



Industrial Consultancy & Sponsored Research (IC&SR)

SYSTEM AND METHOD TO FORM CONTINUOUS GLUCOSE MONITORING DEVICE **IITM Technology Available for Licensing**

Problem Statement

Indian Institute of Technology Madras

- Painful Process: Traditional SMBG strips require finger pricking, causing user discomfort.
- Cost and Convenience: CGM devices are expensive and need a separate reader unit, which can be cumbersome during activities.
- Need for Improvement: There is a demand for a cost-effective and user-friendly glucose monitoring device.

Intellectual Property

- IITM IDF Ref. 2522
- IN 537167 Patent Granted

TRL (Technology Readiness Level)

TRL - 4: Technology validated in lab scale.

Technology Category/ Market

Category - Wearable Medical Devices. Medical & Surgical Devices.

Applications- Digital Health and Remote Patient Monitoring

Industry- Telehealth, Healthcare and Medical Devices

Market - Non-invasive Glucose Monitoring Devices Market size is estimated to grow by USD 25.98 million from 2024 to 2028 at a CAGR of 15%.

Research Lab

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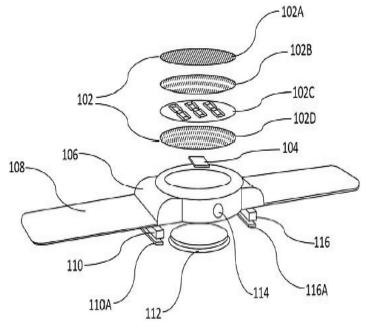


FIG. 1. illustrates a perspective view of a system to receive a continuous glucose monitoring patch. The system include a display unit (102), a reader unit (104), and a modular housing (106), a strap (108), one or more batteries (110, 116), a battery cover (110A, 116A), a CGM patch (112) and a control button (114).

Technology

The invention includes a continuous glucose monitoring (CGM) device with a modular housing and an integral display unit, allowing users to view glucose levels directly on the device.

The CGM patch is designed to be removably disposed within the modular housing and is capable of detecting glucose levels, which are then displayed and calibrated through a reader unit.



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The system aims to provide a costeffective and user-friendly solution for glucose monitoring, addressing the pain inconvenience associated and with traditional SMBG strips and the higher costs of existing CGM devices.

CONTACT US

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