

Diego Gonzalez

Search history

Search 1: STAC=(diaper and impedance and electrode) (Results 7)

Title: Moisture detecting devices such as for **diapers** and **diapers** having such devices

Abstract: A pair of spaced **electrodes** within an area subject to wetness couple non-conductively with a sensor protected from wetness, and an alarm sounds in response to moisture decreasing the resistance between the **electrodes**. For example the **electrodes** project into the absorbent material of a **diaper** and extend along the inside of the **diaper** sheath opposite a pouch on the outside of the sheath. The pouch contains a sensor capacitively coupled to the **electrodes**.

Classifications:

International (IPC 8-9): A61F13/42 A61F5/44 G01N27/00 G08B21/00 G08B21/20 (Advanced/Invention);

A61F5/44 G01N27/00 (Advanced/Non-invention);

A61F13/42 A61F5/44 G01N27/00 G08B21/00 (Core/Invention)

International (IPC 1-7): A61F13/15 A61F13/42 A61F5/44 A61F5/48 B31B1/68 B32B31/00 G01N27/00 G01N27/06 G01N27/12 G01N27/22 G01N5/02 G08B21/00 G08B21/20

CPC: Y10S493/938 A61F13/42

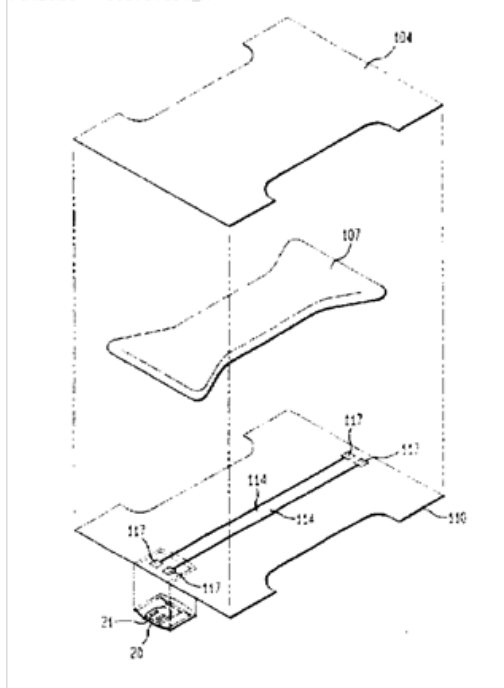
European: A61F13/42

US: 128/885 128/886 340/603 340/604 493/334 493/383 493/938 604/361

JP F-Term: 2G060 2G060/AA07 2G060/AE11 2G060/AF06 2G060/AF07 2G060/AG03 2G060/HA03 2G060/HD01 2G060/HD02 3B029 3B029/BE04 3B200 3B200/AA01 3B200/CA06 3B200/DA16 3B200/DD09 3B200/DF04 3B200/EA08 4C098 4C098/AA09 4C098/CC02 4C098/CC07 4C098/CC10 4C098/CC40 4C098/CD07 4C098/CD08 4C098/CD09 4C098/DD02 4C098/DD03 4C098/DD12 4C098/DD17 4C098/DD22 4C098/DD23

JP F-Index: A41B13/02/Q A61F13/42/F A61F5/44/S G01N27/00/H

PatBase - US5760694_A



Family:

Publication number	Publication date	Application number	Application date
AU199730705 A1	19971126	AU19970030705	19970506
BRPI97111092 A	20000111	BR1997PI11092	19970506
CA2288646 AA	19991105	CA19972288646	19970506
CN1083331 C	20020424	CN19971096194	19970506
CN1226855 A	19990825	CN19971096194	19970506
CN1380547 A	20021120	CN20011032401	20010830
EP0897570 A2	19990224	EP19970925622	19970506
EP0897570 A3	20021120	EP19970925622	19970506
EP0897570 A4	20001227	EP19970925622	19970506
JP2002515975 T2	20020528	JP19970540274T	19970506
NZ333211 A	20001027	NZ19970333211	19970506
RU98122060 A	20000927	RU19980122060	19981207
US5760694 A	19980602	US19960646453	19960507
US6200250 BA	20010313	US19980046468	19980323
WO9742613 A2	19971113	WO1997US08405	19970506
WO9742613 A3	19980409	WO1997US08405	19970506

Priority:

US19960646453 19960507	US19960665199 19960614	US19960663686 19960814
US19960700011 19960820	US19960773343 19961226	WO1997US08405 19970506
US19980046468 19980323		

