

**BEFORE THE CONTROLLER OF PATENTS**  
**IN THE MATTER OF THE PATENTS ACT, 1970 (as amended)**  
**AND THE PATENTS RULES, 2003 (as amended)**  
**(Section 43(1) & 15)**

APPLICATION NUMBER	202411024532
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	27/03/2024
APPLICANT NAME	<b>GALGOTIAS UNIVERSITY</b>
TITLE OF INVENTION	IOT BASED WRITING PEN FOR MONITORING THE HEALTH PARAMETERS
FIELD OF INVENTION	BIO-MEDICAL ENGINEERING
E-MAIL (As Per Record)	ashish.iprindia@hotmail.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	29/06/2024
PUBLICATION DATE (U/S 11A)	10/05/2024
REPLY TO FER DATE	04/11/2025

## DECISION

### **1. Brief summary of present invention:**

The present application hereinafter will be called “Instant application”, Instant application relates to “An IOT based writing pen for monitoring the health parameters comprises different types of sensors (101), microcontroller (102), WIFI (103), Power source (104), memory (105), mobile application (106), enclosure (107), alert system (108), Cloud platform (109), Display (110). In another embodiment different types of sensors (101) are integrated into the pen to monitor different health parameters, such health monitor sensor, temperature sensor, accelerometer, blood oxygen level sensor, pressure sensor and transfer to the microprocessor (102), where it serves as the brain of the pen, managing data collection from the sensors, processing the data, and controlling other components of the device. In another embodiment WIFI (103) is used for wireless connection to transmit data to external devices like smart phones or tablets and power source (104) provides the necessary energy to operate the pen and its components; memory (105) temporarily store health data before it is transmitted to external devices. In another embodiment mobile application (106) works as a interface for user to view and analyze their health data and the enclosure (107) used for internal components, providing protection and durability. In another embodiment alert system (108) generate alert or notification in response to abnormal health reading and also prompt the user to take appropriate action, such as seeking medical attention or adjusting their activity level. In another embodiment Cloud platform (109) secures the user data, robust encryption protocols and authentication mechanisms are implemented both within the pen and the companion application. In another embodiment Display (110) provides feedback to the user about their health status or the pen’s connectivity status.”

Number of claims initially filed: 1-7.

### **2. Patent Application and Its Prosecution:**

2.1 The said application was examined under sections 12 and 13 of the Patents Act, 1970 (as amended) and First Examination report (hereinafter referred as ‘FER’) containing a statement of objections was issued to the agent on 29/10/2025(“202411024532-FER.pdf”).

2.2 Technical as well as formal objections that were raised in the FER and communicated to the agent under section 14 of The Act.

**2.3.1 Technical objections were raised in FER under section 2(1)(j) of ‘The Act’ for inventive step by citing documents**

1. D1: US2016364549A1

2. D2:WO2019012471A1

**2.3.2 Claim clarity, non patentability and other requirement objections for claims were also raised.**

2.3.3 **Formal requirements** under rule 9(d),12(1),13(7),15(6) of ‘The Rule’ and section 7(2),8(1) as per the requirement of ‘The Act’ were raised.

### **3.Arguments submitted by the Applicant in response to FER:**

3.1 In response to the FER, applicant's agent filed the response to FER on 04/11/2025 (“202411024532-FER\_SER\_REPLY [04-11-2025(online)].pdf”).

3.2 The applicant revised the original claims 1-7 to 1-5 under the provisions of section 57(6) of the Patents Act. Revised claims had been renumbered and their dependencies changed accordingly.

3.3 The applicant stated in reply w.r.t. to point [2.3.1] that after amending the features of amended claim invention with teachings of the cited documents, we note that the cited document D1-D2, fails, teach or even suggest at least the features “An IOT based writing pen for monitoring the health parameters comprises different types of sensors (101), microcontroller (102), WIFI (103), Power source (104), memory (105), mobile application (106), enclosure (107), alert system (108), Cloud platform (109), Display (110); wherein different types of sensors (101) are integrated into the pen to monitor different health parameters, such health monitor sensor, temperature sensor, accelerometer, blood oxygen level sensor, pressure sensor and transfer to the microprocessor (102), where it serves as the brain of the pen, managing data collection from the sensors, processing the data, and controlling other components of the device; wherein WIFI (103) is used for wireless connection to transmit data to external devices like smart phones or tablets and power source (104) provides the necessary energy to operate the pen and its components; memory (105) temporarily stores health data before it is transmitted to external devices” recited in claim 1 of the present application.

3.4 Regarding objection under point [2.3.2] to [2.3.3], applicant stated that it submitted the required response to overcome the objections where appropriate.

### **4. Hearing Notice: Objection raised/sustained at amended stage of examination.**

4.1 However, without prejudice above stated facts some objections were still pending.

4.2 During prosecution of the instant application it was found that even after first examination report and reply, some objections were outstanding and therefore to dispose of the application, final hearings were offered to the applicant under section 14 of the Patents Act. The applicant was provided with hearing in order to comply with the requirements of the Act and Rules. Following objections were communicated through hearing notice

**1. 202411024532-US(14)-HearingNotice-(HearingDate-04-12-2025).pdf**

**5. Analysis:**

5.1 After considering the reply filed in response to the FER by the applicant and the report of the examiner on such reply, it was observed that the distinct features of amended independent claim 1 as claimed in reply of the FER by the applicant as disclosed in above para 3.3 are absent in cited document D1-D2.

**“202411024532-Written submissions and relevant documents [19-12-2025(online)].pdf”**

5.2 The authorized agent of the applicant attended the hearing on scheduled date and time and all the pending objections were duly discussed and the reply arguments of the applicant were duly heard. A written submission (“202411024532-Written submissions and relevant documents [19-12-2025(online)].pdf”) was filed on 19/12/2025. Through hearings and written submission filed, the agent has complied with the requirements of the hearing notices served. New set of claim 1 (After Hearing).

5.3 It was observed that the said patent application was in order for grant. Claim 1 filed in response to FER is found to be novel, inventive, clear, definitive and in order, and thereby allowed. Further, pertinent submissions in respect of the requirements relating to filing of duly signed forms, and other formal requirements are also found to be complied with. Also, there is no pre-grant opposition under Section 25 (1) of The Patents Act. In view of the differences from the cited prior arts, the claim 1 meets the requirements of the section 2(1)(j) of the Patent Act, 1970(as amended) and also satisfy the requirements of the section 2(1)(ja) of the Patent Act, 1970(as amended).

5.4 All other objections and formal requirements were in order and complied of (**“202411024532-Written submissions and relevant documents [19-12-2025(online)].pdf”**)

**6. Decision :**

6.1 In view of the above fact, the instant application no: **202411024532** is hereby granted under section 43(1) and section 15 of the Patents Act of 1970 (as amended).

6.2 This is to be noted that the aforesaid observations, and decision thereof, are based solely on the electronically uploaded documents to date. The granted claim 1 is enclosed.

**Date: 23/12/2025**

**RAM SHANKAR SAHU**  
Assistant Controller of Patents & Designs