

TRADEMARK ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

ETAS ID: TM533050

SUBMISSION TYPE:	NEW ASSIGNMENT		
NATURE OF CONVEYANCE:	SECURITY INTEREST		
CONVEYING PARTY DATA			
Name	Formerly	Execution Date	Entity Type
EARLYSENSE LTD.		07/11/2019	Limited Liability Company: ISRAEL
RECEIVING PARTY DATA			
Name:	KREOS CAPITAL VI (EXPERT FUND) L.P.		
Street Address:	47 ESPLANADE		
City:	ST HELIER		
State/Country:	JERSEY		
Entity Type:	Limited Partnership: JERSEY		
PROPERTY NUMBERS Total: 2			
Property Type	Number	Word Mark	
Serial Number:	77037537	EARLYSENSE	
Serial Number:	86654650	EARLYSENSE INSIGHT	
CORRESPONDENCE DATA			
Fax Number:			
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>			
Email:	aaron.lewin@jmbdavis.com		
Correspondent Name:	JMB DAVIS BEN-DAVID		
Address Line 1:	8 HARTOM STREET		
Address Line 2:	PO BOX 45087		
Address Line 4:	JERUSALEM, ISRAEL		
NAME OF SUBMITTER:	AARON LEWIN		
SIGNATURE:	/AARON LEWIN/		
DATE SIGNED:	07/23/2019		
Total Attachments: 27			
source=EarlySense - US IP Security Agreement Fully Executed 110719#page1.tif			
source=EarlySense - US IP Security Agreement Fully Executed 110719#page2.tif			
source=EarlySense - US IP Security Agreement Fully Executed 110719#page3.tif			
source=EarlySense - US IP Security Agreement Fully Executed 110719#page4.tif			
source=EarlySense - US IP Security Agreement Fully Executed 110719#page5.tif			

OP \$65.00 77037537

source=EarlySense - US IP Security Agreement Fully Executed 110719#page6.tif
source=EarlySense - US IP Security Agreement Fully Executed 110719#page7.tif
source=EarlySense - US IP Security Agreement Fully Executed 110719#page8.tif
source=EarlySense - US IP Security Agreement Fully Executed 110719#page9.tif
source=EarlySense - US IP Security Agreement Fully Executed 110719#page10.tif
source=EarlySense - US IP Security Agreement Fully Executed 110719#page11.tif
source=EarlySense - US IP Security Agreement Fully Executed 110719#page12.tif
source=EarlySense - US IP Security Agreement Fully Executed 110719#page13.tif
source=EarlySense - US IP Security Agreement Fully Executed 110719#page14.tif
source=EarlySense - US IP Security Agreement Fully Executed 110719#page15.tif
source=EarlySense - US IP Security Agreement Fully Executed 110719#page16.tif
source=EarlySense - US IP Security Agreement Fully Executed 110719#page17.tif
source=EarlySense - US IP Security Agreement Fully Executed 110719#page18.tif
source=EarlySense - US IP Security Agreement Fully Executed 110719#page19.tif
source=EarlySense - US IP Security Agreement Fully Executed 110719#page20.tif
source=EarlySense - US IP Security Agreement Fully Executed 110719#page21.tif
source=EarlySense - US IP Security Agreement Fully Executed 110719#page22.tif
source=EarlySense - US IP Security Agreement Fully Executed 110719#page23.tif
source=EarlySense - US IP Security Agreement Fully Executed 110719#page24.tif
source=EarlySense - US IP Security Agreement Fully Executed 110719#page25.tif
source=EarlySense - US IP Security Agreement Fully Executed 110719#page26.tif
source=EarlySense - US IP Security Agreement Fully Executed 110719#page27.tif

U.S. INTELLECTUAL PROPERTY SECURITY AGREEMENT

This U.S. INTELLECTUAL PROPERTY SECURITY AGREEMENT (“**IP Security Agreement**”) dated July 11, 2019, is made by and between (i) EarlySense Ltd., a company incorporated in Israel under registered number 513609552 whose registered office is at 7 Jabotinsky St., Ramat Gan, Israel (“**Grantor**”); and (ii) Kreos Capital VI (Expert Fund) LP, a partnership incorporated in Jersey under registered number 2770 whose registered office is at 47 Esplanade, St Helier, Jersey; (“ the “**Lender**” which expression shall include its respective successors and assigns).