Probable Assignee: KNOX SECURITY ENGINEERING CORP

Assignee(s): (std): ELLINGHAM DONALD B ; JANSZEN DAVID ; KNOX SECURING ENGINEERING CORP ; KNOX SECURITY ENGINEERING CORP ; KONOKS SAFETY ENGINEERING CO ; NISSIM OFER

Inventor(s): (std): DAVID JANSZEN ; DAVID JENSEN ; DONALD B ELLINGHAM ; ELLINGHAM DONALD B ; JANSZEN DAVID ; JENSEN DAVID ; NISIM OVER ; NISSIM OFER ; NISSIN OFER ; OFER NISSIM ; OVER NISIM

Inventor(s): OFER NISSIN

Agent(s): SHAPIRO COHEN

Designated states: AM AT AU BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CZ DE DK EE ES FI FR GA GB GE GH GN GR HU IE IS IT JP KE KG KP KR KZ LI LR LS LT LU LV MC MD MG ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SN SZ TD TG TJ TM TT UA UG US UZ VN

Title: NON-INVASIVE DETECTION OF THE BACKFLOW OF URINE

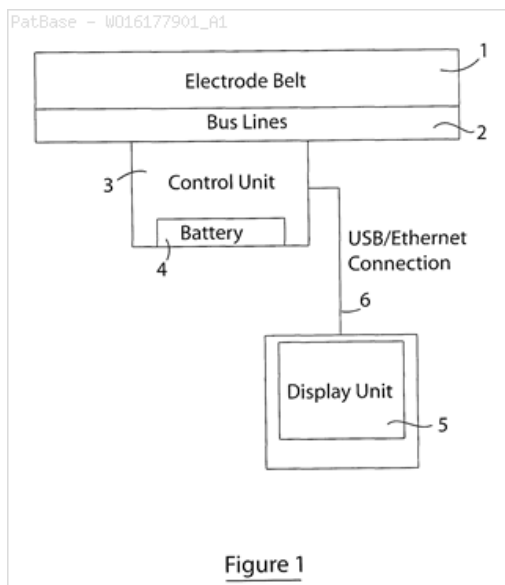
Abstract: The present relates to a method, system and a device for non-invasive detection of urine flow from the bladder into the kidney(s). The method, system and device rely on measurements made at distinct time points and can be used to detect Vesicoureteral reflux. The method, system and device are designed to detect changes in urine volume in the ureter(s), bladder and / or kidney(s). The method and device measure conductivity changes by bioelectrical **impedance** or electrical **impedance** tomography technology.

Classifications:

International (IPC 8-9): A61B5/00 A61B5/01 A61B5/053 A61B5/11 A61B5/20 (Advanced/Invention);

A61B5/00 A61B5/01 A61B5/11 (Advanced/Non-invention)

CPC: A61B5/208 A61B5/01 A61B5/053 A61B5/11 A61B5/201 A61B5/204 A61B5/207 A61B5/6808 A61B5/6823 A61B5/6831 A61B5/6833 A61B5/7203 A61B2560/0468



Family:

Publication number	Publication date	Application number	Application date
AU2016257018 AA	20161110	AU20160257018	20160506
CA2984471 AA	20171030	CA20162984471	20160506
CN107743378 A	20180227	CN201680030541	20160506
EP3291731 A1	20180314	EP20160722627	20160506
WO16177901 A1	20161110	WO2016EP60234	20160506

Priority:

US20150157752P 20150506 WO2016EP60234 20160506

Probable Assignee: NAT UNIV IRELAND GALWAY

Assignee(s): (std): NAT UNIV IRELAND GALWAY ; NATIONAL UNIV OF IRELAND GALWAY ; NAT UNIV OF IRELAND GALWAY

Assignee(s): PURI PREM ; O HALLORAN MARTIN ; BRUZZI MARK ; ELEUTERIO RICARDO ; LOUGHNEY SARAH

Inventor(s): (std): BRUZZI MARK ; ELEUTERIO RICARDO ; LOUGHNEY SARAH ; O HALLORAN MARTIN ; OHALLORAN MARTIN ; PURI PREM

Agent(s): AJ PARK; MAMAJIWALLA SALIM N; TOMKINS AND CO; GATES CHRISTINA MARIE ESTHER ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: Moisture Detecting Devices such as for **Diapers** and **Diapers** having such Devices

Abstract: This invention relates to devices for monitoring wetness, particularly in **diapers**, and to **diapers** containing such devices. According to an embodiment of the invention, a pair of spaced **electrodes** within an area subject to wetness couple non-conductively with a sensor protected from wetness, and alarm sounds in response to moisture decreasing the resistance between the **electrodes**. For example the **electrodes** project into the absorbent material of a **diaper** and extend along the inside of the **diaper** sheath opposite a pouch on the outside of the sheath. The pouch contains a sensor capacitively coupled to the **electrodes**.

