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(54) Title: CATHODE AND CATHODE SLURRY FOR SECONDARY BATTERY

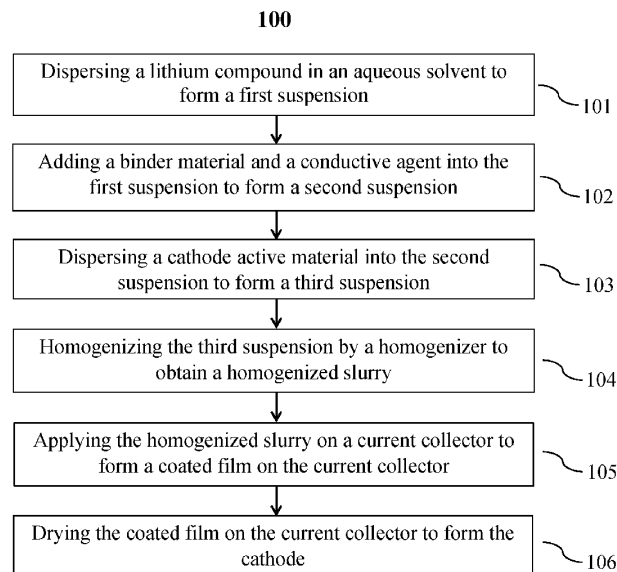


Figure 1

(57) **Abstract:** The invention provides an aqueous solvent-based cathode slurry for a secondary battery, comprising a cathode active material, a water-compatible copolymeric binder, a lithium compound, and an aqueous solvent. The lithium compound in the cathode slurry serves as a lithium-ion source in compensating for the irreversible capacity loss due to SEI formation during initial charging of the battery. Consequently, battery cells prepared using the cathode slurry disclosed herein exhibit improved electrochemical performance. Also provided herein is a cathode for a secondary battery, comprising a current collector and an electrode layer coated on one side or both sides of the current collector, wherein the electrode layer comprises a cathode active material, a water-compatible copolymeric binder, and a lithium compound; and which the cathode can be produced using the aqueous solvent-based cathode slurry disclosed.

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