WHEREAS, the Lender and the Grantor, shall enter into a certain Agreement for the Provision of a Loan Facility dated on or about the date hereof (the “**Loan Agreement**”), to which a Debenture - Floating Charge (the “**Debenture - Floating Charge**”) and a Debenture - Fixed Charge (the “**Debenture - Fixed Charge**”), in each case executed by the Grantor and the Lender, are attached as exhibits; and

WHEREAS, under the terms of the Debenture - Floating Charge, the Grantor has agreed, among other things, to grant a first priority floating charge over the intellectual property of the Grantor to the Lender and under the Debenture - Fixed Charge, the Grantor has agreed, among other things, to grant a first priority fixed charge over certain specific intellectual property of Grantor to the Lender, and the Grantor has agreed as a condition thereof and in addition to the creation of the charges pursuant to the Debenture - Fixed Charge and the Debenture - Floating Charge, to execute this IP Security Agreement for recording with the U.S. Patent and Trademark Office on any intellectual property owned by it throughout the term of this IP Security Agreement.

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, and intending to be legally bound hereby, the Grantor agrees as follows:

Section 1. Grant of Security. Subject to the provisions of the Debenture – Floating Charge and the Debenture - Fixed Charge (collectively, the “**Charge Agreements**”), the Grantor hereby grants to the Lender a security interest in and to all right, title and interest to (i) the registered United States patents and pending applications as set forth in Schedule A hereto together with all reissues, divisions, continuations, continuations-in-part, extensions and reexaminations thereof, and all rights therein provided by international treaties or conventions (the “**Patents**”), (ii) the registered trademarks, service marks, trade names and domain names, and applications therefor as set forth in Schedule A hereto together with all goodwill associated with such trademarks and service marks and all rights therein provided by international treaties or conventions (the “**Trademarks**”), and (iii) all copyrights and registrations and applications therefor set forth in Schedule A (the “**Copyrights**”), all as currently owned by the Grantor or which shall be owned in the future by the Grantor (the “**Collateral**”). Schedule A shall be updated pursuant to the provisions of Section 3.8 of the Loan Agreement upon the application for, or acquisition of, any new Patents or Trademarks in the United States by the Grantor and/or the application for, or acquisition of, any new Copyrights (whether registered or not), and the Grantor shall file amendments to Schedule A to that effect pursuant to said subsection of the Loan Agreement.

Section 2. Security for Obligations. The grant of a security interest in the Collateral by the Grantor to the Lender under this IP Security Agreement secures the performance of all obligations and the payment of all money and liabilities owed or incurred by the Grantor to the Lender, now or hereafter existing under or in respect of the Loan Agreement, and the Charge Agreements and any amendment thereof (the “Secured Obligations”).

Section 3. Recordation. The Grantor authorizes and requests that the Commissioner of Patents and Trademarks record this IP Security Agreement.

Section 4. Right to Request Information. The Lender shall have the right to request, and the Grantor shall promptly provide upon such request, information reasonably required in order to confirm that Schedule A is updated.

Section 5. Grants, Rights and Remedies. This IP Security Agreement has been entered into in conjunction with the provisions of the Loan Agreement and the Charge Agreements. The Parties do hereby acknowledge and confirm that the grant of the security interest hereunder to, and the rights and remedies of, the Lender with respect to the Collateral are more fully set forth in the Loan Agreement and/or the Charge Agreements and in the event of any contradiction between this IP Security Agreement and the Loan Agreement or the Charge Agreements, the provisions of the Loan Agreement or the Charge Agreements will prevail.

Section 6. Governing Law; Forum for Dispute Resolution. This Agreement shall be governed by and construed according to the laws of the State of Israel, without regard to the conflict of laws provisions thereof. Any dispute arising under or in relation to this Agreement shall be resolved in the competent court for the Tel Aviv-Jaffa district, and each of the parties hereby submits exclusively and irrevocably to the jurisdiction of such court.

Section 7. Termination. This IP Security Agreement and the security interest granted hereunder to the Lender shall terminate and be of no force upon satisfaction in full of the Secured Obligations of the Grantor to the Lender. Upon termination of this IP Security Agreement and the security interest granted to the Lender hereunder, the Lender shall promptly execute all documents necessary to remove the security interest granted by the Grantor hereunder and take any action necessary to remove the security interest granted by the Grantor hereunder, including without limitation, the filing of a Termination Statement in the USPTO for the affected Patents and Trademarks.

