

ABSTRACT

**WEARABLE ELECTROCARDIOGRAPHY (ECG) MONITORING TECHNOLOGY  
WITH SEALED TANK FOR MEDICATION AND INTEGRATED MEDICAL  
MONITORING SYSTEM**

5       The present invention refers to a wearable, individual,  
customized and different sized technology for men and women,  
composed of electrodes, conductive track and airtight  
container for medicines, coupled to one another, and a mini  
electrocardiogram (ECG) apparatus containing a GSM (Global  
10 System Mobile) modem and a GPS (Global Positioning System)  
or a Bluetooth system which, through a wireless network  
specification within a personal scope (Wireless Personal  
Area Networks - PANs) deemed as PAN-type or even WPAN, the  
electrical signal acquisition begins when the user press the  
15 button down. It is in the field of medical, recreational  
and/or sport applications, aiming at monitoring patients at  
high cardiovascular risk, being possible to diagnose it as  
soon as possible, aiming at shortening time to definite  
treatment of those who present acute coronary syndrome (ACS),  
20 acute myocardial infarction (AMI), acute atrial  
fibrillation-type (AAF) cardiac arrhythmias, and other  
cardiac arrhythmias or other cardiac pathologies capable to  
be detected by the electrocardiographic trace. Moreover the  
invention has tools to analyze a bunch of data - big data  
25 analytics and deeplearning - by utilizing artificial  
intelligence. Finally, the invention also has a module to  
proper administer the drug contained into the airtight  
container.

30 Figure 4