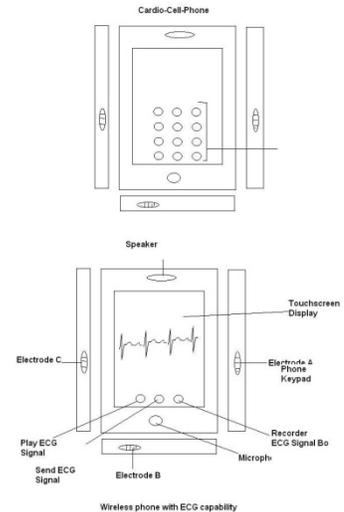


CARDIOPHONE®

- The ECG phone
- A technology that enables continuous wireless cardiac monitoring

TECHNOLOGY BRIEF OVERVIEW

The Cardiophone is basically a mobile wireless telephone with electrocardiogram (ECG) capture and monitoring capabilities. Three electrodes, embedded in the phone case, enable the capture of cardiac electric signals which are converted to a form suitable for transmission to a central server monitoring facility. The ECG virtual tracings become then available for evaluation by clinical physicians or cardiology specialists. The Cardiophone is essentially a mobile cellular wireless telephone with all the communication features found in many multifunction wireless telephones in the market, i.e. Iphone, Blackberry, Google phone, or PDAs. The ECG signal is displayed in the touch sensitive screen. Upon transmission, the ECG signals received by the Cardiophone are sent on demand to a central cardiac monitoring system at any time during day or night and irrespective of the day of the week. At the same time, a text message is sent to the attending physician who can receive the information and download it to the personal cell phone.



In 2010, about 1,500,000 Americans will be diagnosed with Coronary Artery Disease (CAD) of varying severity. Of those affected by CAD, and at least in one third of the diagnosed cases, the first symptoms can warn of impending sudden death. Thus, it is most important that an ECG is captured as soon as possible to rule out arrhythmia. A large number of cardiac sudden deaths are related to arrhythmias, which can have poor prognosis if not treated expeditiously.

The intellectual property of this device describes in full the technology for mobile wireless telephone ECG monitoring which can be sent to a data center and then the patient is made aware of the problem very quickly. In case of a serious emergency, and provided the patient remains conscious, the medical professional from the monitoring center can communicate expeditiously with the patient, take the history and symptoms and provide further instructions. In addition, the GPS function can determine where the patient is and a paramedic team be sent to the patient via the medical emergency line. If the patient is not entirely conscious, those persons providing lay assistance can use the patient's Cardiophone and contact the medical center for instructions until professional help arrives. In short, this technology will shorten the interval between the patient experiencing symptoms and the time for the patient to receive emergency medical assistance, which in many cases may reduce the mortality from coronary occlusive events.

ENVISAGED MEDICAL EMERGENCY SCENARIO

The Cardiophone receives ECG signals from the patient carrying the device

- The Cardiophone relays the signal to the server
- The specialized server communicates with the emergency monitoring services, for specialized assessment
- The Cardiophone can be setup to send a text message to the patient's physician
- The attending physician can download the ECG and have an immediate evaluation of the cardiac event
- The Emergency Center can establish direct communication with the patient for information, provide real-time instructions and locate the patient via GPS and direct the paramedic team nearest to the patient. The Emergency Center can direct the patient to nearest hospital if the patient has lost consciousness.

BENEFITS EXPECTED FROM THIS TECHNOLOGY

By reducing the time between cardiac event and medical management, there will be a controlled approach to reduce the long term consequences of the event. There is no special training needed, since the use of mobile phones is common place in civilized areas and remote locations.

The wireless technology is in place not only in the USA but worldwide. Most phones have already built-in internet and message communication, so the need for developing a communication infrastructure, such as the existing wireless networks, is not necessary.

The cost of the monitoring technology via the Cardiophone will eliminate the need for an ECG machine, will eliminate the need of positioning electrodes, will eliminate the need of paramedic teams having ECG machines in their armamentarium and will facilitate resuscitation procedures.

All, signals captured by the Cardiophone will be stored in specialized commonplace servers for real time evaluation by physicians wherever they are when the cardiac event develops in the patient. Plans are in place to develop a clinical trial program and expedited FDA approval.

The inventor of this technology is Dr. Michael Gerber, a certified cardiologist and an experienced innovator in medical devices.

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