[REMAINDER OF PAGE LEFT INTENTIONALLY BLANK]

IN WITNESS WHEREOF, the Grantor and the Lender have caused this IP Security Agreement to be duly executed and delivered by its officer thereunto duly authorized as of the date first above written.

EARLYSENSE LTD.

By: DN Grant

Matthew Johnson

Name: _____

Title: CFO, CEO

KREOS CAPITAL VI (EXPERT FUND) LP

By: _____

Name: Raoul Stein

Title: General Partner

IN WITNESS WHEREOF, the Grantor and the Lender have caused this IP Security Agreement to be duly executed and delivered by its officer thereunto duly authorized as of the date first above written.

EARLYSENSE LTD.

By: _____

Name: _____

Title: _____

KREOS CAPITAL VI (EXPERT FUND) LP

By: _____

Name: Raoul Stein

Title: General Partner

SCHEDULE A

CONFIDENTIAL

Trade Mark Family Report

File No. : ESNS/101 Assignee: EARLYSENSE LTD

Mark : EarlySense

Country	Application No	Filing Date	Registration No.	Registration	Status
China	36344285	15-Feb-2019			examination
Community	005848924	23-Apr-2007	005848924	08-Apr-2008	registered
USA	77/037537	06-Nov-2006	3454407	24-Jun-2008	registered

02-Jun-19

CONFIDENTIAL

Trade Mark Family Report

File No. : ESNS/103 **Assignee:** EARLYSENSE LTD **Priority :**
Mark : EarlySense InSight

Country	Application No	Filing Date	Registration No.	Registration	Status
USA	86/654650	08-Jun-2015	5177060	04-Apr-2017	registered

02-Jun-19

TRADEMARK
REEL: 006700 FRAME: 0377

CONFIDENTIAL

Patent Family Report

File No. : ESNS/001 **Assignee:** EARLYSENSE LTD

Title : TECHNIQUES FOR PREDICTION AND MONITORING OF RESPIRATION-MANIFESTED CLINICAL EPISODES

Abstract : A method is provided for predicting an onset of a clinical episode, the method including sensing breathing of a subject, determining at least one breathing pattern of the subject responsively to the sensed breathing, comparing the breathing pattern with a baseline breathing pattern, and predicting the onset of the episode at least in part responsively to the comparison. Other embodiments are also described.

Country	Application No.	Filing Date	Patent No.\ Pub. No.	Issue Date\ Pub. Date	Status
Israel	177247	31-Jan-2005	177247	01-Feb-2011	granted
Japan	2006-552002	31-Jan-2005	4809779	26-Aug-2011	granted
USA	11/048100	31-Jan-2005	7077810	18-Jul-2006	granted

02-Jun-19

CONFIDENTIAL

Patent Family Report

File No. : ESNS/002 **Assignee:** EARLYSENSE LTD

Title : TECHNIQUES FOR PREDICTION AND MONITORING OF CLINICAL EPISODES

Abstract : A method is provided for predicting an onset of an asthma attack. The method includes sensing at least one parameter of a subject without contacting or viewing the subject or clothes the subject is wearing, and predicting the onset of the asthma attack at least in part responsively to the sensed parameter. Also provided is a method for predicting an onset of an episode associated with congestive heart failure (CHF), including sensing at least one parameter of a subject without contacting or viewing the subject or clothes the subject is wearing, and predicting the onset of the episode at least in part responsively to the sensed parameter. Other embodiments are also described.

Country	Application No.	Filing Date	Patent No.\ Pub. No.	Issue Date\ Pub. Date	Status
Japan	2008-517698	21-Jun-2006	5155856	14-Dec-2012	granted
USA	11/197786	03-Aug-2005	7314451	01-Jan-2008	granted

02-Jun-19

CONFIDENTIAL

Patent Family Report

File No. : ESNS/003 **Assignee:** EARLYSENSE LTD
Title : METHODS AND SYSTEMS FOR MONITORING PATIENTS FOR CLINICAL EPISODES
Abstract : Methods and systems (10) for monitoring vital signs for the prediction and treatment of physiological ailments are provided. The methods and systems (10) may be applied to the monitoring of a broad range of physiological ailments or 'episodes,' including, but not limited to, asthma, hypoglycemia, coughing, edema, sleep apnea, labor, and REM sleep stages, among others. The methods and systems (10) employ sensors (30, 110, 380), for example, non-contact sensors, adapted to detect vital signs, such as heart rate or respiration rate, to produce signals (50) that can be analyzed for trends, for deviations, or for comparison to prior conditions or criteria. The sensors (30, 110, 380) may be positioned whereby the subject (12) need not be viewed by the health care provider. Some methods and systems employ the use of 'scores' based upon the combination of sensed vital signs or based upon a comparison of the vital signs to criteria.