Classifications:

International (IPC 8-9): G08B21/00 (Advanced/Invention)

Family:

Publication number	Publication date	Application number	Application date
AU2002300239 AA	20021219	AU20020300239	20020724
AU2002300239 AH	20030116	AU20020300239	20020724

Priority:

AU19970030705 19960507	US19960646453 19960507	US19960665199 19960614
US19960663686 19960814	US19960700011 19960820	US19960773343 19961226

Probable Assignee: KNOX SECURITY ENGINEERING CORP

Assignee(s): KNOX SECURITY ENGINEERING CORP

Inventor(s): ELLINGHAM DONALD B ; JANSZEN DAVID ; NISSIM OFER

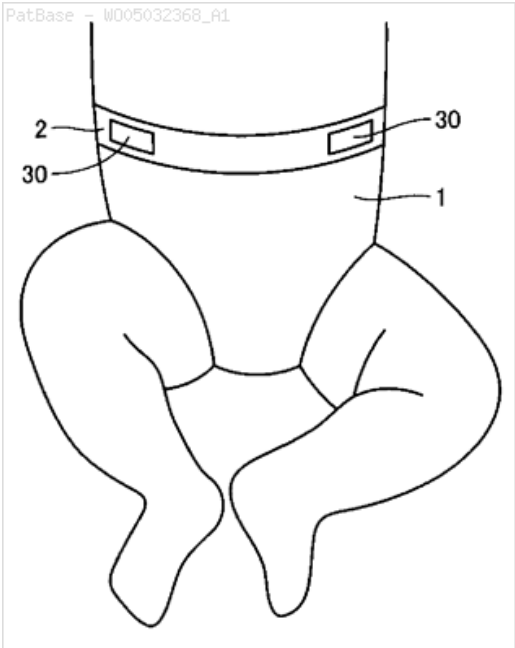
Agent(s): MILLS OAKLEY LAWYERS; MILLS OAKLEY

Title: CLOTHES FOR BABIES WITH BIOMETRIC SENSOR, SHEET FOR BABIES WITH BIOMETRIC SENSOR AND BIOMETRIC METHOD

Abstract: A biometric sensor (30) comprising conductive fibers as an **electrode** is incorporated in a band part (2) of a piece (1) of clothes (1) for babies. A conductive cloth (31) and the skin (6) are coupled capacitively using a cloth (7) interposed between them as a capacitor, an electric biosignal is picked up from the conductive cloth (31), and a cardiographic complex is outputted using an **impedance** converter having a high input **impedance** and a low output **impedance** from the output of the biometric sensor (30).

Classifications:

International (ipc 8-9): A61B5/04 A61B5/0408 A61B5/0444
A61B5/0478 (Advanced/Invention);
A61B5/04 A61B5/0408 (Core/Invention)
International (ipc 1-7): A61B5/04 A61B5/0408
CPC: A61B2562/0215 A61B5/04085 A61B5/411 A61B5/6804
A61B5/6805 A61B5/6887
European: A61B5/0408D A61B5/41B A61B5/68B1D A61B5/68B1D1
A61B5/68F
JP F-Term: 4C027 4C027/AA02 4C027/EE01 4C127 4C127/AA02
4C127/EE01 4C127/LL13
JP F-Index: A61B5/04/300/M A61B5/04/310/J



Family:

Publication number	Publication date	Application number	Application date
CN1829475 A	20060906	CN200480021803	20040921
EP1674036 A1	20060628	EP20040787930	20040921
JP2005032368 A1	20071115	JP20050514394T	20040921
TW200518716 A	20050616	TW20040129535	20040930
WO05032368 A1	20050414	WO2004JP13747	20040921

Priority:

JP20030346300 20031003 WO2004JP13747 20040921

Probable Assignee: APRICA KASSAI KK

Assignee(s): (std): APRICA IKUJIKENKYUKAI APRICA K K ; APRICA KASSAI KK ; KASSAI KENZOU ; SUZUKI SACHIYO

Assignee(s): APRICA IKUJIKENKYUKAI APRICA K K ; APRICA IKUJIKENKYUKAI APRICA KASSAI ; APRICA IKUJIKENKYUKAI APRICA KASSAI KABUSHIKIKAISH ; APRICA IKUJIKENKYUKAI APRICA KASSAI KABUSHIKIKAISHA ; APRICA KASSAI KABUSHIKIKAISHA

