



Patent Brokerage Prospectus

*This patent turns a
lavatory into a vital
signs monitoring
system.*

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Passive Vital Signs Collection and Recording U.S. Patent No. 12,514,413

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Executive Summary

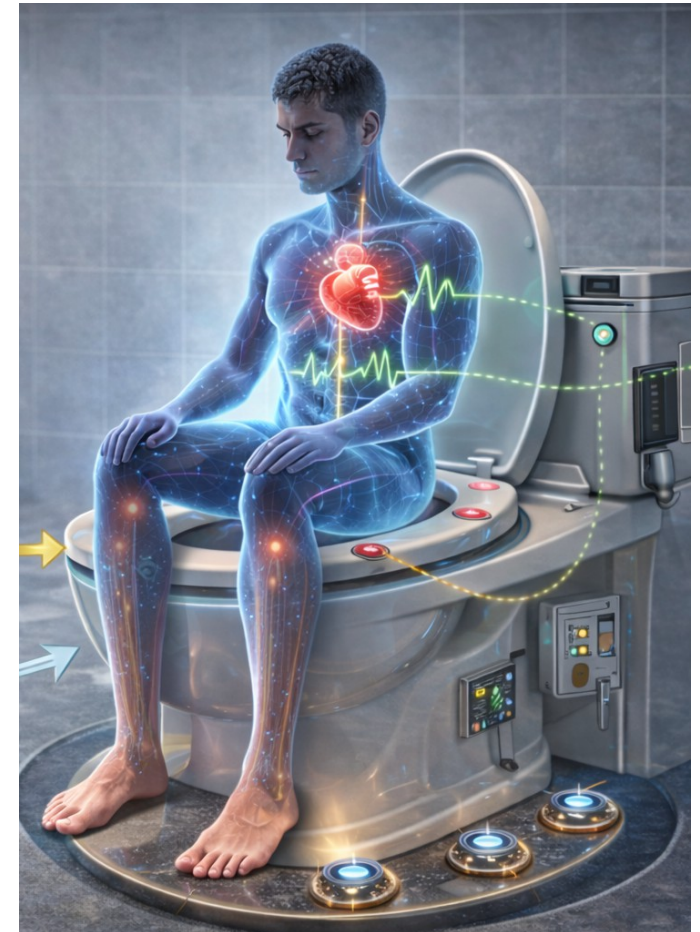
This patent introduces technology that passively records the patient's blood pressure and blood glucose, automatically runs an electrocardiogram, and takes the patient's weight.

Passive Vital Signs Collection and Recording: **U.S. Patent No. 12,514,413**

The population continues to age, and that means more and more Americans are living alone. It is critically important that a patient's vital signs (blood pressure, blood glucose, and heart activity) are tracked on a regular basis and recorded so the patient's physician will have this data over time. There is really no alternative to sending a nurse or technician to see the patient to collect and record this data – an expensive undertaking. Until now.

The invention covered by this patent collects the patient's blood pressure and blood glucose automatically. It also runs an electrocardiogram (ECG) on the patient and takes the patient's weight. The invention consists of a set of sensors that are incorporated into a seat ring that sits on a toilet seat. When a patient sits down, the unit goes to work automatically, using its sensors to determine the patient's blood pressure, blood sugar, and weight, and performing an ECG. There is a fingerprint sensor that also records the person using the toilet so that visitors and family members are excluded from the process. There is also an emergency button should the patient be in distress or need assistance. A microprocessor records all the data and reports it when requested.

U.S. Patent No. [12,514,413](#) for "Lavatory equipment" would enable any medical electronics manufacturer to introduce a vital signs monitoring system that will keep physicians better informed about their patients. A device based on this patent could be used by those under a physician's care or it could be supplied by caregivers who want to monitor the vital signs of a loved one.





The Patent

Abstract and Independent Claim

This patent has one Independent Claim and 15 Dependent Claims.

This patent is valid and enforceable through 2042.

The patent number at the top of the page is a link to the patent's listing at Google Patents.

U.S. Patent No. [12,514,413](#): Lavatory equipment

Application Date: December 14, 2021

Publication Date: March 6, 2025

Patent Grant: January 6, 2026

Patent Application: 18/256,918

Patent Expiration: July 10, 2042

Claims: 16

The present invention relates to a lavatory equipment enabled for simultaneous assessment and diagnosis of a plurality of vital parameters of human body. The lavatory equipment comprises a toilet seat installed with a plurality of sensors, a seat ring mounted over the toilet seat, a microcontroller unit, a display unit, a finger-print sensor, an ECG electrode unit positioned on a seat ring, a blood glucose sensor, a blood pressure sensor, an electromechanical switch and an emergency push switch.

What is claimed is:

1. A lavatory equipment enabled for simultaneous assessment and diagnosis of a plurality of vital parameters of human body, the lavatory equipment comprising:

a toilet seat installed with a plurality of sensors to measure and assess the plurality of vital parameters of human body;

a seat ring mounted over the toilet seat, wherein the seat ring is attached to a rotatable axis rod enabling swing from a horizontal position to a vertical position;

a microcontroller unit configured to

store and process data received from the plurality of sensors, the said data comprising a plurality of vital parameters of human body, and

compare the plurality of vital parameters with pre-standard parameters;

a display unit configured to display the measured vital parameters values and providing voice enabled interactive information to a user; and

an emergency push switch attached to the microcontroller unit at a predefined height;

wherein the plurality of sensors comprise

(Continued next page...)



