

# OmnySense Awarded US Patent on Smart-Thermometer with Integrated 3/6-Lead ECG

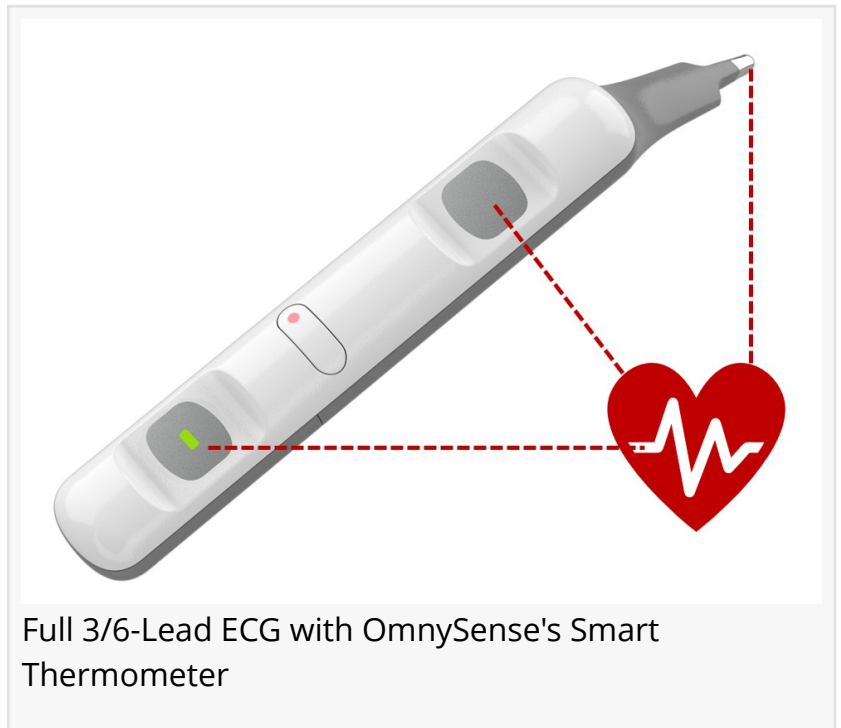
*The patent covers OmnySense's revolutionary method of performing a full 3/6-Lead ECG each time the patient "takes his temperature"*

TEL AVIV, ISRAEL, November 8, 2024 /EINPresswire.com/ -- Currently, home

ECG readings either use a simple device to record a 1-Lead ECG trace (which just measures the signal from left-hand to right hand), or require the user to attach electrodes to the leg and/or chest in order to provide a more detailed picture. Attaching such additional electrodes requires partial undressing and is cumbersome and complex. [OmnySense](#) has invented a

way of providing a full 3/6-Lead ECG without requiring the placement of additional electrodes on the body. The technology to accomplish this involves exploiting the metallic tip of a "smart-thermometer" device as an ECG electrode, and implementing a transformation of the signals detected between the fingers (on the device) and the mouth into a standard 3/6-Lead trace. This method allows for the detection of anomalies across six pathways of the heart, significantly enhancing the ability to detect cardiac problems compared to the limited 1-Lead ECG. This ability, together with OmnySense algorithms for calculating the standard cardiac parameters from the signal detected across each lead, provides a powerful tool for tracking cardiac performance and enabling analysis using the company's AI approach.

OmnySense Ltd., an Israeli digital-health startup, is developing a unique solution which provides the home user with an informed medical assessment at home, powered by state-of-the-art Medical Language Models (Med LMs). The company's thermometer-shaped device is the only one capable of capturing a comprehensive dataset of clinical parameters simultaneously and consistently, including cardiac data from 6 leads, respiratory data and vital signs. This dataset - together with the patient's symptoms and medical history - is analyzed using Med LMs to provide an automatic assessment directly to the user, and can also be shared with a remote physician, caregiver etc.





This breakthrough technology coupled with automatic assesment directly to consumers, has numerous exciting applications, from monitoring cardiac conditions at home to supporting cardiac rehabilitation”

*Ian Solomon - CTO*

Ian Solomon, CTO of OmnySense, stated: "We are delighted to have been awarded this US patent, which we see as validating the originality of our next-generation smart-thermometer technology. This breakthrough technology places high-end ECG analysis directly into the hands of the consumer, with the ability to provide him/her with automatic medical assessments based on a very broad dataset. The applications are numerous, from monitoring cardiac conditions at home to supporting cardiac rehabilitation."

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