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(71) Applicant: LI INDUSTRIES INC. [US/US]; 1872 Pratt Drive, Suite 1500, Blacksburg, Virginia 24060 (US).

(72) Inventors: YOUNG, David; 25 Dartmouth St., Unit 4, Boston, Massachusetts 02116 (US). HAN, Xu; 269 Meeting House Lane, Merion Station, Pennsylvania 19066 (US). LI, Zheng; 410 Red Maple Drive, Blacksburg, Virginia 24060 (US). ELLIS, Michael W.; 611 Gigi Drive, Blacksburg, Virginia 24060 (US). SCHMIDT, Nolan; 400 Horseshoe Farm Road, Pembroke, Virginia 24136 (US).

(74) Agent: LUO, Yushan et al.; Cooley LLP, 1299 Pennsylvania Avenue, NW, Suite 700, Washington, District of Columbia 20004 (US).

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(54) Title: METHODS AND SYSTEMS FOR SCALABLE DIRECT RECYCLING OF BATTERIES

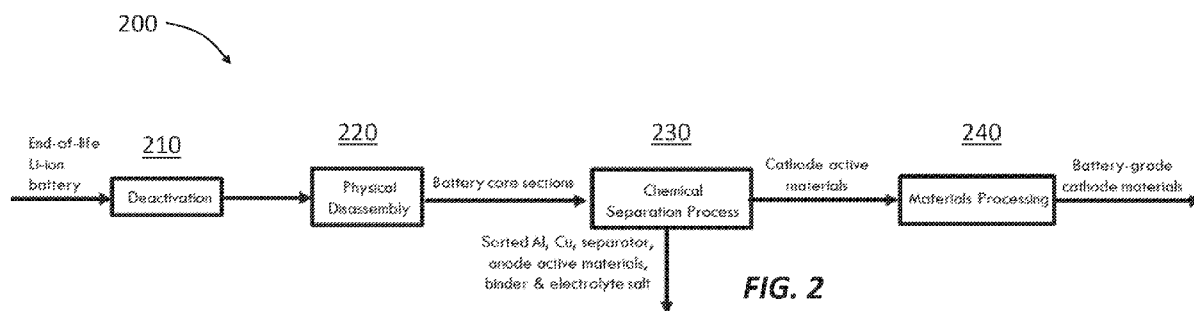


FIG. 2

(57) Abstract: A method includes processing at least one battery into a plurality of core sections. Each core section in the plurality of core sections includes an anode section, a cathode section including a cathode material, a separator section disposed between the anode section and the cathode section, and an electrolyte. The method also includes disposing the plurality of core sections into a solvent so as to produce a mixture of cathode materials from the plurality of core sections. The solvent and the electrolyte form an ionic conductive medium, and the mixture of the cathode materials is characterized by a substantially homogeneous distribution of an active element in the cathode material.



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