The Patent *(continued...)*

Abstract and Independent Claim

U.S. Patent No. 12,514,413: Lavatory equipment

a weight sensor unit comprising a plurality of load cells, and positioned symmetrically on the seat ring to bear total weight of a human body, and is connected to a multi-pin connector which is affixed to the microcontroller unit via a plurality of leads, wherein the weight sensor unit is configured to record and analyze total discharge of the user;

an IR temperature sensor, wherein the IR temperature sensor is affixed to the microcontroller unit above a water jet at a predefined height, a pulse oximeter unit connected to the microcontroller unit by at least one registered jack unit male and a registered jack unit female connector, wherein the pulse oximeter unit is positioned in such way that, it enables measurement of pulse from either side of the toilet seat with help of a swing string,

a finger-print sensor,

an ECG electrode unit positioned on the seat ring, wherein the ECG electrode unit comprises ECG electrodes positioned on a footrest;

a blood glucose sensor and

a blood pressure sensor.

The Patent (continued)

Figures from the Patent

U.S. Patent No. 12,514,413: Lavatory equipment

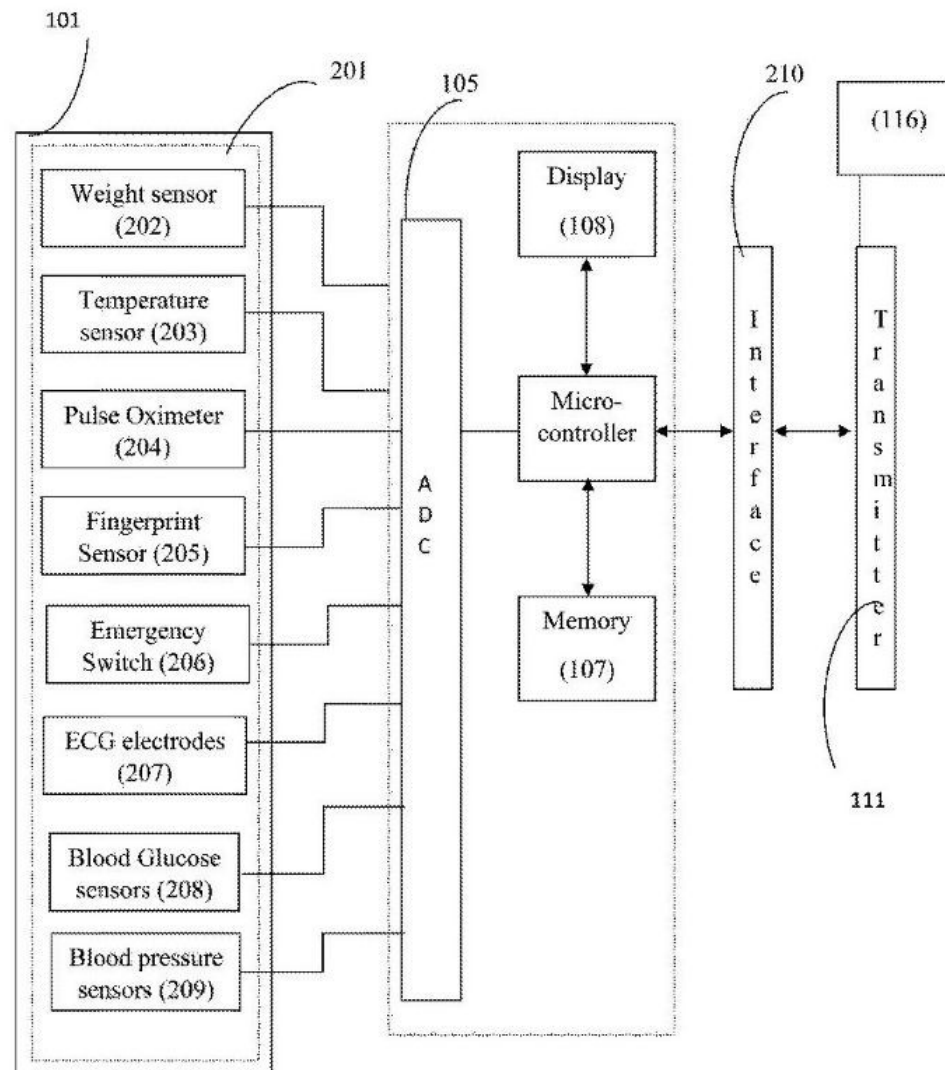


Fig. 2

Figure 2 depicts a schematic positioning of a plurality of sensors with respect to other components per one embodiment of patented invention.
 101: Toilet seat
 105: Analog to digital converter
 111: Transmitter
 116: Caregiver device
 201: Plurality of sensors
 210: Interface

The Patent (continued)