Country	Application No.	Filing Date	Patent No. \ Pub. No.	Issue Date \ Pub. Date	Status
Japan	2008-538433	26-Oct-2006	5281406	31-May-2013	granted

02-Jun-19

TRADEMARK
REEL: 006700 FRAME: 0380

CONFIDENTIAL

Patent Family Report

File No. : ESNS/005 **Assignee:** EARLYSENSE LTD

Title : MONITORING, PREDICTING AND TREATING CLINICAL EPISODES

Abstract : Apparatus (10) is provided that includes at least one sensor (30), configured to sense a physiological parameter of a subject (12) and to sense large body movement of the subject (12), an output unit (24), and a control unit (14). The control unit (14) is configured to monitor a condition of the subject (12) by analyzing the physiological parameter and the sensed large body movement, and to drive the output unit (24) to generate an alert upon detecting a deterioration of the monitored condition. Other embodiments are also described.

Country	Application No.	Filing Date	Patent No.\ Pub. No.	Issue Date\ Pub. Date	Status
USA	12/991749	10-May-2009	8821418	02-Sep-2014	granted

02-Jun-19

CONFIDENTIAL

Patent Family Report

File No. : ESNS/006 **Assignee:** EARLYSENSE LTD

Title : MONITORING, PREDICTING AND TREATING CLINICAL EPISODES

Abstract : Apparatus and methods are provided for use with a subject who is undergoing respiration. A motion sensor senses motion of a subject. A breathing pattern analysis unit analyzes components of the sensed motion that result from the subject's respiration. The breathing pattern analysis unit includes double-movement-respiration-cycle-pattern-identification functionality that designates respiration cycles as being double-movement-respiration-cycles (DMRC's) by determining that the cycles define two subcycles. Double-movement-respiration-cycle-event-identification functionality of the breathing pattern analysis unit identifies a DMRC event by detecting that the subject has undergone a plurality of DMRC's. An output is generated that is indicative of the subject having used accessory muscles in breathing, in response to identification of the double-movement-respiration-cycle event. Other embodiments are also described.

Country	Application No.	Filing Date	Patent No. \ Pub. No.	Issue Date \ Pub. Date	Status
USA	12/938421	03-Nov-2010	8585607	19-Nov-2013	granted
USA-1 Con	14/054280	15-Oct-2013	8734360	27-May-2014	granted

02-Jun-19

TRADEMARK
REEL: 006700 FRAME: 0382

CONFIDENTIAL

Patent Family Report

File No. : ESNS/007 **Assignee:** EARLYSENSE LTD

Title : MONITORING, PREDICTING AND TREATING CLINICAL EPISODES

Abstract : Apparatus (10) is provided that includes at least one sensor (30), configured to sense a physiological parameter of a subject (12) and to sense large body movement of the subject (12), an output unit (24), and a control unit (14). The control unit (14) is configured to monitor a condition of the subject (12) by analyzing the physiological parameter and the sensed large body movement, and to drive the output unit (24) to generate an alert upon detecting a deterioration of the monitored condition. Other embodiments are also described.

Country	Application No.	Filing Date	Patent No. \ Pub. No.	Issue Date \ Pub. Date	Status
Japan	2013-542667	07-Dec-2011	5951630	17-Jun-2016	granted
PCT	PCT/IL2011/050045	07-Dec-2011	WO2012/077113	14-Jun-2012	expired
US Prov.	61/420402	07-Dec-2010			expired
US Prov.-1	61/439971	07-Feb-2011			expired

02-Jun-19

CONFIDENTIAL

Patent Family Report

File No. : ESNS/008 **Assignee:** EARLYSENSE LTD

Title : PREDICTION AND MONITORING OF CLINICAL EPISODES

Abstract : A method is provided for predicting an onset of an asthma attack. The method includes sensing at least one parameter of a subject without contacting or viewing the subject or clothes the subject is wearing, and predicting the onset of the asthma attack at least in part responsively to the sensed parameter. Also provided is a method for predicting an onset of an episode associated with congestive heart failure (CHF), including sensing at least one parameter of a subject without contacting or viewing the subject or clothes the subject is wearing, and predicting the onset of the episode at least in part responsively to the sensed parameter. Other embodiments are also described.

