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(54) Title: MODIFIED CURRENT COLLECTOR FOR SECONDARY BATTERY

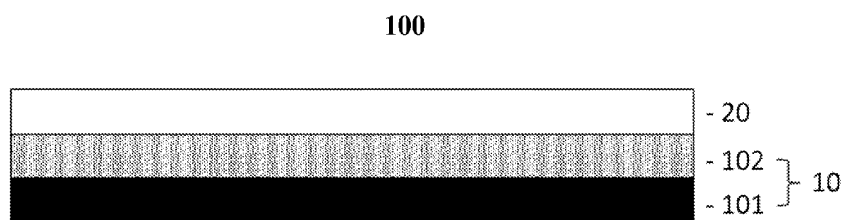


Figure 1a

(57) Abstract: The invention discloses a modified current collector for a secondary battery, comprising a substrate and a conductive layer applied on one side or both sides of the substrate, wherein the conductive layer comprises a conductive material and binder material, wherein the binder material comprises a copolymer. Also provided herein is an electrode for a secondary battery, comprising the modified current collector and an electrode layer, wherein the electrode layer is located on the surface of the conductive layer (s). Within an electrode comprising the modified current collector of the present invention, the presence of conductive layer inhibits corrosion of the substrate and reduces interfacial resistance between the electrode layer and the substrate. Consequently, batteries comprising an electrode prepared using the modified current collector disclosed herein exhibit exceptional electrochemical performance.



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