Figures from the Patent

U.S. Patent No. 12,514,413: Lavatory equipment

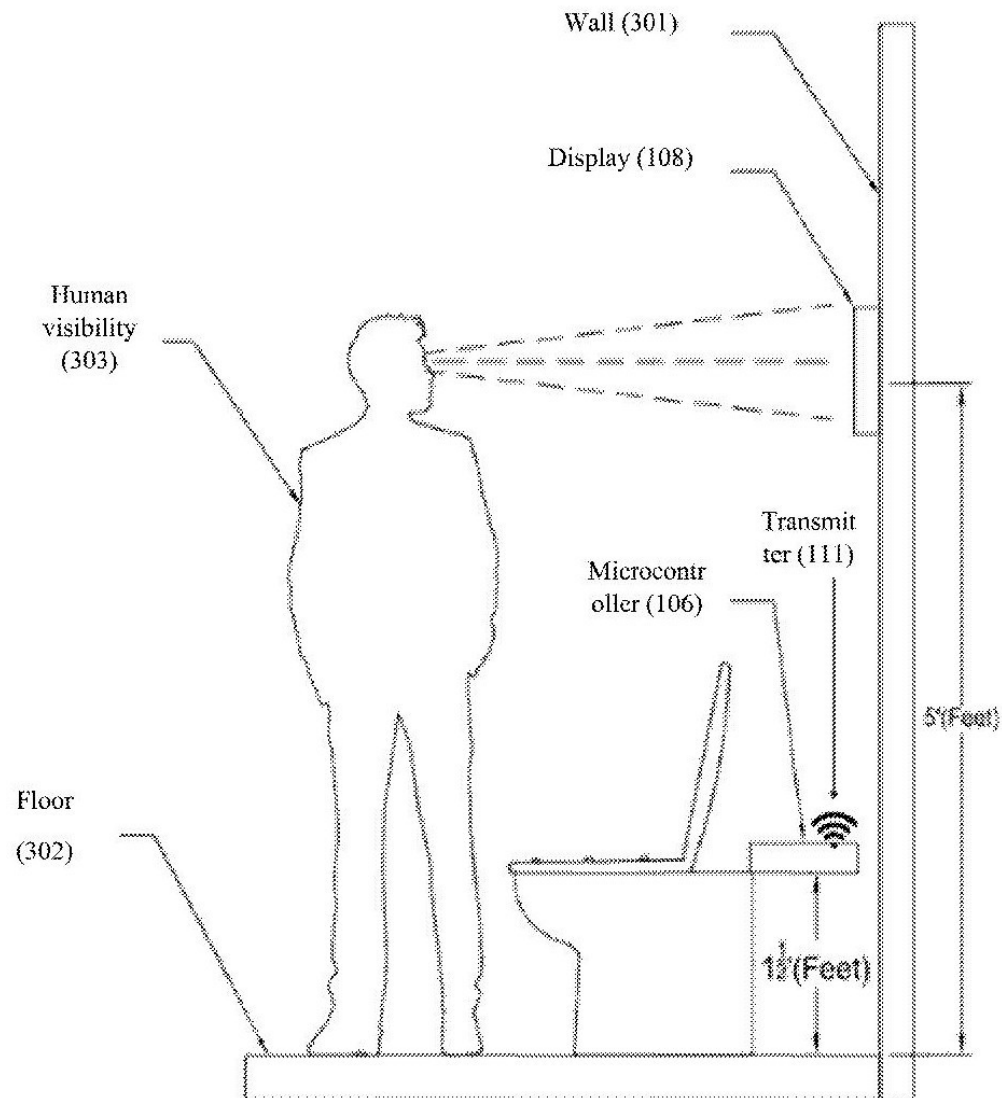


Figure 3B depicts a fitment and display arrangement of one or more components of the lavatory equipment per one embodiment of the patented invention.
106: Microcontroller
108: Display unit
111: Transmitter
301: ?????
302: ?????
303: ?????

Fig. 3B

The Patent (continued)

Figures from the Patent

U.S. Patent No. 12,514,413: **Lavatory equipment**

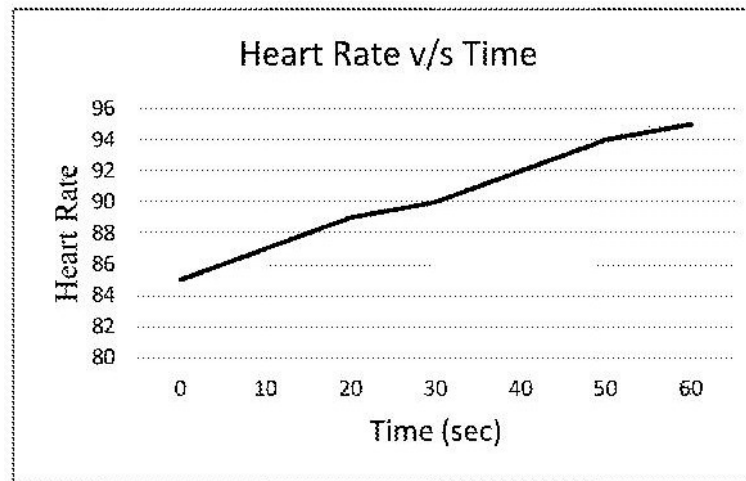


Fig. 12A

Figures 12A, 12B, and 12C depict a heart rate v/s time graph based on working of the Pulse Oximeter and the corresponding display of pulse measured for one or more users on a display device per one embodiment of the patented invention.

