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Wearable and Handheld Devices for Food Tracking and Nutritional Management -- 1/11/2025

Medibotics is working on wearable devices to help people track their food consumption, manage their nutritional intake, and improve their health. Current food logging apps are not automatic and tracking eating using only wearable motion sensors does not shed much light on types of food consumed. Medibotics work includes wearable devices with eating-detection sensors which activate a wearable camera to record food images only when a person is eating. Food images are then analyzed by machine to identify food types and quantities which are linked to specific nutrients using a database. This information can be used for nutritional coaching and/or as part of a glucose management system. Future product evolution can include spectroscopic analysis. Medibotics' IP portfolio for has been cited by companies and USPTO examiners in the evaluation of patent applications by: Abbott, Amazon, Apple, Blue Owl, CareBand, Cercacor Laboratories, Dexcom, Fitbit, Garmin, Google (including Verily Life Sciences), Know Labs, Lenovo, LG, Magic Leap, Medtronic, Meta, Microsoft, Movano, MyFitnessPal, Oura Health, Panasonic, Philips, Samsung, Senbiosys, and Starkey Laboratories.

| Patent | Filed | Title | |
|---------------|--------------|--------------|---|
| U.S. patent | 11754542 | 2020-01-08 | Systems for Nutritional Monitoring and Management |
| U.S. patent | 11478158 | 2019-09-12 | Wearable Ring of Optical Biometric Sensors |
| U.S. patent | 10772559 | 2018-04-25 | Wearable Food Consumption Monitor |
| U.S. patent | 10627861 | 2016-10-16 | Wearable Device for the Arm with Close-Fitting Biometric Sensors |
| U.S. patent | 10607507 | 2017-10-05 | Arcuate Wearable Device with a Circumferential or Annular Array of Spectroscopic Sensors for Measuring Hydration Level |
| U.S. patent | 10458845 | 2018-01-25 | Mobile Device for Food Identification and Quantification using Spectroscopy and Imaging |
| U.S. patent | 10314492 | 2015-11-24 | Wearable Spectroscopic Sensor to Measure Food Consumption...Light and the Human Body |
| U.S. patent | 9442100 | 2013-12-18 | Caloric Intake Measuring System using Spectroscopic and 3D Imaging Analysis |
| U.S. patent | 9254099 | 2013-05-23 | Smart Watch and Food-Imaging Member for Monitoring Food Consumption |
| U.S. patent | 9042596 | 2012-06-14 | The Willpower Watch: A Wearable Food Consumption Monitor |
| Application | 19008398 | 2025-01-02 | Eyewear with EEG Sensors for Monitoring Food Consumption |
| Application | 19008344 | 2025-01-02 | Eyewear with Eating-Activated Camera for Monitoring Food Consumption |
| Application | 19002587 | 2024-12-26 | Biometric Wearable Device (e.g. Finger Ring) with Radiowave or Microwave Energy Emitters/Transmitters |
| Application | 19002583 | 2024-12-26 | Biometric Wearable Device (e.g. Smart Watch) with Radiowave or Microwave Energy Emitters/Transmitters |
| Application | 18977825 | 2024-12-11 | Biometric Wearable Device (e.g. Finger Ring or Smart Watch) with Optical Sensors and Body-Facing Protrusions |
| Application | 18977824 | 2024-12-11 | Biometric Wearable Device (e.g. Finger Ring or Smart Watch) with Optical Sensors and Scanning Light Beams |
| Application | 18929026 | 2024-10-28 | Automatically Tracking One's Food Consumption Using the "Jedi Mind Trick" Hand Motion |
| Application | 18885728 | 2024-09-15 | Wearable Device with a Circular or Polygonal Array of Light Emitters and Light Receivers to Measure Biometric Parameters |
| Application | 18775128 | 2024-07-17 | Nerd of the Rings (Smart Ring with Spectroscopic Sensors) |
| Application | 18617950 | 2024-03-27 | Detecting Unhealthy Food and Using Tactile and/or Haptic Sensations to Reduce a Person's Consumption of the Unhealthy Food |
| Application | 18121841 | 2023-03-15 | Devices, Systems, and Methods, including Augmented Reality (AR) Eyewear, for Estimating Food Consumption and Providing Nutritional Coaching |