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- (54) Title:** SPENT BATTERY MATERIALS RECYCLING METHOD

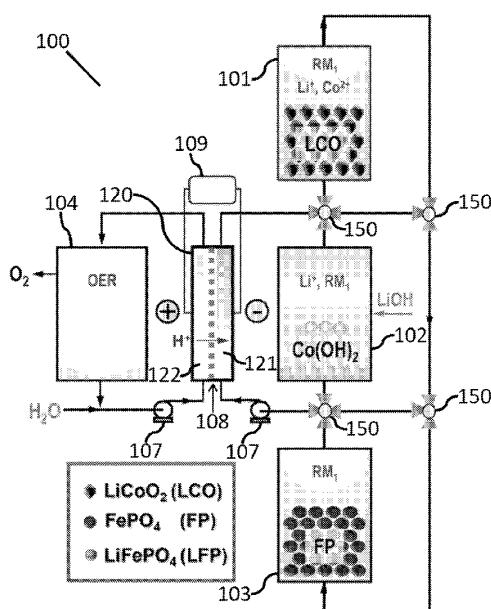


FIG. 1a

(57) Abstract: Disclosed herein is a method of recycling a spent battery material, the method comprising the steps of (a) providing a first reaction compartment fluidly connected to a cathode side of an electrolyser, (b) in a second reaction compartment, LiOH is added to precipitate the Co^{2+} to provide a filtered alkaline electrolyte solution which is supplied to a third reaction compartment when the Co^{2+} are substantially or are entirely removed from the filtered alkaline electrolyte solution by precipitation, and (c) in an initial state, the reaction compartment houses FePO_4 and accepts the filtered alkaline electrolyte solution from the second reaction compartment, the reaction loops are continued until the Li^+ ions are substantially or are entirely removed from the electrolyte. Also disclosed herein are an electrolytic device comprising an electrolyser, a first to third cathode tank, and an anode tank, and an electrolytic device comprising a first electrolyser, and a second electrolyser.

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