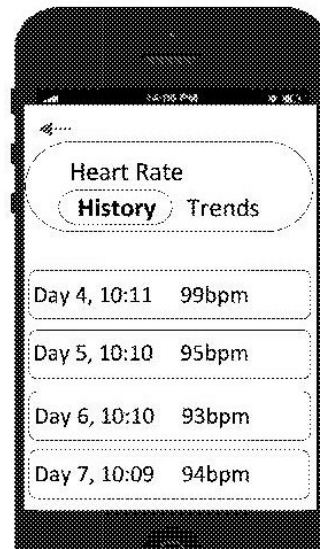


Fig. 12B

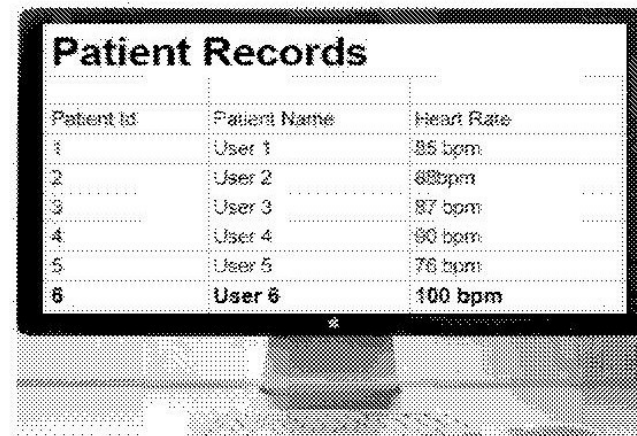


Fig. 12C

The Patent (continued)

Figures from the Patent

U.S. Patent No. 12,514,413: Lavatory equipment

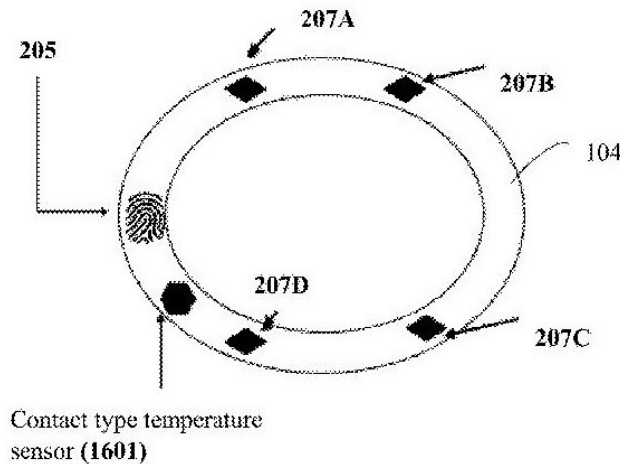


Figure 16A depicts a positioning of fingerprint sensor and ECG electrodes on a toilet seat ring per one embodiment of the patented invention.

104: Toilet seat

206: ?????

207A, 207B, and 207C: Mounted ECG electrodes

1601: Temperature sensor

Fig. 16A Fingerprint sensor and ECG

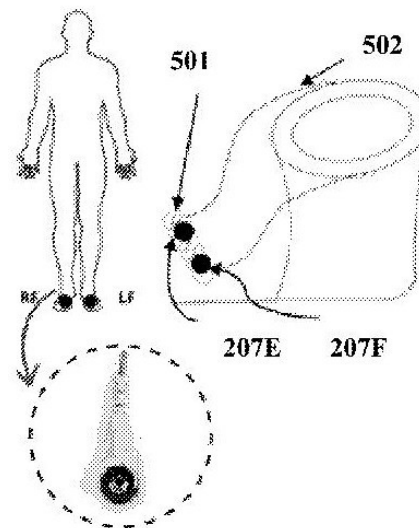


Figure 16D depicts a contact of one or more ECG electrodes to the User's body per one embodiment of the patented invention.

207E and 207F: ECG electrodes

501: Support stand foot rest

502: Support rods

Fig. 16D



Commercial- izing the Technology Covered by This Patent

*This patent creates
configuration of
devices that passively
monitor a patient's
vital signs.*

Passive Vital Signs Collection and Recording: **U.S. Patent No. 12,514,413**

❖ **Key Technical Features of the Patented Invention:** The device created by this patent provides *simultaneous vital parameter measurements*.

- ◆ Weight sensing with 6-load cell symmetric arrangement
- ◆ Infrared temperature sensing
- ◆ Pulse oximetry (SpO₂ and heart rate)
- ◆ Fingerprint identification
- ◆ Overstay alarm
- ◆ Emergency alarm
- ◆ ECG (electrocardiogram) monitoring
- ◆ Blood pressure monitoring
- ◆ Blood glucose measurement capability

The device uses *advanced processing architecture*.

- ◆ Real-time microcontroller-based data processing
- ◆ Comparison with pre-standard baseline parameters
- ◆ Multi-parameter health index calculation
- ◆ Automated emergency alert generation
- ◆ Voice-enabled interactive feedback
- ◆ Cloud-based data storage and analysis
- ◆ AI driven individual and public health prediction unique clinical application

❖ **Unique Clinical Applications:** This patent addresses a documented medical gap. Approximately 11% of sudden cardiac deaths occur in bathroom/toilet environments. The continuous monitoring during toilet use provides early detection capability for cardiac events and other critical health emergencies.

(Continued next page...)





Commercial- izing the Technology Covered by This Patent

(continued...)

