

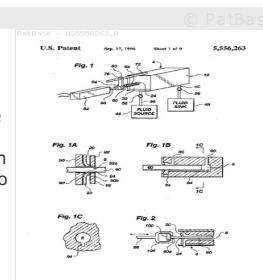
1) Family number: 20680802 (US5556263A)

VOLUMETRIC PUMP AND VALVE

Abstract: Source: US5556263A A volumetric pump and fluid control valve system for controlling the flow of fluid which comprises a housing containing an interior cavity, an elongated valve shaft is disposed inside the cavity, and an elongate drive shaft of smaller diameter than the valve shaft connected to one end of the valve shaft. The drive shaft passes through a passage formed in the housing to extend from the cavity to the exterior. A resilient sheet of material having an aperture is disposed in the housing on the exterior side of the passage and the drive shaft passes through the aperture to form a sphincter seal. The drive shaft can be used to move the valve shaft back and forth in a reciprocating motion producing positive and negative pressures causing fluid to flow or merely to stabilize the valve shaft in position. The valve shaft includes two flanges which are spaced apart from one another. The flanges extend at least partially around the circumference of the valve shaft. The drive shaft is disposed in the cavity above the valve shaft and substantially parallel thereto. A tab extends downwardly from the piston sufficiently far to abut either of the flanges when the piston is moved longitudinally a sufficient distance.

Probable Assignee: SARCOS LC

Earliest Publication Date: 19950524



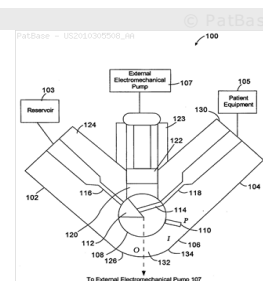
2) Family number: 47720824 (US2010305508A)

INTRAVENOUS PISTON PUMP DISPOSABLE AND MECHANISM

Abstract: Source: US2010305508A An apparatus for delivery of fluids to a patient includes an inlet tube and an outlet tube connected to each other at an angular joint. A rotary valve and a piston are fitted to the angular joint forming a chamber. The rotary valve is provided with a priming channel notch and a pumping notch. For priming operation with the fluid delivery apparatus, a user sets the rotary valve to a priming position. During pumping operation, the rotary valve rotates in coordination with the piston to transfer a quantum of fluid from the inlet tube to the outlet tube via the chamber. A second piston is optionally provided on the outlet tube for smoothing out flow rate pulsations.

Probable Assignee: CAREFUSION 303 INC

Earliest Publication Date: 20101202



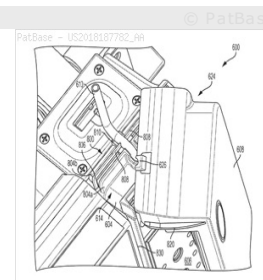
3) Family number: 70341966 (US2018187782A)

INFUSION PUMP DOOR SEAL FOR VERTICAL INTRAVENOUS TUBES

Abstract: Source: US2018187782A An infusion pump for delivering an intravenous ("IV") fluid includes a housing comprising an actuation area that engages a portion of an IV tube. The actuation area includes a first end that receives the IV tube from a fluid container and a second end that provides the IV tube to a patient. The housing also includes a seal section located along a perimeter of at least a portion of the actuation area. The seal section includes a gasket rib positioned along the seal section and a tube channel configured to cradle the IV tube. The example infusion pump also includes a door connected to the housing and configured to engage the gasket rib to enclose the actuation area of the housing.

Probable Assignee: BAXTER HEALTHCARE SA

Earliest Publication Date: 20180705



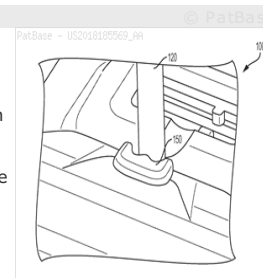
4) Family number: 70341965 (US2018185569A)

ANTI-OCCLUSION INTRAVENOUS TUBE PORT

Abstract: Source: US2018185569A An infusion pump includes a housing. The housing includes a tube port adapted to receive an intravenous ("IV") tube. The tube port includes a tube channel and a rib. The tube channel has an inlet and an outlet end. The rib is positioned along the channel adjacent the outlet end. The rib is formed to extend towards the tube when the tube is passed through the tube port thereby indenting the tube and tending to prevent full occlusion of the tube. The tube port may also include a plurality of ribs positioned around a perimeter of the tube port on the exterior side of the housing. The plurality of ribs are configured to prevent an occlusion in the tube when the tube is bent on the exterior side of the housing.

