

(19) **United States**

(12) **Patent Application Publication**  
Lyons et al.

(10) **Pub. No.: US 2023/0231382 A1**

(43) **Pub. Date: Jul. 20, 2023**

(54) **METERING AND TRACKING DISTRIBUTED ELECTRICAL ENERGY GENERATION**

(52) **U.S. Cl.**

CPC ..... *H02J 3/144* (2020.01); *H02J 3/381* (2013.01); *H02J 3/004* (2020.01)

(71) Applicant: **Calagen, Inc.**, Portsand, OR (US)

(72) Inventors: **Gerard V. Lyons**, Bend, OR (US);  
**Gregory E. Grosh**, Dallas, TX (US);  
**Douglas F. Lyons**, Bend, OR (US)

(57)

**ABSTRACT**

(73) Assignee: **Calagen, Inc.**, Portland, OR (US)

(21) Appl. No.: **18/098,038**

(22) Filed: **Jan. 17, 2023**

**Related U.S. Application Data**

(60) Provisional application No. 63/300,170, filed on Jan. 17, 2022.

**Publication Classification**

(51) **Int. Cl.**  
*H02J 3/14* (2006.01)  
*H02J 3/38* (2006.01)  
*H02J 3/00* (2006.01)

Disclosed is a centralized system and method for metering, tracking, and monetizing distributed digital energy assets. The system includes the creation and utilization of a secure digital energy-asset that acts as a key, authorizing specialized circuits to generate a specified amount of electrical energy. Digital information passed through the system includes data necessary to ascribe attribution (i.e., branding, trail of ownership, etc.) and permit monetization (i.e., kWhs, time, dollars, geography, etc.). Functionality and/or value that is ascribed to the digital energy asset can be enhanced by appending additional information and/or utility. The system also includes a means to normalize and evaluate a potentially infinite number of measurements commonly used in business models across multiple industries to a simplified listing of measurements required to track and monetize energy alone within the system.