*This patent introduces
a next-generation
lavatory monitoring
system.*

Passive Vital Signs Collection and Recording: **U.S. Patent No. 12,514,413**

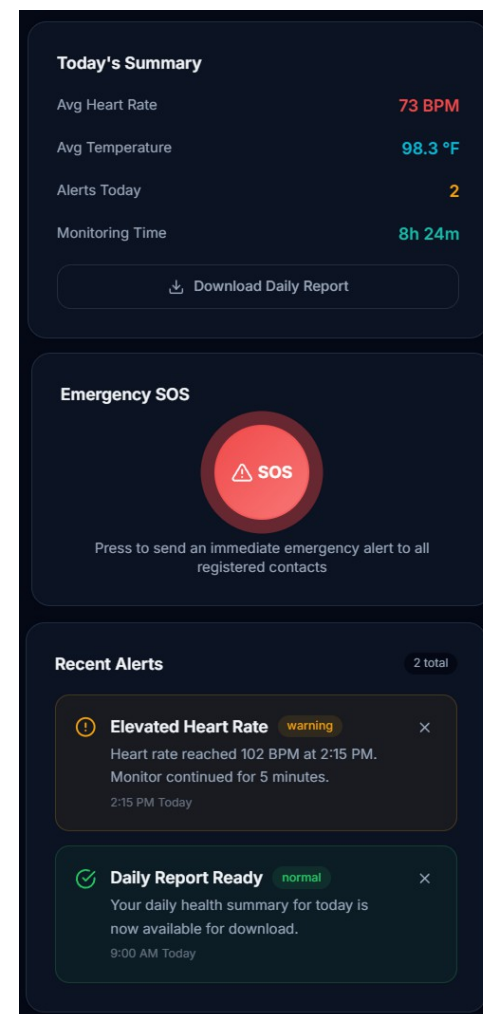
❖ **Worldwide Demand for This Technology:** The global smart toilet market is projected to grow significantly with increasing demand for comprehensive monitoring.

- ◆ Integrated health monitoring in home environments
- ◆ Early disease detection and prevention
- ◆ Remote patient monitoring (RPM) systems
- ◆ Smart home health platforms
- ◆ Elderly care solutions
- ◆ Post-operative monitoring systems
- ◆ AI driven individual and public health prediction unique clinical application

❖ **A Next-Generation Lavatory Monitoring System:** In a post-pandemic world with aging populations and rising healthcare costs, prevention and early detection have become paramount. This patent provides exactly what healthcare systems need – a practical, affordable, integrated health monitoring solution that works in the environment where patients are naturally present. This is the first medical-grade, smartphone-compatible health monitoring system specifically designed for the toilet environment.

- ◆ Simultaneous measurement of six vital parameters plus weight analysis
- ◆ Medical-grade accuracy meeting FDA requirements ($\pm 0.2^{\circ}\text{C}$ for temperature, $\pm 3\%$ for pulse oximetry)
- ◆ Non-contact measurement during natural body functions
- ◆ Continuous monitoring during high-risk periods
- ◆ Real-time data transmission to healthcare providers

(Continued next page...)



IP Offerings

Commercializing the Technology Covered by This Patent (continued...)

This invention is ideally suited for both institutional patients as well as patients being cared for at home.

Passive Vital Signs Collection and Recording: U.S. Patent No. 12,514,413

❖ **Technical Innovations:** This patent introduces next-generation technology for the emerging "health-integrated appliances" category, transforming traditional bathroom fixtures into active health monitoring.

- ◆ Specific six-load-cell hexagonal arrangement enabling discharge weight analysis
- ◆ Dual-maxima weight calculation methodology unique to this technology
- ◆ Real-time pre-standard parameter comparison with personalized baselines
- ◆ Automated health index computation from multi-parameter data
- ◆ Emergency alert generation with contextual vital data

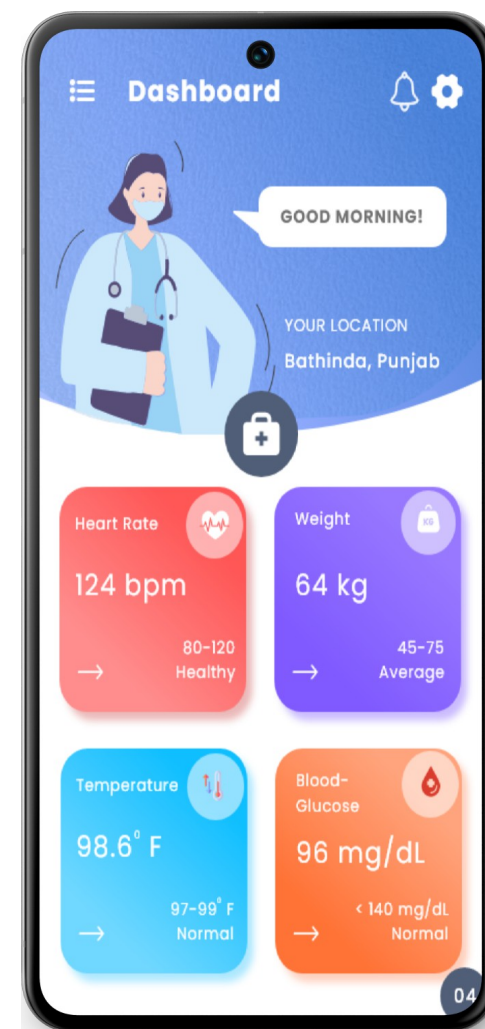
❖ **Commercializing the Technology:** A device based on this patent can be deployed in private homes, hospitals, and assisted living facilities, or integrated as a critical component in remote health monitoring systems.

