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INTRODUCTION

In view of the recent amendment made in the Patents Act, 1970 by the Patents (Amendment) Act, 2005 effective from 01st January 2005, the Official Journal of The Patent Office is required to be published under the Statute. This Journal is being published on weekly basis on every Friday covering the various proceedings on Patents as required according to the provision of Section 145 of the Patents Act 1970. All the enquiries on this Official Journal and other information as required by the public should be addressed to the Controller General of Patents, Designs & Trade Marks. Suggestions and comments are requested from all quarters so that the content can be enriched.

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CONTROLLER GENERAL OF PATENTS, DESIGNS & TRADE MARKS**

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(57) Abstract :
 TITLE: SYNTHESIZING NiSe₂ ACTIVE ELECTRODE NANOPARTICLES FOR HIGH ENERGY DENSITY ASYMMETRIC SUPERCAPACITOR COIN CELL
 ABSTRACT A method of preparation of a Nickel diselenide (NiSe₂) nanoparticles (100) using one-pot one-step hydrothermal reaction comprising: adding a nickel nitrate and a sodium selenite as precursors to a distilled water to obtain a mixture (101); adding a non-toxic biocompatible L-Ascorbic as a reducing agent to the mixture to obtain a homogeneous mixture (102); transferring the homogeneous mixture into a teflon lined autoclave to heat for 2 hrs at 180 °C (103); cooling the autoclave naturally in an oven to form Nickel diselenide (NiSe₂) nanoparticles suspension (104); and washing the Nickel diselenide (NiSe₂) nanoparticles suspension using distilled water followed by acetone and drying at 80 °C for 2 hrs in an oven to obtain a Nickel diselenide (NiSe₂) nanoparticles (105), wherein the obtained Nickel diselenide (NiSe₂) nanoparticles used to prepare electrode of Nickel diselenide (NiSe₂) nanoparticles for fabrication of a high performance supercapacitor coin cell. << FIG. 1A >>

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