

1) Family number: 30902104 (US2003163079A)

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Title:	VESICULAR SHUNT FOR THE DRAINAGE OF EXCESS FLUID			
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Family:

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Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI 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 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 PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

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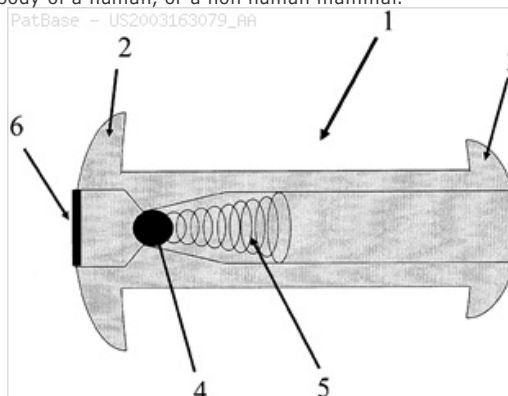
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Abstract:

A transvesicular drainage device, designed to drain excess fluid from a variety of locations in the human body into the bladder. The device may be used to treat ascites or any fluid collection within the body of a human, or a non human mammal.



2) Family number: 32887590 (US2006196277A)

© PatBase

Title:

COMMUNICATING WITH AN IMPLANTED WIRELESS SENSOR

Priority:

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Family:

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Probable Assignee: ST JUDE MEDICAL LUXEMBOURG HOLDINGS II SARL SJM LUX II

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Agent(s): FB RICE PTY LTD; FB RICE; PIZZEYS PATENT AND TRADE MARK ATTORNEYS PTY LTD; PIZZEYS; FINLAYSON AND SINGLEHURST; BERESKIN AND PARR LLP; BERESKIN AND PARR LLP SENCRL SRL; GODEMEYER BLUM LENZE PATENTANWAELTE PARTNERSCHAFT MBB; HOFER AND PARTNER PATENTANWAELTE MBB; BOFF JAMES CHARLES; BOFF JAMES CHARLES ET AL; GRAY PETER JOHN BRACEY; LEISSLER GERSTL GABRIELE; JOHN S PRATT ESQ KILPATRICK STOCKTON LLP; BALLARD SPAHR ANDREWS AND INGERSOLL LLP; BALLARD SPAHR LLP; KILPATRICK STOCKTON LLP; KILPATRICK TOWNSEND AND STOCKTON LLP; DECARLO KEAN J ET AL; KIRSCH GREGORY J ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ 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 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 PE PG PH PL PT RO RS RU 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 YU ZA ZM ZW

International class (IPC 8-9): A61B17/00 A61B17/70 A61B18/18 A61B5/00 A61B5/01 A61B5/02 A61B5/0215 A61B5/027 A61B5/03 A61B5/05 A61B5/055 A61B5/07 A61B5/11 A61B6/03 A61F2/44 A61M25/088 A61M27/00 A61M39/22 A61N1/00 G01D1/14 G01D21/00 G01F1/58 G01F15/00 G01F15/06 G01L1/00 G01L1/14 G01L1/20 G01L9/00 G01R23/00 G01R23/02 G01R23/08 G01R23/12 G01R23/14 G01R23/175 G01R25/00 G01R27/02 G01R27/04 G01R27/26 G01R27/28 G01R27/32 G01R33/00 G01R35/00 G08C17/00

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A61B5/07 A61M27/00 G01R27/26 (Advanced/Non-invention);
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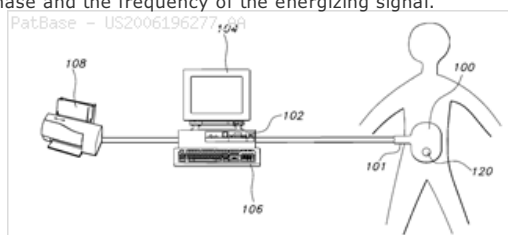
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Abstract:

The present invention determines the resonant frequency of a sensor by adjusting the phase and frequency of an energizing signal until the frequency of the energizing signal matches the resonant frequency of the sensor. The system energizes the sensor with a low duty cycle, gated burst of RF energy having a predetermined frequency or set of frequencies and a predetermined amplitude. The energizing signal is coupled to the sensor via magnetic coupling and induces a current in the sensor which oscillates at the resonant frequency of the sensor. The system receives the ring down response of the sensor via magnetic coupling and determines the resonant frequency of the sensor, which is used to calculate the measured physical parameter. The system uses a pair of phase locked loops to adjust the phase and the frequency of the energizing signal.



3) Family number: 70249626 (WO18116167A1)

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Title: DEVICE AND METHOD FOR DRAINING BIOLOGICAL LIQUID AND DETECTING OBSTRUCTIONS
DISPOSITIF ET METHODE POUR LE DRAINAGE D'UN LIQUIDE BIOLOGIQUE ET L

Priority: CO20160005747 20161223

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Abstract:
The present invention relates to a device and an associated method for draining a biological liquid and detecting obstructions. The device for controlling the flow of a biological liquid comprises: a first tube; a first pressure sensor connected to the first tube; a second tube; a second pressure sensor connected to the second tube; an electromechanical actuator connected to the first tube and to the second tube; and a control unit connected to the electromechanical actuator, to the first pressure sensor and to the second pressure sensor, wherein the control unit controls the electromechanical actuator and determines the pressure differential between the first pressure sensor and the second pressure sensor. This pressure variation allows obstructions to be determined. The method for draining a biological liquid and detecting obstructions compares the measurements of the pressure of the first sensor with a value entered by a user (set point) to actuate the electromechanical actuator. The method also calculates the pressure difference between the measurements of the first sensor and the second sensor to determine the existence and location of an obstruction.