Inventor(s): (std): KASSAI KENZOU ; SACHIYO KASSAI KENZOU SUZUKI ; SUZUKI SACHIYO

Inventor(s): KASSAI KENZOU SUZUKI SACHIYO

Agent(s): ITOH HIDEHIKO; YOSHIDA HIROYOSHI; MORISHITA HACHIRO

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NA NE NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

Title: URINATION DETECTING DEVICE

Abstract: PROBLEM TO BE SOLVED: To provide a urination detecting device for highly accurately measuring urination speed to an absorbent article such as a **diaper** and a urination collecting pad.SOLUTION: An electrostatic capacity sensor sheet 1 has a film 1a and a plurality of **electrodes** 1b formed in one surface of the film 1a. A plurality of sensor elements are constituted by connecting each of the **electrodes** 1b by leads and having **electrode** rows arranged in a plurality of rows. The **electrode** distance in the row direction in the **electrode** rows is in the range of 20 to 55 mm, the **electrodes** has a shape present in a rectangular shape from 15 to 25 mm. Such an electrostatic capacity sensor sheet 1 is attached to the outside surface of the absorbent article. The absorbent part of the absorbent article has a polymer quantity capable of absorbing urine of a centrifugal holding quantity of at least 350 g. The electrostatic capacity sensor sheet 1 detects **impedance** change between the **electrodes** by each of the sensor elements and detects the urination in the absorbent article such as the urine collecting pad.SELECTED DRAWING: Figure 1

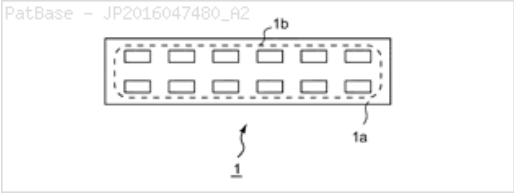
Classifications:

International (IPC 8-9): A61F13/42 A61F13/49 (Advanced/Invention)

JP F-Term: 3B200 3B200/AA01 3B200/CA02 3B200/DF04

3B200/DF05 3B200/CA08 3B200/CA11

JP F-Index: A41B13/02/L A61F13/42/F



Family:

Publication number	Publication date	Application number	Application date
JP2013039158 A2	20130228	JP20110176281	20110811
JP2016047480 A2	20160407	JP20160004204	20160113

Priority:

JP20110176281 20110811 JP20160004204 20160113

Probable Assignee: KAO CORP

Assignee(s): (std): KAO CORP

Inventor(s): (std): KANEDA TAKAYUKI ; OHASHI KAZUO

Agent(s): IAT WORLD PATENT LAW FIRM

Title: EXCRETION SENSOR AND EXCRETION DETECTOR

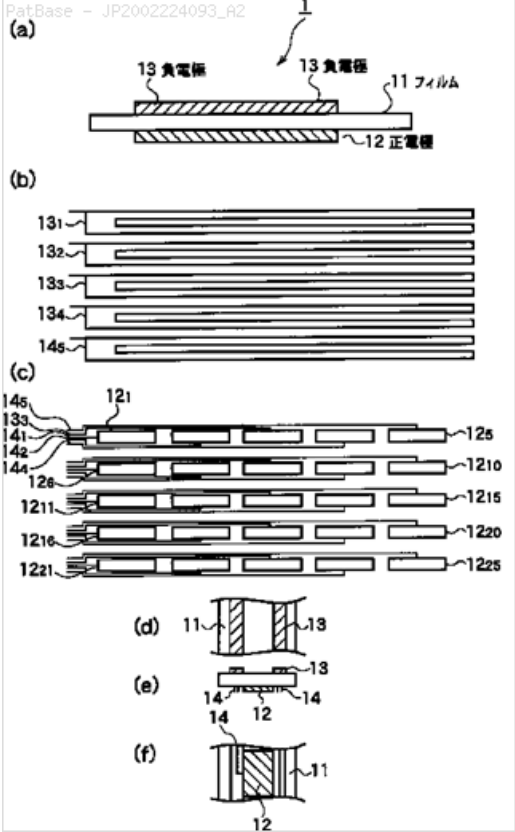
Abstract: PROBLEM TO BE SOLVED: To provide an excretion sensor and an excretion detector capable of highly precisely measuring an excretion quantity by reducing an effect of movement of a human body. SOLUTION: A sensor part 1, or the excretion sensor, is provided with multiple sensor devices distributedly disposed in the outside of a **diaper** and in a wide range of the **diaper** and detects the excretion quantity in the **diaper** based on the multiple outputs of the multiple sensors. The multiple sensor devices are provided with a film 11, multiple positive **electrodes** 12 distributedly disposed in one surface of the film 11, negative **electrodes** 13 disposed in the other surface of the film 11. Each of the multiple sensor devices detects **impedance** change between the positive **electrode** 12 and the negative **electrode** 13.

