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(54) Title: MULTIFUNCTIONAL POLYMER BINDER FOR ANODE AND METHOD OF PRODUCING SAME

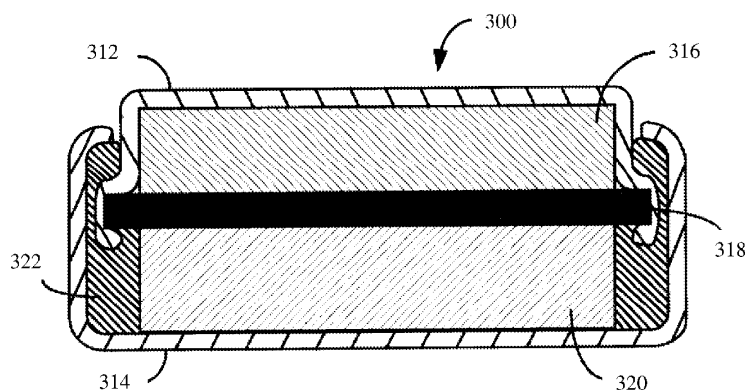


Figure 2

(57) Abstract: Disclosed is a method of fabricating an anode for a lithium-ion battery, comprising the steps of: mixing a silicon/graphite/carbon material, one or more linear polymers, one or more conductive polymers, one or more self-healing polymers, and one or more rubber polymers to produce a slurry; coating the slurry onto a metallic member; and drying the metallic member with coated slurry to form the anode. Also disclosed is an anode and a lithium-ion battery. Also disclosed is a multi-functional polymer binder including one or more linear polymers, one or more conductive polymers, one or more self-healing polymers, and one or more rubber polymers.



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