

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202311078186 A

(19) INDIA

(22) Date of filing of Application :17/11/2023

(43) Publication Date : 23/05/2025

(54) Title of the invention : "GRAPHENE-BASED SENSORS FOR REAL-TIME BIOMEDICAL MONITORING SYSTEM"

(51) International classification	:A61B0005000000, A61B0005020500, A61B0005024000, A61B0005021000, A61B0005145000	(71) Name of Applicant : 1)Noida Institute of Engineering and Technology Address of Applicant :19, Institutional Area, Knowledge Park II, Greater Noida, Uttar Pradesh , India Greater Noida Uttar Pradesh India
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(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention provides a graphene-based sensor for a real-time biomedical monitoring system that explores the use of graphene-based sensors for real-time biomedical monitoring, leveraging the unique properties of graphene to detect and analyze biological signals with high sensitivity and accuracy. The system includes a plurality of nanographene sensors; and at least one processor comprising a monitoring module. The biological parameters are collected by the graphene sensor from the user's skin and the biological parameters from the skin are calculated, and the calculation result is reported to the monitoring module. The processor summarizes the data reported by the graphene sensor performs secondary analysis, and reports the analysis result that is sent to the electronic device of the user. The present invention also provides a method for monitoring biological health parameters based on graphene sensors for a real-time biomedical monitoring system. Figure 1

No. of Pages : 19 No. of Claims : 5