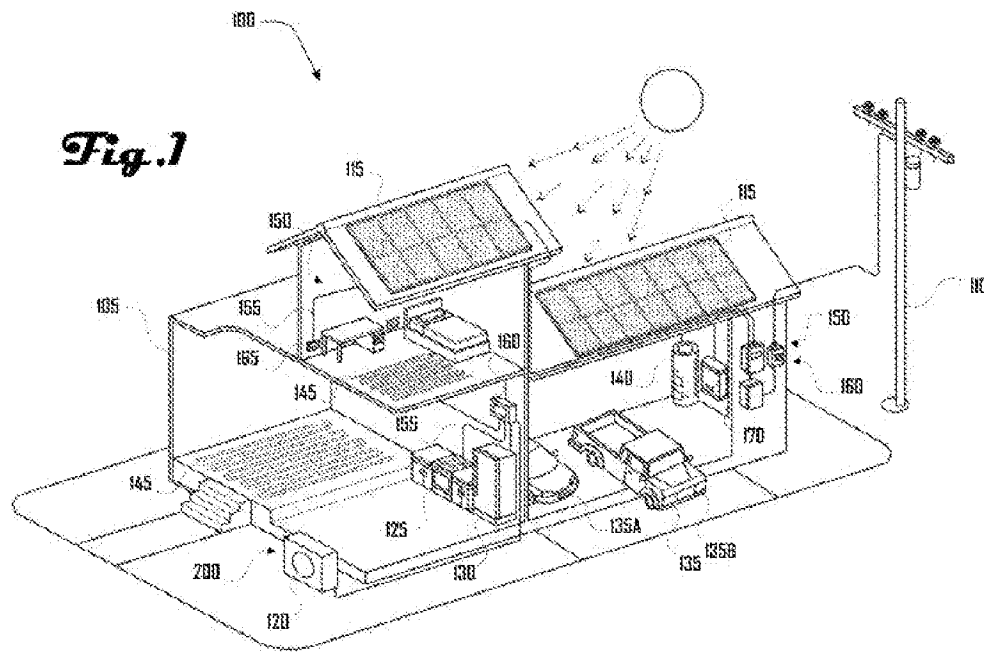
A person shall be entitled to a patent unless –

(a)(1) the claimed invention was patented, described in a printed publication, or in public use, on sale, or otherwise available to the public before the effective filing date of the claimed invention.

Claims 1-20 are rejected under 35 U.S.C. 102(a1) as being anticipated by Griffith et al. (US 2022/0344941).

**With respect to claims 1, 12 and 16**, Griffith et al, (Hereinafter, Griffith) discloses a system for intelligent power management (**Para. # 0003; see reproduced Fig. 1 drawing**), comprising: an appliance (**Fig. 2; Para. # 0036-0037**); a battery module

coupled to the appliance (**Para. # 0041 and 0050**, the battery module being configured to provide power to the appliance (**Para. # 0052**); a bidirectional converter coupled to the appliance and the battery module by a power bus (**Para. # 0108**), the directional converter converting between alternating current (AC) and direct current (DC) and interfacing with a power infrastructure external to the appliance (**Para. # 0127**); and a control unit communicatively coupled to the battery module, the bidirectional converter, and the appliance, the control unit being configured to determine a charge and discharge schedule for the battery module (**Para. # 0104, 0100 and 0101**).



**With respect to claim 2**, Griffith discloses the system of claim 1 as described above, wherein the battery module is coupled to the appliance by integrating into the appliance (**Para. # 0045**).

**With respect to claims 3 and 5**, Griffith discloses the system as described above, wherein the battery module provides power to the appliance according to the determined charge and discharge schedule (**Para. # 0070 and 0048**).

**With respect to claims 4 and 5**, Griffith discloses the system as described above, wherein the control unit is further configured to determine a power usage pattern of the appliance and a power supply pattern of the power infrastructure for providing power to the battery module (**Para. # 0037, 0038 and 0096**).

**With respect to claims 6, 14 and 15**, Griffith discloses the system as described above, further comprising one or more sensors or third-party services coupled to the control unit and configured to collect contextual information related to one or more of the battery modules or the appliance (**Para. # 0098, 0120**).

**With respect to claim 7**, Griffith discloses the system as described above, wherein the control unit further comprises a machine learning model trained to predict a usage of the appliance at a time point based on the collected contextual information (**Para. # 0037, 0038 and 0096: battery management intelligence to balance how and when electricity is pulled**).

**With respect to claims 8, 13 and 17**, Griffith discloses the system as described above, wherein the control unit is further configured to adjust the determined schedule based on the collected contextual information (**Para. # 0086 and 0070**).

**With respect to claim 9**, Griffith discloses the system as described above, further comprising a physical user interface configured to receive a user input for manually editing the charge and discharge schedule for the battery module at a time point (**Para. # 0089 and 0098**).

**With respect to claim 10**, Griffith discloses the system as described above, wherein the appliance comprises two or more appliances, and the battery module

comprises two or more battery modules, and at least two of the two or more appliances are coupled to the two or more battery modules (**Para. # 0121, 0123- 0124 and 0136**).

**With respect to claims 11 and 18-20**, Griffith discloses the system as described above, wherein the control unit is further configured to redistribute power stored in the two or more battery modules by providing power to an appliance from a battery module not directly coupled to the appliance (**Para. # 0040**: in various embodiments load sources **200** can be respectively associated with a battery **305** and/or battery system **300** (See e.g., FIGS. 3a, 3b and 3c); however, in some embodiments, the powered building system **100** can comprise one or more building system battery **170** that is not directly associated with a specific load sources **200**, and can be configured to store energy for the powered building system **100** generally for distribution to the electrical power grid **110**, to the load sources **200**).

### **Contact Information**

Any inquiry concerning this communication or earlier communications from the examiner should be directed to YALKEW FANTU whose telephone number is (571)272-8928. The examiner can normally be reached Monday-Friday 7:00AM-4:00PM.

Examiner interviews are available via telephone, in-person, and video conferencing using a USPTO supplied web-based collaboration tool. To schedule an interview, applicant is encouraged to use the USPTO Automated Interview Request (AIR) at <http://www.uspto.gov/interviewpractice>.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, DREW A DUNN can be reached on 571-272-2312. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of published or unpublished applications may be obtained from Patent Center. Unpublished application information in Patent Center is available to registered users. To file and manage patent submissions in Patent Center, visit: <https://patentcenter.uspto.gov>. Visit <https://www.uspto.gov/patents/apply/patent-center> for more information about Patent Center and <https://www.uspto.gov/patents/docx> for information about filing in DOCX format. For additional questions, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/YALKEW FANTU/  
Primary Examiner, Art Unit 2859