- ◆ Voice-enabled interactive interface for elderly users
- ◆ Fingerprint-based identification for family care scenarios
- ◆ Cloud-based data storage accessible to authorized caregivers
- ◆ Swing-mounted pulse oximeter for comfortable positioning
- ◆ Non-invasive measurement during normal toilet use

❖ **A Product That's Time Has Come:** Multiple converging factors have created an unprecedented demand for this technology including demographic drivers.

- ◆ Global elderly population (>65 years) growing at 3% annually
- ◆ Increased prevalence of chronic diseases (hypertension, diabetes, cardiac conditions)
- ◆ Rising healthcare costs driving shift toward preventive monitoring
- ◆ Post-pandemic awareness of infection prevention during close-contact monitoring

(Continued next page...)



IP Offerings

Commercializing the Technology Covered by This Patent (continued...)

This patented technology both records a patient's vital signs – and records them and transmits them to the patient's caregiver(s).

Passive Vital Signs Collection and Recording: U.S. Patent No. 12,514,413

- ❖ **Clinical Recognition:** This device directly addresses the needs of where patient care is going.
- ◆ Documented increase in cardiac events during defecation (11% of sudden cardiac deaths)
- ◆ Growing use of remote patient monitoring in home-based care
- ◆ Clinical guidelines emphasizing continuous vital sign monitoring for at-risk populations
- ◆ Integration of IoT devices into electronic health records (EHRs)



(Continued next page...)



Commercial- izing the Technology Covered by This Patent

(continued...)

*In a world of aging
populations and
increasing health
risks, this patent
family directly
addresses the need
for passive,
continuous
emergency
detection in private
spaces.*

Passive Vital Signs Collection and Recording: U.S. Patent No. 12,514,413

❖ **Market Readiness:** All the key elements are in place.

- ◆ Over 300 million smartphones in use capable of data reception
- ◆ Widespread adoption of telehealth platforms by major healthcare providers
- ◆ Existing smart home infrastructure (Wi-Fi, cloud services)
- ◆ Regulatory frameworks established for medical device certification (FDA, CE Mark)

❖ **A Comprehensive Healthcare Solution:** The true value of this patent extends beyond hardware to create an integrated healthcare platform.

◆ **Hospitals and Clinics:**

- Remote patient monitoring solution reducing hospital readmission rates
- Post-operative monitoring during critical recovery period
- Chronic disease management with continuous vital assessment
- Early warning system for deteriorating health status

◆ **Home Care and Assisted Living:**

- Continuous monitoring of elderly residents without intrusive devices
- Automated alerts to nursing staff for intervention
- Reduction in fall incidents through early detection of syncope precursors
- Integration with existing care management systems

◆ **Individuals and Families:**

- Non-invasive health tracking in familiar home environment
- Peace of mind for caregivers through automated alerts
- Early detection enabling timely medical intervention
- Health data for informed discussions with physicians

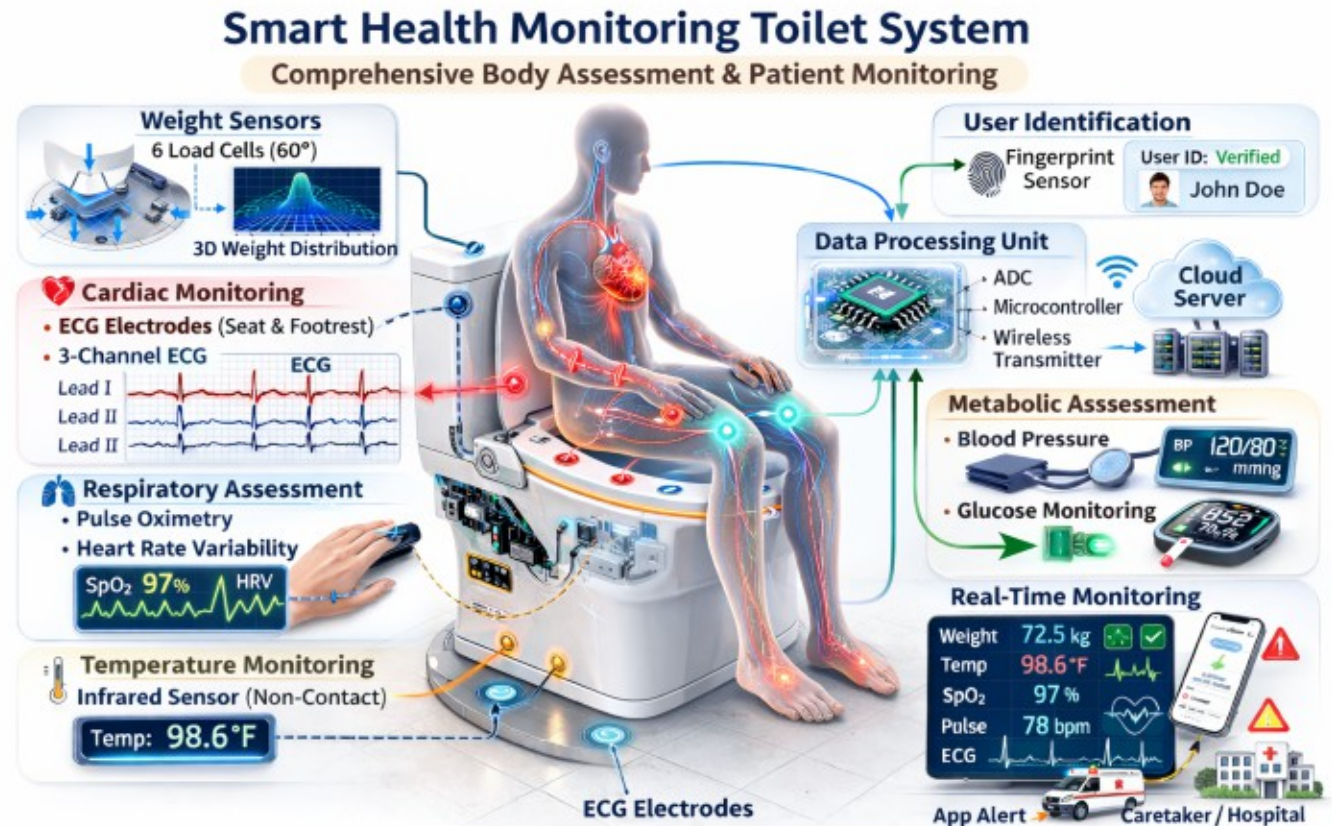
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IP Offerings