Probable Assignee: BAXTER HEALTHCARE SA

Earliest Publication Date: 20180705



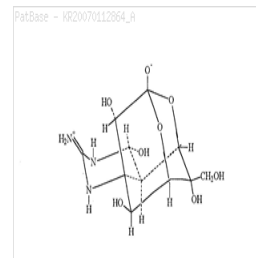
5) Family number: 20790744 (US6407088B)

METHOD OF ANALGESIA

Abstract: Source: US6407088B This invention relates to a method of producing analgesia in a mammal experiencing pain by systemically administering an effective amount of a composition comprising essentially of a sodium channel blocking compound, in a suitable pharmaceutical vehicle, to alleviate the pain.

Probable Assignee: WEX MEDICAL LTD

Earliest Publication Date: 20020321



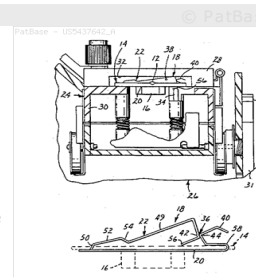
6) Family number: 12073510 (US5437642A)

FREE FLOW PREVENTION SYSTEM FOR INFUSION PUMP

Abstract: Source: US5437642A A free flow prevention system for preventing undesired free flow of fluid through IV tubing of the type used in an infusion pump. The system comprises a spring clip having a base and a spring arm defining a channel adapted to receive the IV tubing. The spring arm is resiliently biased to a closed position in which the IV tubing is squeezed by the spring clip to close the lumen to prevent fluid flow, and the spring arm is movable against the bias to an open position wherein the lumen of the IV tubing is allowed to open to allow flow. The system also includes a clip-opening pin in the infusion pump for moving the spring arm of the clip from its closed position to the open position. The clip-opening pin is movable relative to the spring clip to move the spring arm between an unloading position, in which the clip-opening pin does not hold the spring arm in its open position, and an operating position, in which the clip-opening pin moves the spring arm to its open position and holds the spring arm in the open position.

Probable Assignee: GRASEBY MEDICAL LTD

Earliest Publication Date: 19921024



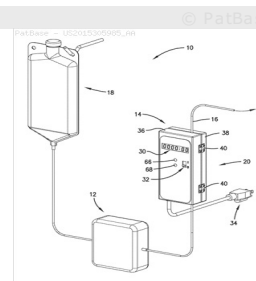
7) Family number: 60680679 (US2015305985A)

ENTERAL FEEDING WARMING SYSTEM

Abstract: Source: US2015305985A An enteral feeding warming system for warming enteral feeding fluid and delivering the feeding fluid to an infant or other patient comprises a pump, a warming device, and an enteral feeding tube. The pump may be connected to an enteral feeding fluid source. The warming device includes a housing, a heating element, a heat spreader, a temperature sensor, a controller, a display, a number of user inputs, and a power source. The housing includes outer walls defining an interior chamber and a feeding tube channel separate from the interior chamber. The interior chamber retains the heating element, heat spreader, temperature sensor, and controller therein. The feeding tube channel includes a number of turns and straight sections for increasing an effective length of the feeding tube channel and receives an intermediate portion of the enteral feeding tube therein.

Probable Assignee: NEONATAL PRODUCT GROUP INC

Earliest Publication Date: 20151029



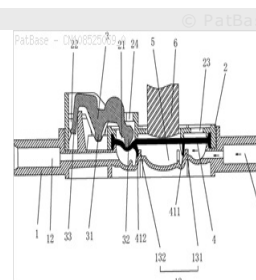
8) Family number: 71160183 (CN108525069A)

