

DECLARATION OF GERARD P. GRENIER

I, Gerard P. Grenier, am over twenty-one (21) years of age. I have never been convicted of a felony, and I am fully competent to make this declaration. I declare the following to be true to the best of my knowledge, information and belief:

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3. Neither I nor IEEE itself is being compensated for this declaration.
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8. The articles below, along with their abstracts, have been attached as Exhibits A – C to this declaration:

A.	G.S. Gupta, et al. "Design of a Low-cost Physiological Parameter Measurement and Monitoring Device" IEEE Instrumentation and Measurement Technology Conference Proceedings, May 1 – 3, 2007.
B.	L. Wang et al., "Multichannel Reflective PPG Earpiece Sensor With Passive Motion Cancellation" IEEE Transactions on Biomedical Circuits and Systems, Vol. 1, Issue 4, December 2007.
C.	H. Han, Y. Lee, and J. Kim, "Development of a wearable health monitoring device with motion artifact reduced algorithm (ICCAS 2007)" International Conference on Control, Automation and Systems, 2007, October 17 – 20, 2007.

9. I obtained copies of Exhibits A – C through IEEE Xplore, where they are maintained in the ordinary course of IEEE’s business. Exhibits A – C are true and correct copies of the Exhibits as it existed on or about October 25, 2016.
10. The article abstracts from IEEE Xplore shows the date of publication. IEEE Xplore populates this information using the metadata associated with the publication.
11. G.S. Gupta, et al. “Design of a Low-cost Physiological Parameter Measurement and Monitoring Device” was published as part of the IEEE Instrumentation and Measurement Technology Conference Proceedings. The IEEE Instrumentation and Measurement Technology Conference was held from May 1 – 3, 2007. Attendees of the conference were provided copies of the publication no later than the last day of the conference. The article is currently available for public download from the IEEE digital library, IEEE Xplore.
12. L. Wang et al., “Multichannel Reflective PPG Earpiece Sensor With Passive Motion Cancellation” IEEE Transactions on Biomedical Circuits and Systems, Vol. 1, Issue 4. IEEE Transactions on Biomedical Circuits and Systems, Vol. 1, Issue 4 was published in December 2007. Copies of this publication were made available no later than the last day of the stated publication month. The article is currently available for public download from the IEEE digital library, IEEE Xplore.
13. H. Han, Y. Lee, and J. Kim, “Development of a wearable health monitoring device with motion artifact reduced algorithm (ICCAS 2007)” was published as part of the International Conference on Control, Automation and Systems, 2007. The International Conference on Control, Automation and Systems, 2007 was held from October 17 – 20, 2007. Attendees of the conference were provided copies of the publication no later than the last day of the conference. The article is currently available for public download from the IEEE digital library, IEEE Xplore.
14. I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true, and further that these statements were made with the knowledge that willful false statements and the like are punishable by fine or imprisonment, or both, under 18 U.S.C. § 1001.

I declare under penalty of perjury that the foregoing statements are true and correct.

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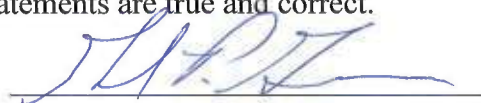


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G. Sen Gupta ; S.C. Mukhopadhyay ; B.S. Devlin ; S. Demidenko

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Abstract:

In this paper we present the design of a low-cost system that can be used to monitor physiological parameters, such as temperature and heart rate, of a human subject. The system consists of an electronic device which is worn on the wrist and finger, by an elderly or at-risk person. Using several sensors to measure different vital signs, the person is wirelessly monitored within his own home. An impact sensor has been used to detect falls. The device detects if a person is medically distressed and sends an alarm to a receiver unit that is connected to a computer. This sets off an alarm, allowing help to be provided to the patient. The device is battery powered for use indoors. The device can be easily adapted to monitor athletes and infants. The low cost of the device will help to lower the cost of home monitoring of patients recovering from illness. A prototype of the device has been fabricated and extensively tested with very good results.

Published in: Instrumentation and Measurement Technology Conference Proceedings, 2007. IMTC 2007. IEEE

Date of Conference: 1-3 May 2007

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Contents

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INSPEC: Controlled Indexing

telemedicine, biomedical telemetry, patient monitoring, physiology

INSPEC: Non-Controlled Indexing

wireless transmission, low-cost physiological parameter measurement, monitoring device, electronic device, vital signs, impact sensor, patients monitoring

Author Keywords

home monitoring, physiological parameters, sensors, wireless transmission

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