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

(57) Abstract: A method for obtaining a metal salt from a spent lithium-ion (Li-ion) battery may include contacting a leaching solvent to a portion of the spent lithium-ion battery to form a first dispersion. The first dispersion is heated to a temperature in a range from 50 °C to 90 °C by applying microwave radiation. The temperature of the first dispersion is maintained to be in the range from 50 °C to 90 °C for a period in a range from 10 seconds to 5 minutes by further applying microwave radiation to the heated first dispersion. The first dispersion is filtered to obtain a first filtrate. A first base is contacted with the first filtrate to increase a pH of the first filtrate to a first predetermined value to precipitate a first metal salt.

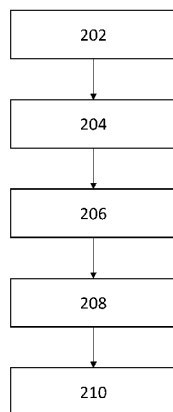


FIGURE 2

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