

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:

- 1. I am Senior Director of Publishing Technologies of the Institute of Electrical and Electronics Engineers, Inc. ("IEEE").
- 2. IEEE is a neutral third party in this dispute.
- 3. Neither I nor IEEE itself is being compensated for this declaration.
- 4. Among my responsibilities as Senior Director of Publishing Technologies, I act as a custodian of certain records for IEEE.
- 5. I make this declaration based on my personal knowledge and information contained in the business records of IEEE.
- 6. As part of its ordinary course of business IEEE publishes and makes available technical articles and standards. These publications are made available for public download through the IEEE digital library, IEEE Xplore.
- 7. It is the regular practice of IEEE to publish articles and other writings including article abstracts and make them available to the public through IEEE Xplore. IEEE maintains copies of publications in the ordinary course of its regularly conducted activities.
- 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.
С.	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.

Find authenticated court documents without watermarks at docketalarm.com.

- 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.

Executed on: 25-0ct. 2016

DOCKE

EXHIBIT A

DOCKET A L A R M Find authenticated court documents without watermarks at <u>docketalarm.com</u>.

10/25/2016	IEEE Xp	olore Document - Des	ign of a Low-cost P	hysiological Parame	eter Measure	ment and Mo	nitoring Device		
IEEE.org IEEE Xplore Digital Library IEEE-SA IEEE Spe			ectrum More Sites			Cart (0) Create Account Personal Sign In			
			Institutio	onal Sign In					
BROWSE		MY SETTINGS	GET HELP	WHAT CAN I ACC	CESS?	SUBSCRIBE			
	s > Instrumentation and M		al Paramet	er	Rel	ated Articles		to Results Next >	
-	Sign In	nitoring Dev			Wea med devi tele-	rable	A WBAN-based System for Health Monitoring at Home	A twenty-four hour tele- nursing system using a ri	
4 G. Sen Gupta ; S.C. Mukhopadhyay ; B.S. Devlin ; S. Demidenko							View All Authors		
Abstract	Authors F	Figures Refer	ences Cita	tions Keywo	ords	Metrics	Media		
human subject sensors to me device detects help to be prov low cost of the	te present the design of t. The system consists asure different vital sig if a person is medical vided to the patient. Th a device will help to low by tested with very goo	s of an electronic dev gns, the person is wir Ily distressed and ser e device is battery po ver the cost of home r	ice which is worn o elessly monitored nds an alarm to a r owered for use indo	on the wrist and finge within his own home eceiver unit that is c pors. The device car	er, by an eld e. An impact connected to n be easily a	erly or at-risk sensor has b a computer. ⁻ dapted to mo	person. Using s een used to dete This sets off an nitor athletes an	several ect falls. The alarm, allowing d infants. The	
Published in:	Instrumentation and M	leasurement Technol	ogy Conference P	roceedings, 2007. IN	MTC 2007. II	EEE			
Date of Confe	erence: 1-3 May 2007			INSPEC Accessior	n Number: 🤅	9717999			
Date Added to IEEE Xplore: 25 June 2007				DOI: 10.1109/IMTC.2007.378997					

ISBN Information:

Print ISSN: 1091-5281

E Contents

Publisher: IEEE

	Download PDF I. Introduction Many elderly people dread the idea of being forced to live with their adult children, or in a rest home or	Download I
Full Text	Download Citations Download Citations Download Citations	Download Citatio
Abstract	View References Stroke. With the population aging in most developing countries, there will be more and more elderly View References people living alone in future. Such people need to be monitored continuously and provided with immediate medical help and attention when required. Stroke.	View References
Authors	Email Read document	Email
Figures	Print	Print
References	Keywords	
	Request Permissions IEEE Konwords	Request Permis
	OCKET LAR B Eind authenticated court documents without watermarks at docketalarm com	D O C k
Figure	Email Read document Print Keywords Request Permissions IEEE Keywords	Print Request Permis

10/25/2016

IEEE Xplore Document - Design of a Low-cost Physiological Parameter Measurement and Monitoring Device

25/2016	IEEE Xplore Document - Design of a Low-cost Physiological Parameter Measurement and Monitoring Device	Keywords
Share	INSPEC: Controlled Indexing telemedicine, biomedical telemetry, patient monitoring, physiology	Back to Top
Alerts	INSPEC: Non-Controlled Indexing wireless transmission, low-cost physiological parameter measurement, monitoring device, electronic	
Related Articles	device, vital signs, impact sensor, patients monitoring	
» Wearable medical devices for tele- home healthcare K. Hung; Y.T. Zhang; B. T	Author Keywords home monitoring, physiological parameters, sensors, wireless transmission	
» A WBAN-based System for Health Monitoring at Home Chris A. Otto; Emil Jovan	Authors G. Sen Gupta School of Electrical and Electronic Engineering, Singapore Polytechnic, 500 Dover Road, Singapore. Email: SenGupta@sp.edu.sg	
» A twenty-four hour tele-nursing system using a ri Boo-Ho Yang; Sokwoo Rhe	S.C. Mukhopadhyay Institute of Information Sciences and Technology, Massey University, Palmerston North, New Zealand. Email: s.c.mukhopadhyay@massey.ac.nz B.S. Devlin	
 » Long term remote behavioral monitoring of elderly M. Ogawa; R. Suzuki; S. O 	S. Devilli Institute of Information Sciences and Technology, Massey University, Palmerston North, New Zealand. Email: b.s.devlin@massey.ac.nz S. Demidenko Institute of Information Sciences and Technology, Massey University,	
» A Passive and Portable System for Monitoring Hear D.C. Mack; M. Alwan; B. T	Palmerston North, New Zealand. Email: s.demidenko@massey.ac.nz	
» A Heart Pulse Monitoring System by Air Pressure a Yutaka Hata; Yuya Kamozak		
» Smart wearables for remote health monitoring, fro A. Lymberis		
» Wireless ECG monitoring system Dina Simunic; Slaven Toma		

 » A Wireless Medical Monitoring Over a Heterogeneou... Mehmet R. Yuce; Peng Choo...

» A MICS Band Wireless Body Sensor Network Mehmet R. Yuce; Steven W....

DOCKET

Δ

DOCKET A L A R M



Explore Litigation Insights

Docket Alarm provides insights to develop a more informed litigation strategy and the peace of mind of knowing you're on top of things.

Real-Time Litigation Alerts



Keep your litigation team up-to-date with **real-time alerts** and advanced team management tools built for the enterprise, all while greatly reducing PACER spend.

Our comprehensive service means we can handle Federal, State, and Administrative courts across the country.

Advanced Docket Research



With over 230 million records, Docket Alarm's cloud-native docket research platform finds what other services can't. Coverage includes Federal, State, plus PTAB, TTAB, ITC and NLRB decisions, all in one place.

Identify arguments that have been successful in the past with full text, pinpoint searching. Link to case law cited within any court document via Fastcase.

Analytics At Your Fingertips



Learn what happened the last time a particular judge, opposing counsel or company faced cases similar to yours.

Advanced out-of-the-box PTAB and TTAB analytics are always at your fingertips.

API

Docket Alarm offers a powerful API (application programming interface) to developers that want to integrate case filings into their apps.

LAW FIRMS

Build custom dashboards for your attorneys and clients with live data direct from the court.

Automate many repetitive legal tasks like conflict checks, document management, and marketing.

FINANCIAL INSTITUTIONS

Litigation and bankruptcy checks for companies and debtors.

E-DISCOVERY AND LEGAL VENDORS

Sync your system to PACER to automate legal marketing.