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(54) **Title**: NANOPARTICLE DECORATED NANOSTRUCTURED MATERIAL AS ELECTRODE MATERIAL AND METHOD FOR OBTAINING THE SAME

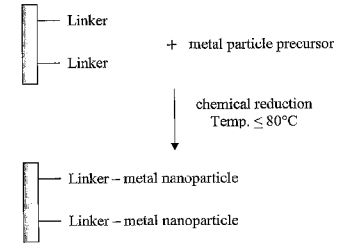

FIG. 1

(57) **Abstract**: The present invention refers to a nanostructured material comprising nanoparticles bound to its surface. The nanostructured material comprises nanoparticles which are bound to the surface, wherein the nanoparticles have a maximal dimension of about 20 nm. Furthermore, the nanostructured material comprises pores having a maximal dimension of between about 2 nm to about 5 μm. The nanoparticles bound on the surface of the nanostructured material are noble metal nanoparticles or metal oxide nanoparticles or mixtures thereof. The present invention also refers to a method of their manufacture and the use of these materials as electrode material.

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