

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number	15162544
	Filing Date	2016-05-23
	First Named Inventor	Shrenik Vora
	Art Unit	3735
	Examiner Name	Charles Alan MARMOR II
	Attorney Docket Number	DRX.P015.US.01

U.S.PATENTS						Remove
Examiner Initial*	Cite No	Patent Number	Kind Code ¹	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	7595723	B2	2009-09-29	Heitzmann et al.	Entire Document
	2	7827011	B2	2010-11-02	DeVaul et al.	Entire Document
	3	7979111	B2	2011-07-12	Acquista	Entire Document
	4	8115600	B2	2012-02-14	Stevenson et al.	Entire Document
	5	8361000	B2	2013-01-29	Gaspard	Entire Document
	6	8454528	B2	2013-06-04	Yuen et al.	Entire Document
	7	8527038	B2	2013-09-03	Moon et al.	Entire Document
	8	8564452	B2	2013-10-22	Schaible et al.	Entire Document

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Not for submission under 37 CFR 1.99)

Application Number	15162544
Filing Date	2016-05-23
First Named Inventor	Shrenik Vora
Art Unit	3735
Examiner Name	Charles Alan MARMOR II
Attorney Docket Number	DRX.P015.US.01

9	8750971	B2	2014-06-10	Tran	Entire Document
10	8920332	B2	2014-12-30	Hong et al.	Entire Document
11	8945017	B2	2015-02-03	Venkatraman et al.	Entire Document
12	8977351	B2	2015-03-10	KIVISTÖ	Entire Document
13	9282893	B2	2016-03-15	LONGINOTTI-BUITONI et al.	Entire Document
14	9323966	B2	2016-04-26	Deyle	Entire Document

If you wish to add additional U.S. Patent citation information please click the Add button.

Add

U.S.PATENT APPLICATION PUBLICATIONS

Remove

Examiner Initial*	Cite No	Publication Number	Kind Code ¹	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
	1	20070232867	A1	2007-10-04	Hansmann	Entire Document
	2	20110263950	A1	2011-10-27	Larson et al.	Entire Document
	3	20130060098	A1	2013-03-07	Thomsen et al.	Entire Document

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Not for submission under 37 CFR 1.99)

Application Number	15162544
Filing Date	2016-05-23
First Named Inventor	Shrenik Vora
Art Unit	3735
Examiner Name	Charles Alan MARMOR II
Attorney Docket Number	DRX.P015.US.01

4	20140094675	A1	2014-04-03	Luna et al.	Entire Document
5	20140100432	A1	2014-04-10	Golda et al.	Entire Document
6	20140135593	A1	2014-05-15	Jayalath et al.	Entire Document
7	20140316229	A1	2014-10-23	Tognetti et al.	Entire Document
8	20150099941	A1	2015-04-09	Tran	Entire Document
9	20150129664	A1	2015-05-14	Brar	Entire Document
10	20160034731	A1	2016-02-04	Lin	Entire Document
11	20160051153	A1	2016-02-25	Mously	Entire Document
12	20160120434	A1	2016-05-05	Park et al.	Entire Document

If you wish to add additional U.S. Published Application citation information please click the Add button.

FOREIGN PATENT DOCUMENTS

Examiner Initial*	Cite No	Foreign Document Number ³	Country Code ² i	Kind Code ⁴	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear	T ⁵
-------------------	---------	--------------------------------------	-----------------------------	------------------------	------------------	---	--	----------------

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Not for submission under 37 CFR 1.99)

Application Number	15162544
Filing Date	2016-05-23
First Named Inventor	Shrenik Vora
Art Unit	3735
Examiner Name	Charles Alan MARMOR II
Attorney Docket Number	DRX.P015.US.01

1	202408883	CN	U	2012-09-05	Wei Wang	Entire Document	<input checked="" type="checkbox"/>
2	2014100687	WO	A2	2014-06-26	Kamen et al.	Entire Document	<input type="checkbox"/>

If you wish to add additional Foreign Patent Document citation information please click the Add button