Classifications:

International (IPC 8-9): A61B5/20 A61F13/42 A61F13/49 A61F5/44 G01N27/00 G01N27/02 (Advanced/Invention); A61B5/20 A61F13/15 A61F13/42 A61F5/44 (Core/Invention)

International (IPC 1-7): A61B5/20 A61F13/42 A61F13/49 A61F5/44
JP F-Term: 3B029 3B029/BE04 3B200 3B200/AA01 3B200/BB09 3B200/BB30 3B200/DF04 3B200/DF05 4C038 4C038/DD01 4C038/DD05 4C038/DD06 4C098 4C098/AA09 4C098/CC01 4C098/CD09 4C098/CE06 4C098/CE08 2G060 2G060/AA07 2G060/AE12 2G060/AF06 2G060/AG06 2G060/AG08 2G060/AG10 2G060/AG11 2G060/HC10 2G060/HC13 4C038/VA04 4C038/VB31 4C038/VC20 4C098/CD07

JP F-Index: A41B13/02/L A41B13/02/Q A61B5/20 A61F13/42/F A61F5/44/S A41B13/02 G01N27/00/H G01N27/02/Z



Family:

Publication number	Publication date	Application number	Application date
JP2002224093 A2	20020813	JP20010028468	20010205
JP2011078791 A2	20110421	JP20100240808	20101027
JP5075966 B2	20121121	JP20100240808	20101027

Priority:

JP20010028468 20010205 JP20100240808 20101027

Probable Assignee: KAO CORP

Assignee(s): (std): KAO CORP

Inventor(s): (std): FUKUDA IKUO ; HARA KATSUTOSHI ; KITAORI NORIYUKI ; OHASHI KAZUO

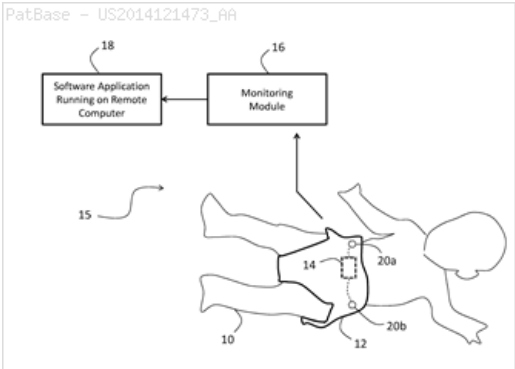
Agent(s): MIYOSHI HIDEKAZU

Title: VITAL SIGN MONITORING SYSTEM FEATURING ELECTRONIC **DIAPER**

Abstract: The invention provides a system for monitoring an infant or adult patient that includes a garment configured to attach to the infant, and a control module connected to the garment featuring: i) a first sensor that measures HR or a parameter used to determine HR; ii) a second sensor that measures RR or a parameter used to determine RR; iii) a third sensor configured to monitor a PP parameter; and iv) a wireless transmitter configured to receive and wirelessly transmit information from the first, second, and third sensors.

Classifications:

International (IPC 8-9): A61B5/00 A61B5/01 A61B5/0295 A61B5/08 (Advanced/Invention)
CPC: A61B5/6808 A61B5/0295 A61B5/0015 A61B5/0022 A61B5/01 A61B5/02055 A61B5/02455 A61B5/0809 A61B5/0816
US: 600/301



Family:

Publication number	Publication date	Application number	Application date
US2014121473 AA	20140501	US20130066539	20131029

Priority:

US20120720786P 20121031 US20130066539 20131029

Probable Assignee: BANET MATT
Assignee(s): (std): BANET MATT ; DHILLON MARSHAL ; HUNT ROBERT
Inventor(s): (std): BANET MATT ; DHILLON MARSHAL ; HUNT ROBERT