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(71) **Applicant: AGR LITHIUM INC.** [US/US]; 500 108th Avenue, NE, Suite 1100, Bellevue, Washington 98004 (US).

(72) **Inventors: NAIK, Amol;** c/o ACE Green Recycling, Inc., 500 108th Avenue, NE Suite 1100, Bellevue, Washington 98004 (US). **SINGH, Rupesh;** c/o ACE Green Recycling, Inc., 500 108th Avenue, NE, Suite 1100, Bellevue, Washington 98004 (US). **TYAGI, Vipin;** c/o ACE Green Recycling, Inc., 500 108th Avenue, NE, Suite 1100, Bellevue, Washington 98004 (US). **CHADHA, Nishchay;** c/o ACE Green Recycling, Inc., 500 108th Avenue, NE, Suite 1100, Bellevue, Washington 98004 (US).

(74) **Agent: UPADHYE, Kalpesh V.** et al.; c/o Morgan, Lewis & Bockius LLP, 1111 Pennsylvania Ave NW, Washington, District of Columbia 20004 (US).

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(54) **Title:** METHOD AND SYSTEM FOR RECOVERY OF ELECTRODE METALS FROM SPENT LITHIUM ION BATTERIES

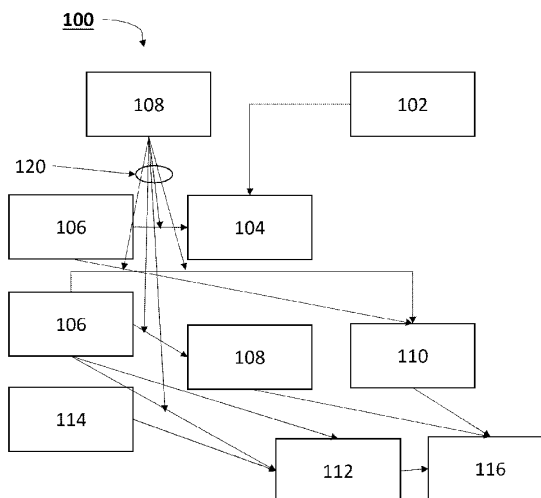


FIGURE 1

(57) Abstract: A method of obtaining an electrode metal from an electrode of a lithium-ion (Li-ion) battery includes separating an electrode portion from a spent Li-ion battery. A leaching solvent is contacted to the separated electrode portion to form an electrode dispersion. The electrode dispersion is heated to a temperature in a range from about 50 °C to about 90 °C by applying microwave radiation. The temperature of the electrode dispersion is maintained to be in the range from about 50 °C to about 90 °C for a period in a range from about 10 seconds to about 5 minutes by further applying microwave radiation to the heated electrode dispersion. The electrode dispersion is then filtered to obtain the electrode metal.

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