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(54) **NANOCOMPOSITE OF GRAPHENE AND METAL OXIDE MATERIALS**

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(51) **Int. Cl.**

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H01M 10/00	(2006.01)
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(58) **Field of Classification Search** 429/209, 429/218.1, 122, 231.5; 423/448; 29/592
See application file for complete search history.

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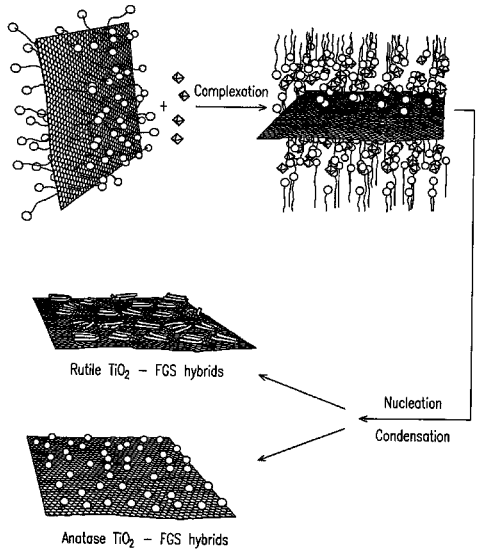
(57) **ABSTRACT**

Nanocomposite materials comprising a metal oxide bonded to at least one graphene material. The nanocomposite materials exhibit a specific capacity of at least twice that of the metal oxide material without the graphene at a charge/discharge rate greater than about 10C.

34 Claims, 12 Drawing Sheets