Commercial-izing the Technology Covered by This Patent (continued...)

More than just a lavatory fixture, the device covered by this patent family is a foundational component in a comprehensive health monitoring platform.

Passive Vital Signs Collection and Recording: U.S. Patent No. 12,514,413



❖ **Precision Data Acquisition:** A device based on this patent is a sophisticated measurement instrument designed from the ground up for reliable data collection during natural body functions. It integrates a sensor suite:

- ◆ **Weight Sensors:** Six load cells at 60-degree intervals providing 3D weight distribution analysis
- ◆ **Cardiac Monitoring:** ECG electrodes on seat ring and footrest for 3-channel recording
- ◆ **Respiratory Assessment:** Pulse oximetry with heart rate variability analysis

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IP Offerings

Commercializing the Technology Covered by This Patent (continued...)

The system created by this patent monitors blood pressure, body weight, temperature, blood oxygen, heart activity, and glucose levels.

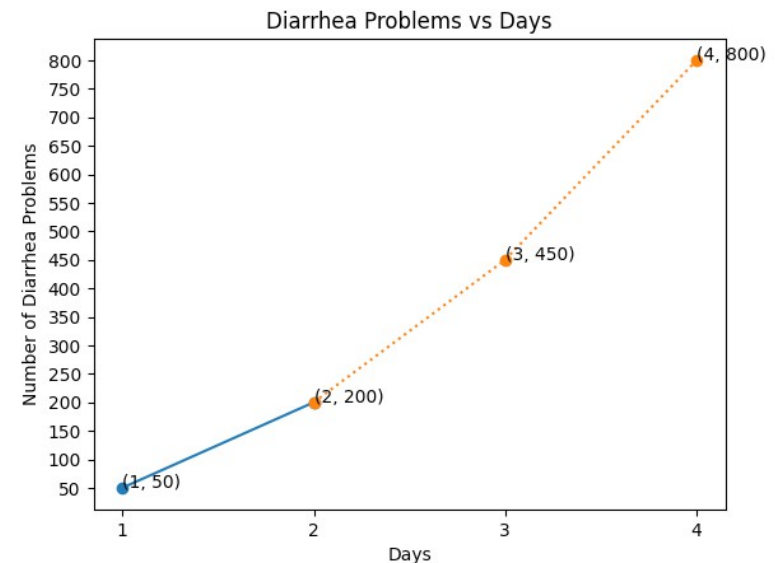
Passive Vital Signs Collection and Recording: U.S. Patent No. 12,514,413

- ◆ **Temperature Monitoring:** Infrared sensing providing non-contact measurement
- ◆ **Metabolic Assessment:** Blood pressure and glucose monitoring capability
- ◆ **User Identification:** Fingerprint sensor for multi-user household support
- ❖ **Integrated Components:** These integrated components ensure acquisition of clean, reliable, context-rich data streams essential for advanced health analytics.

Blood Pressure	Body Weight	Fever	SpO2	ECG	Sugar Level
					
2 minutes	2 minutes	2 minutes	2 minutes	10 minutes	4 minutes

- ❖ **An AI-Enabled Health Platform Opportunity:** This patent family enables the evolution from standalone medical devices to an intelligent healthcare intelligence system.

- ◆ **System Architecture:** Various devices integrated into one system
- ◆ **Edge Processing:** On-device analysis for immediate feedback and local alerts
- ◆ **Cloud Analytics:** Centralized data processing for longitudinal health trend analysis
- ◆ **AI Integration:** Machine learning models for early disease detection
- ◆ **API Ecosystem:** Seamless integration with EHRs, insurance platforms, telehealth services
- ◆ **Population Health:** Aggregated, anonymized data for epidemiological research



(Continued next page...)



Commercial- izing the Technology Covered by This Patent (continued...)

*A device based on
this patent can be
deployed across
remote healthcare,
smart homes, senior
care centers, and
modern smart
building
environments.*

Passive Vital Signs Collection and Recording: **U.S. Patent No. 12,514,413**

❖ **Clinical Decision Support:** The system transforms passive data collection into active clinical intelligence by:

- ◆ Identifying anomalous patterns days before clinical presentation
- ◆ Predicting deterioration risk through multi-parameter trend analysis
- ◆ Recommending intervention timing based on accumulated evidence
- ◆ Communicating findings to healthcare team through standardized protocols



(Continued next page...)