Country	Application No.	Filing Date	Patent No.\ Pub. No.	Issue Date\ Pub. Date	Status
USA	11/782750	25-Jul-2007	8403865	26-Mar-2013	granted
USA-1	13/750957	25-Jan-2013	8603010	10-Dec-2013	granted
USA-2	13/750962	25-Jan-2013	8679034	25-Mar-2014	granted
USA-3	14/020574	06-Sep-2013	8731646	20-May-2014	granted
USA-4	14/231855	01-Apr-2014	8992434	31-Mar-2015	granted
USA-5	14/624904	18-Feb-2015	9131902	15-Sep-2015	granted

02-Jun-19

CONFIDENTIAL

Patent Family Report

File No. : ESNS/010 **Assignee:** EARLYSENSE LTD

Title : TECHNIQUES FOR PREDICTION AND MONITORING OF COUGHING-MANIFESTED CLINICAL EPISODES

Abstract : A method is provided for predicting an onset of a clinical episode, the method including sensing breathing of a subject, determining at least one breathing pattern of the subject responsively to the sensed breathing, comparing the breathing pattern with a baseline breathing pattern, and predicting the onset of the episode at least in part responsively to the comparison. Other embodiments are also described.

Country	Application No.	Filing Date	Patent No. \ Pub. No.	Issue Date \ Pub. Date	Status
USA	12/842634	23-Jul-2010	8517953	27-Aug-2013	granted

02-Jun-19

TRADEMARK
REEL: 006700 FRAME: 0385

CONFIDENTIAL

Patent Family Report

File No. : ESNS/011 **Assignee:** EARLYSENSE LTD

Title : TECHNIQUES FOR PREDICTION AND MONITORING OF RESPIRATION-MANIFESTED CLINICAL EPISODES

Abstract : A method is provided for predicting an onset of a clinical episode, the method including sensing breathing of a subject, determining at least one breathing pattern of the subject responsively to the sensed breathing, comparing the breathing pattern with a baseline breathing pattern, and predicting the onset of the episode at least in part responsively to the comparison. Other embodiments are also described.

Country	Application No.	Filing Date	Patent No.\ Pub. No.	Issue Date\ Pub. Date	Status
USA	11/446281	31-Jan-2005	8376954	19-Feb-2013	granted

02-Jun-19

TRADEMARK
REEL: 006700 FRAME: 0386

CONFIDENTIAL

Patent Family Report

File No. : ESNS/012 **Assignee:** EARLYSENSE LTD

Title : MONITORING A CONDITION OF A SUBJECT

Abstract : Apparatus and methods are described including a mechanical sensor configured to detect a physiological signal of a subject. A control unit receives the signal over a time duration of at least two hours at a given period of a first baseline day, and determines a baseline physiological parameter of the subject in response thereto. The control unit receives the signal over a time duration of at least two hours at a given period of a second day, the period on the second day overlapping with the period over which the signal is detected on the first baseline day. The control unit determines a physiological parameter of the subject based upon the detected signal on the second day, and compares the parameter to the subject's baseline physiological parameter. The control unit generates an alert in response to the comparison. Other applications are also described.

Country	Application No.	Filing Date	Patent No. \ Pub. No.	Issue Date \ Pub. Date	Status
USA	13/107772	13-May-2011	8491492	23-Jul-2013	granted
USA-1 CON	13/921915	19-Jun-2013	8679030	25-Mar-2014	granted
USA-2 CON	14/150115	08-Jan-2014	8840564	23-Sep-2014	granted
USA-3 CON	14/454300	07-Aug-2014	8942779	27-Jan-2015	granted
USA-4 CON	14/557654	02-Dec-2014	9026199	05-May-2015	granted
USA-5 CIP	14/663835	20-Mar-2015	9131891	15-Sep-2015	granted

02-Jun-19

CONFIDENTIAL

Patent Family Report

File No. : ESNS/014 **Assignee:** EARLYSENSE LTD
Title : MONITORING, PREDICTING AND TREATING CLINICAL EPISODES
Abstract : Apparatus (10) is provided that includes at least one sensor (30), configured to sense a physiological parameter of a subject (12) and to sense large body movement of the subject (12), an output unit (24), and a control unit (14). The control unit (14) is configured to monitor a condition of the subject (12) by analyzing the physiological parameter and the sensed large body movement, and to drive the output unit (24) to generate an alert upon detecting a deterioration of the monitored condition. Other embodiments are also described.

