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(54) Title: TITLE OF THE INVENTION: A PLASMA PRINTING PROCESS TO MANUFACTURE AND PRODUCE BATTERY ELECTRODES AND ENHANCE CUNENT COLLECTORS

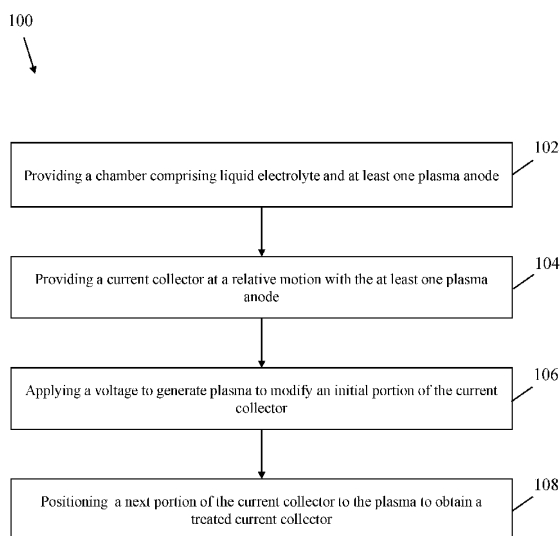


FIG. 1

(57) Abstract: Embodiments of the present invention provide a binder-free electrode of an electrochemical device fabricated using a plasma printing process. The process (100) comprises depositing electroactive material over a current collector to form the electrode in a continuous, electrolytic plasma process. As the electroactive material is mechanically bonded to a surface of the current collector, the inventive process is chemistry agnostic, and a wide variety of materials may be deposited on the current collector. A solid-state battery fabricated using the above process is also disclosed.

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