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(54) Title: METHOD OF PRODUCING THICK SULPHUR CATHODES FOR LI-S BATTERIES

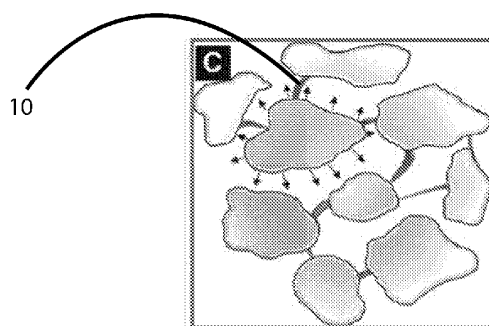


Figure 1C

(57) Abstract: A method of producing Sulfur cathodes for Li-S batteries utilising dry mixing of constituents (sulphur, carbon and binder) or semi-dry mixing. The resultant structure binds the neighbouring particles without covering them, i.e. by attaching a few parts of a particle to other neighbouring particles provides a solution for the successful cycling of thick and ultra-thick sulfur cathodes. Such an approach provides a robust thick cathode where particles are strongly bonded with minimal surface coverage with the polymer providing sufficient room to expand during lithiation. Bridging bonds are formed within the cathodes.



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