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(54) **TITANIA-GRAPHENE ANODE ELECTRODE PAPER**

(75) Inventors: **Jun Liu**, Richland, WA (US); **Daiwon Choi**, State College, PA (US); **Wendy D Bennett**, Kennewick, WA (US); **Gordon L Graff**, West Richland, WA (US); **Yongsoon Shin**, Richland, WA (US)

(73) Assignee: **Battelle Memorial Institute**, Richland, WA (US)

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(52) **U.S. Cl.**
USPC **429/231.5**; 429/122; 429/209; 429/218.1

(58) **Field of Classification Search**
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See application file for complete search history.

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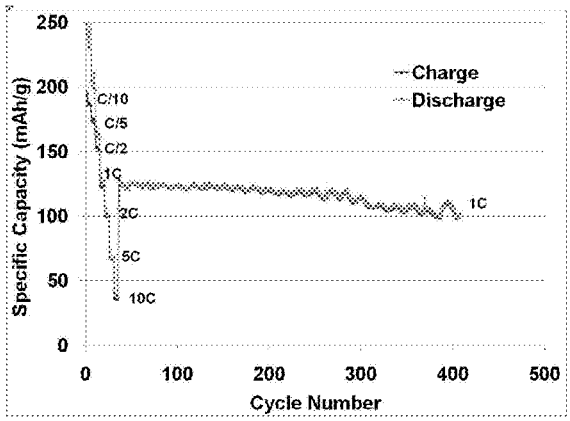
Primary Examiner — Patrick Ryan
Assistant Examiner — Aaron Greso
(74) *Attorney, Agent, or Firm* — Klarquist Sparkman, LLP

(57) **ABSTRACT**

A method for forming a nanocomposite material, the nanocomposite material formed thereby, and a battery made using the nanocomposite material. Metal oxide and graphene are placed in a solvent to form a suspension. The suspension is then applied to a current collector. The solvent is then evaporated to form a nanocomposite material. The nanocomposite material is then electrochemically cycled to form a nanocomposite material of at least one metal oxide in electrical communication with at least one graphene layer.

16 Claims, 5 Drawing Sheets