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(54) Title of the invention : NANOSTRUCTURED GAS SENSORS FOR HEALTHCARE AND MEDICAL SECTOR

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(57) Abstract :

[032] The present invention discloses a Nanostructured Gas Sensors for healthcare and medical sector. The Nanostructured Gas Sensors includes the steps, but not limited to, providing, a nanostructure based unit having a surrogate marker unit wherein the surrogate marker unit is released from the nanostructure-based assembly in the presence of a target analyte / biomarker; a substrate designed to carry gas sensor unit, an electronic circuit unit, a wireless transceiving module, power supply and a structure for hanging around the external body of the user; an electronic circuit unit connected with a user device / computing device and further provided with a carbon nanotube sensor unit and the wireless transceiving module to perform a predefined function on receiving the electrical signal obtained from the measurement of electrical property of the carbon nanotube sensor unit.

No. of Pages : 21 No. of Claims : 10

**FORM- 5**  
**THE PATENTS ACT, 1970**  
**(39 of 1970)**  
**&**  
**The Patents Rules, 2003**  
**DECLARATION AS TO INVENTORSHIP**  
**[See Section 10(6) and Rule 13(6)]**

**1. NAME OF THE APPLICANT(S)**

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hereby declare that the true and first inventor(s) of the invention disclosed in the complete specification filed in pursuance of ~~my~~/ our application numbered \_\_\_\_\_ dated 07-08-21~~is~~/are

**2. INVENTOR(S)**

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<p><del>3. DECLARATION TO BE GIVEN WHEN THE APPLICATION IN INDIA IS FILED BY THE APPLICANT(S) IN THE CONVENTION COUNTRY:—</del></p> <p style="text-align: center;">N.A.</p> <p><del>We the applicant(s) in the convention country hereby declare that our right to apply for a patent in India is by way of assignment from the true and first inventor(s).</del></p>		
<p>Dated this 07<sup>th</sup> day of August, 2021</p> <p style="text-align: right;">Mr. Chandrasekhar Maalegoundla et. al. <b>Applicant(s)</b></p> <p>To, The Controller of Patents The Patent Office, Chennai</p>		