Country	Application No.	Filing Date	Patent No.\ Pub. No.	Issue Date\ Pub. Date	Status
PCT	PCT/IL2013/050283	24-Mar-2013	WO2013/150523	10-Oct-2013	expired
US Prov.	61/618792	01-Apr-2012			expired
USA-1	14/458399	13-Aug-2014	8998830	07-Apr-2015	granted
USA-2	14/631978	26-Feb-2015	10238351	26-Mar-2019	granted
USA-3	16/276880	15-Feb-2019			filed
USACIP	13/906325	30-May-2013	8882684	11-Nov-2014	granted

02-Jun-19

TRADEMARK
REEL: 006700 FRAME: 0388

CONFIDENTIAL

Patent Family Report

File No. : ESNS/025 **Assignee:** EARLYSENSE LTD

Title : MONITORING, PREDICTING AND TREATING CLINICAL EPISODES

Abstract : The present invention relates generally to monitoring subjects and predicting and monitoring abnormal physiological conditions and treating those conditions, and specifically to methods and apparatus for predicting and monitoring abnormal physiological conditions by non-contact measurement and analysis of characteristics of physiological and/or physical parameters.

Country	Application No.	Filing Date	Patent No. \ Pub. No.	Issue Date \ Pub. Date	Status
PCT	PCT/IL2014/050644	17-Jul-2014	WO2015/008285	22-Jan-2015	expired
US Prov.	61/847579	18-Jul-2013			expired
USA	14/956516	17-Jul-2014	9449493	20-Sep-2016	granted

02-Jun-19

CONFIDENTIAL

Patent Family Report

File No. : ESNS/025 **Assignee:** EARLYSENSE LTD

Title : MONITORING, PREDICTING AND TREATING CLINICAL EPISODES

Abstract : The present invention relates generally to monitoring patients and predicting and monitoring abnormal physiological conditions and treating those conditions, and specifically to methods and apparatus for predicting and monitoring abnormal physiological conditions by non-contact measurement and analysis of characteristics of physiological and/or physical parameters

Country	Application No.	Filing Date	Patent No. \ Pub. No.	Issue Date \ Pub. Date	Status
USA	14/019371	05-Sep-2013	9883809	06-Feb-2018	granted
USA-1	15/885904	01-Feb-2018	US2018/0220897	09-Aug-2018	filed

02-Jun-19

CONFIDENTIAL

Patent Family Report

File No. : ESNS/028 **Assignee:** EARLYSENSE LTD

Title : MONITORING A SLEEPING SUBJECT

Abstract : Apparatus and methods are described, including apparatus for use with a speaker. A sensor monitors a subject and generates a sensor signal in response thereto. A control unit analyzes the sensor signal, and controls a property of a sound signal in response to (a) the analyzing of the sensor signal, and (b) a historical physiological parameter of the subject that was exhibited in response to a historical sound signal. The control unit drives the speaker to play the sound signal. Other applications are also described.

Country	Application No.	Filing Date	Patent No.\ Pub. No.	Issue Date\ Pub. Date	Status
PCT	PCT/IL2015/050880	02-Sep-2015	WO/2016/035073	10-Mar-2016	expired
US Prov.	62/045237	03-Sep-2014			expired
USA	14/843021	02-Sep-2015	10172593	08-Jan-2019	granted
USA-1	16/202586	02-Sep-2015			filed

02-Jun-19

CONFIDENTIAL

Patent Family Report

File No. : ESNS/029 **Assignee:** EARLYSENSE LTD

Title : MONITORING A SLEEPING SUBJECT

Abstract : Apparatus and methods are described, including apparatus for use with a subject who shares a bed with a second person. A motion sensor detects motion of the subject and motion of the second person, and generates a motion signal in response thereto. A control unit identifies components of the motion signal that were generated in response to motion of the subject, by distinguishing between components of the motion signal that were generated in response to motion of the subject, and components of the motion signal that were generated in response to motion of the second person. The control unit analyzes the components of the motion signal that were generated in response to motion of the subject and generates an output in response thereto. Other applications are also described.