NON-PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T ⁵
	1	ARTEM DEMENTYEV, JOSHUA R. SMITH, "A Wearable UHF RFID-Based EEG System," University of Washington, 2013 IEEE, Seattle, WA, Entire Document.	
	2	B.-J. JANG, S.-H. WI AND J.-G. YOON, M.-Q. LEE, K.-J. LEE, "Wireless Bio-Radar Sensor For Heartbeat And Respiration Detection," Progress In Electromagnetics Research C, Vol. 5, 149-168, 2008	
	3	CHRISTOPH BRÜSER, KURT STADLTHANNER, ANDREAS BRAUERS, STEFFEN LEONHARDT, "Applying Machine Learning to Detect Individual Heart Beats inBallistocardiograms," IEEE EMBS, Buenos Aires, Argentina, 2010, Entire Document.	
	4	DAMIANO PATRON, TIMOTHY KURZWEIG, ADAM FONTECCHIO, GENEVIEVE DION, AND KAPIL R. DANDEKAR, "Wireless Strain Sensor Through a Flexible Tag Antenna Employing Inductively-Coupled RFID Microchip," Drexel University, Philadelphia, PA, IEEE, 2014, Entire Document.	
	5	DAVID M W POWERS, "Evaluation: From Precision, Recall and F-Factor to ROC, Informedness, Markedness & Correlation," Flinders University of South Australia School of Informatics and Engineering, South Australia, December 2007, Entire Document.	
	6	F-JAN WANG, LUN-DE LIAO, YU-TE WANG, CHI-YU CHEN, BOR-SHYH LIN, SHAO-WEI LU, CHIN-TENG LIN, "A Wearable Mobile Electrocardiogram Measurement Device with Novel Dry Polymerbased Electrodes," Tencon 2010, IEEE, Entire Document.	
	7	JORDAN S. BESNOFF, TRAVIS DEYLE, REID R. HARRISON, MATTHEW S. REYNOLDS, "Battery-Free Multichannel Digital ECG Biotelemetry using UHF RFID Techniques," Duke University, IEEE, 2013, Durham, NC, Entire Document.	

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Not for submission under 37 CFR 1.99)

Application Number	15162544
Filing Date	2016-05-23
First Named Inventor	Shrenik Vora
Art Unit	3735
Examiner Name	Charles Alan MARMOR II
Attorney Docket Number	DRX.P015.US.01

8	KONG Y. CHEN, KATHLEEN F. JANZ, WEIMO ZHU, AND ROBERT J. BRYCHTA, "Re-Defining the Roles of Sensors in Objective Physical Activity Monitoring," National Institute of Health, 2012, Entire Document.
9	M. CALDARAA, B. NODARIA, V. REA, B. BONANDRINIB, "Miniaturized and low-power blood pressure telemetry system with RFID interface," Procedia Engineering, ScienceDirect, Volume 87, 2014, Pages 344-347, Italy.
10	MATTHAI PHILOPOSE, JOSHUA R. SMITH, BING JIANG, ALEXANDER MAMISHEV, SUMIT ROY, KISHORE SUNDARA-RAJAN, "Battery-Free Wireless Identification and Sensing," Energy Harvesting & Conservation, IEEE, 2005, Entire Document.
11	PING JACK SOH, GUY A.E. VANDENBOSCH, MARCO MERCURI, AND DOMINIQUE M.M.-P. SCHREURS, "Wearable Wireless Health Monitoring," IEEE, May 2015, Entire Document.
12	ROBERT MATTHEWS, NEIL J. MCDONALD, PAUL HERVIEUX, PETER J. TURNER, AND MARTIN A. STEINDORF, "A Wearable Physiological Sensor Suite for Unobtrusive Monitoring of Physiological and Cognitive State," IEEE, France, 2007, Entire Document.
13	SAMIRA JAAFARI, "Adaptive Filtering for Heart Rate Signals," San Jose Statue University, SJSU ScholarWorks, May 2014, Entire Document.
14	STANISLAW OSOWSKI, LINH TRAN HOAI, AND TOMASZ MARKIEWICZ, "Support Vector Machine-Based Expert System for Reliable Heartbeat Recognition," IEEE Transactions On Biomedical Engineering, Vol. 51, No. 4, April 2004, Entire Document.
15	W. MONGAN, K. DANDEKAR, G. DION, T. KURZWEIG AND A. FONTECCHIO, "Statistical Analytics of Wearable Passive RFID-based Biomedical Textile Monitors for Real-Time State Classification," Drexel University, IEEE, 2015, Entire Document.
16	YU M. CHI AND GERT CAUWENBERGHS, "Wireless Non-contact EEG/ECG Electrodes for Body Sensor Networks," University of California, San Diego, IEEE 2010, Entire Document.

If you wish to add additional non-patent literature document citation information please click the Add button

EXAMINER SIGNATURE

Examiner Signature	<input type="text"/>	Date Considered	<input type="text"/>
--------------------	----------------------	-----------------	----------------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT
(Not for submission under 37 CFR 1.99)**

Application Number	15162544
Filing Date	2016-05-23
First Named Inventor	Shrenik Vora
Art Unit	3735
Examiner Name	Charles Alan MARMOR II
Attorney Docket Number	DRX.P015.US.01

¹ See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. ² Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). ³ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁴ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁵ Applicant is to place a check mark here if English language translation is attached.

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Not for submission under 37 CFR 1.99)

Application Number	15162544
Filing Date	2016-05-23
First Named Inventor	Shrenik Vora
Art Unit	3735
Examiner Name	Charles Alan MARMOR II
Attorney Docket Number	DRX.P015.US.01

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

See attached certification statement.

The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Stephen B. Schott/	Date (YYYY-MM-DD)	2017-03-31
Name/Print	Stephen B. Schott	Registration Number	51294

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these records.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.