Commercial- izing the Technology Covered by This Patent *(continued...)*

*A device based on
this patent has
applications in
healthcare as well as
for consumers,
government, and
several specialized
markets.*

Passive Vital Signs Collection and Recording: U.S. Patent No. 12,514,413

❖ **Markets and Sales Channels:** The market for this technology expands significantly when viewed through a platform lens.

◆ **B2B Healthcare:**

- Sell to hospital systems as remote patient monitoring solution
- License to telehealth providers for integration into care platforms
- Partner with insurance companies for chronic disease management programs
- Supply to assisted living facilities and nursing homes

◆ **B2C Consumer:**

- Direct-to-consumer as premium home health monitoring system
- Distribution through pharmacy retailers and medical supply chains
- Integration with home automation vendors (smart home ecosystem)
- Subscription model for cloud monitoring and caregiver notifications

◆ **B2G Government:**

- Public health system procurement for elderly care programs
- Veteran health administration monitoring solutions
- Workplace wellness programs in government agencies
- International markets through partnerships with local distributors

◆ **Specialized Markets:**

- Livestock temperature monitoring
- Athletic medicine (performance recovery tracking)
- Corporate wellness programs (executive health monitoring)
- Insurance risk assessment (underwriting health monitoring)



Likely Acquirers or Licensees of This Patent

*Any medical device
OEM, telehealth,
Smart Home,
healthcare IT,
wellness, or insurance
company could very
profitably
commercialize this
patent.*

Passive Vital Signs Collection and Recording: **U.S. Patent No. 12,514,413**

❖ **Overview:** The acquirer of this patent will have technology that leapfrogs the technology of every one of its competitors!

Medical Device Manufacturers

- ◆ GE Healthcare
- ◆ Philips Healthcare
- ◆ Medtronic
- ◆ Siemens Healthineers
- ◆ Abbott Diagnostics
- ◆ ResMed

Telehealth and Remote Monitoring

- ◆ Teladoc
- ◆ American Well
- ◆ Amwell
- ◆ Best Doctors
- ◆ Vitals

Smart Home

- ◆ Amazon (Alexa ecosystem)
- ◆ Google (Nest ecosystem)
- ◆ Apple (HealthKit platform)
- ◆ Samsung SmartThings
- ◆ Philips Hue

Healthcare IT and EHR Providers

- ◆ Epic Systems
- ◆ Cerner Corporation
- ◆ Athenahealth
- ◆ Nextgen Healthcare

Wellness and Fitness Technology

- ◆ Fitbit/Google
- ◆ Garmin
- ◆ Apple Health
- ◆ Oura Health
- ◆ Whoop

Insurance and Care Delivery

- ◆ UnitedHealth Group
- ◆ CVS Aetna
- ◆ Humana
- ◆ Anthem
- ◆ Cigna

International Medical Equipment

- ◆ Roche
- ◆ Stryker
- ◆ Zimmer Biomet
- ◆ Baxter International
- ◆ Becton Dickinson



Acquiring or Licensing This Patent

*Here is some
additional
information about
this patent as well as
guidelines for its
acquisition or
licensing.*

Passive Vital Signs Collection and Recording: **U.S. Patent No. 12,514,413**

❖ **Patent Availability:** The owner of these patents has made them available for acquisition or exclusive/non-exclusive licensing.

◆ **Patent Status**

- Valid and enforceable through December 14, 2041
- Comprehensive protection covering apparatus and method
- Broad claim scope enabling flexible commercialization

◆ **Unencumbered**

- Clear title with no existing encumbrances or licensees
- Available for immediate transfer upon agreement

◆ **Supporting Documentation:**

- Complete file history and prosecution records available
- Technical specifications and enabling disclosures available
- Claims construction memoranda available upon request
- Prior art analysis supporting patentability available

❖ **Available Transaction Structures**

- ◆ Exclusive License
- ◆ Grant exclusive rights in specific fields of use
- ◆ Territory-specific or worldwide scope
- ◆ Royalty-bearing or paid-up arrangements
- ◆ Milestone payments based on commercialization milestones
- ◆ Non-Exclusive License
 - Permissive access for multiple licensees in different fields
 - Lower upfront licensing fees
 - Tiered royalties based on sales volume
 - Flexible payment terms

(Continued next page...)



Acquiring or Licensing This Patent (continued...)

Passive Vital Signs Collection and Recording: **U.S. Patent No. 12,514,413**

◆ Full Acquisition

- Outright purchase of all patent rights
- Complete ownership transfer
- One-time payment or structured payments
- Includes all prosecution costs and maintenance

◆ Standard Provisions

- Confidentiality and non-disclosure agreements
- Insurance coverage requirements for licensed products
- Quality control and manufacturing standards
- Field-of-use restrictions if not acquiring all rights
- Sublicensing restrictions and approval rights
- Cross-license opportunities for complementary technologies
- Dispute resolution through arbitration
- Payment schedules aligned with commercialization milestones

◆ Support and Cooperation

- Technical support during product development
- Assistance with FDA/regulatory approvals
- Clinical validation and testing support
- Market analysis and commercialization guidance
- Introduction to potential strategic partners

◆ Contact and Next Steps: Interested parties should contact IPOfferings directly with:

- Company background and relevant experience
- Proposed commercialization strategy
- Field(s) of intended use
- Financial capabilities and timeline
- Request for additional technical information

All inquiries will be treated confidentially and responded to promptly.

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IP consulting
services firm.*

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