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**Shimizu**

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(54) **NON-AQUEOUS ELECTROLYTE BATTERY**

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429/215, 216; 205/58, 317

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(57) **ABSTRACT**

The invention provides a non-aqueous electrolyte battery using a carbonaceous material capable of doping or dedoping lithium for an anode, a composite oxide comprising lithium and a transition metal for a cathode, and a non-aqueous electrolyte obtained by dissolving a carrier salt in a non-aqueous solvent as an electrolyte. The non-aqueous electrolyte comprises at least one monomer selected from the group consisting of isoprene, styrene, 2-vinylpyridine, 1-vinylimidazole, butyl acrylate, ethyl acrylate, methyl methacrylate, N-vinylpyrrolidone, ethyl cinnamate, methyl cinnamate, ionone, and myrcene, which, upon charging, forms a film on the surface of the anode.

**4 Claims, 2 Drawing Sheets**