Country	Application No.	Filing Date	Patent No. \ Pub. No.	Issue Date \ Pub. Date	Status
USA	14/474357	07-Dec-2011	10292625	21-May-2019	granted
USA-1	16/398572	07-Dec-2011			filed

02-Jun-19

CONFIDENTIAL

Patent Family Report

File No. : ESNS/033 **Assignee:** EARLYSENSE LTD

Title : MONITORING A SLEEPING SUBJECT

Abstract : Apparatus and methods are described, including apparatus for use with a speaker. A sensor monitors a subject and generates a sensor signal in response thereto. A control unit analyzes the sensor signal, and controls a property of a sound signal in response to (a) the analyzing of the sensor signal, and (b) a historical physiological parameter of the subject that was exhibited in response to a historical sound signal. The control unit drives the speaker to play the sound signal. Other applications are also described.

Country	Application No.	Filing Date	Patent No.\ Pub. No.	Issue Date\ Pub. Date	Status
US Prov. USA	62/152902 14/726706	26-Apr-2015 01-Jun-2015	projected	03-Mar-2016	expired examination

02-Jun-19

TRADEMARK
REEL: 006700 FRAME: 0393

CONFIDENTIAL

Patent Family Report

File No. : ESNS/034 **Assignee:** EARLYSENSE LTD

Title : MONITORING A CONDITION OF A SUBJECT

Abstract : Apparatus for monitoring a clinical condition of a subject is described. A motion sensor monitors the subject, and generates a signal in response thereto. A control unit analyzes the signal, and, in response to the analyzing, (a) identifies a sleep stage of the subject, and (b) identifies a clinical parameter of the subject in the identified sleep stage. The control unit monitors the clinical condition, by comparing the clinical parameter to a baseline clinical parameter for the identified sleep stage, and generates an output in response thereto. Other applications are also described.

Country	Application No.	Filing Date	Patent No.\ Pub. No.	Issue Date\ Pub. Date	Status
USA	14/810814	28-Jul-2015	9265445	23-Feb-2016	granted
USA-1	14/994433	13-Jan-2016	9681838	20-Jun-2017	granted
USA-2	15/624207	15-Jun-2017	10194810	05-Feb-2019	granted
USA-3	16/247622	15-Jan-2019			filed

02-Jun-19

CONFIDENTIAL

Patent Family Report

File No. : ESNS/036 **Assignee:** EARLYSENSE LTD

Title : APPARATUS FOR MONITORING THE MOTION OF A PASSENGER

Abstract : Apparatus comprising a temperature-control device comprising at least first and second sections corresponding to respective portions of a body of a single subject; and a temperature-regulation unit configured to regulate temperatures of the respective portions of the subject's body to be at respective temperatures by, simultaneously, setting a temperature of the first section of the temperature-control device to a first temperature, and setting a temperature of the second section of the temperature control device to a second temperature that is different from the first temperature.

Country	Application No.	Filing Date	Patent No. \ Pub. No.	Issue Date \ Pub. Date	Status
PCT	PCT/IL2017/050182	14-Feb-2017	WO/2017/138005	17-Aug-2017	expired
US Prov.	62/295077	14-Feb-2016			expired
USA	15/431842	14-Feb-2017	US2017/0231545	17-Aug-2017	filed

02-Jun-19

TRADEMARK
REEL: 006700 FRAME: 0395

CONFIDENTIAL

Patent Family Report

File No. : ESNS/037 **Assignee:** EARLYSENSE LTD
Title : APPARATUS AND METHODS FOR MONITORING A SUBJECT
Abstract : The present invention relates generally to monitoring a subject. Specifically, some applications of the present invention relate to monitoring a female subject, and/or an infirm subject.

Country	Application No.	Filing Date	Patent No.\ Pub. No.	Issue Date\ Pub. Date	Status
PCT	PCT/IL2018/051027	13-Sep-2018	WO2019/053719	21-Mar-2019	filed
US Prov.	62/559568	17-Sep-2017			expired
USA	16/129878	13-Sep-2018	US2019/0083044	21-Mar-2019	filed

02-Jun-19

CONFIDENTIAL

Patent Family Report

File No. : ESNS/038 **Assignee:** EARLYSENSE LTD
Title : APPARATUS FOR MONITORING A SUBJECT

Country	Application No.	Filing Date	Patent No.\ Pub. No.	Issue Date\ Pub. Date	Status
US Prov.	62/816127	10-Mar-2019			filed

02-Jun-19