SPECIAL LIQUID FEEDING DRIVING DEVICE FOR INFUSION PUMP

Abstract: Source: CN108525069A The invention discloses a special liquid feeding driving device for an infusion pump. According to the technical scheme, the special liquid feeding driving device for the infusion pump comprises a shell, wherein a liquid inlet channel and a liquid outlet channel are separately formed in two ends of the shell; a first lug which is close to the liquid inlet channel and a second lug which is close to the liquid outlet channel are arranged on the shell; a silicon valve element is fixed on the shell and is provided with a first sheet and a second sheet; the first sheet is arranged at the end, which is away from the liquid inlet channel, of the first lug; the second sheet is arranged at the end, which is close to the liquid outlet channel, of the second lug; a liquid storage space is formed by the shell and the silicon valve element and positioned between the first lug and the second lug; when the first sheet is attached to the first lug, the liquid inlet channel is isolated from the liquid storage space; and when the second sheet is attached to the second lug, the liquid storage space is isolated from the liquid outlet channel. The special liquid feeding driving device for the infusion pump is further provided with a switch for controlling attachment between the second sheet and the second lug, and the surface, which is away from the liquid storage space, of the silicon valve element faces a push rod of the infusion pump. The special liquid feeding driving device for the infusion pump has the advantages that the infusion quantity can become stable, and stability of intravenous infusion is improved.

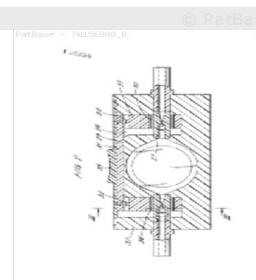
Probable Assignee: JIANGSU JEV AND KEV MEDICAL TECH CO LTD

Earliest Publication Date: 20180914



9) Family number: 45125171 (TW156998B)

THE PHYSIOLOGICAL MEDICINE USES THE PUMP EQUIPMENT (MACHINE TRANSLATION)



Abstract: Source: TW156998B

Machine translation: But the pump-unit (1) contains limits a pump chamber (6) and exports the channel of inlet passage with this pump chamber connect (15, 20) a pump main body (2), the affiliation moves one of this pump chambers to be possible the flexure wall to be possible to change of in the operation a piezoelectricity membrane this pump chamber volumes (10) as well as is located this inlet passage with to export first of separately in channels with the second valve (13, 18), in which each valve contains a valve component (22, 25), but this valve component may respond migration the affiliation this wall to have the pressure or the inspiration in this pump chamber with a synergism valve seat (21, 24) joinsOr separation. Various magnets (30, 36) may operate cause this and so on the valve components to move to and position of the valve seat joint. Including this and so on the valves this main body for may get rid of the goods. The function in this and so on of firing devices the magnet (33) allowed this and so on the valves leave the valve seat, makes the liquid to enter and to start this room. On this piezoelectricity membrane various feelings measured electrode (63, 64) in pumping liquid (for example in intravenous injection when medicament of the transportation) when the feeling measures unenlightened or the air bubble.

Probable Assignee: BETH BARKER CO

Earliest Publication Date: 19910501

10) Family number: 17556843 (CN2208928Y)

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DISPOSABLE DRUG DISPENSING DEVICE

Abstract: Source: CN2208928Y The utility model relates to a drug dispensing tool for dispensing intravenous injection drugs in medical departments. The structure of the utility model is composed of a power pump (1), drug dispensing pipes (2), a drug dispensing needle (3), and a bottle-inserting needle (4), wherein, the drug dispensing needle is composed of a short channel (9) of the drug dispensing needle and a long channel (10) of the drug dispensing needle, the short channel (9) and the long channel (10) are fixed on a needle cushion (8), and are respectively provided with an opening at different horizontal surfaces; the short channel of the drug dispensing needle and the long channel of the drug dispensing needle respectively connected with the power pump and bottle-inserting needle through the dispensing pipes at the point near two ends of the two channels. The utility model has the advantages that when the utility model is in use, the drug dispensing procedure can be simplified; chances of cross infection can be decreased during drug dispensing processes in hospitals.

Probable Assignee: DENG CHUNHUA

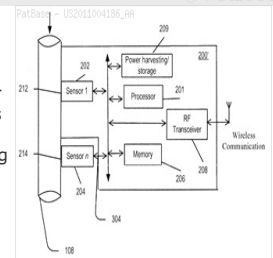
Earliest Publication Date: 19951004

11) Family number: 48069332 (US2011004186A)

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FLUID DELIVERY SYSTEMS AND METHODS HAVING WIRELESS COMMUNICATION

Abstract: Source: US2011004186A A fluid delivery system includes a disposable portion and a non-disposable portion configured to communicate with each other wirelessly. The disposable portion includes electrical elements such as one or more sensors configured to be in sensing proximity of fluid, a processor, a memory and a transceiver. The transceiver is configured to receive radio frequency energy from a transmitter located on the non-disposable portion and power the electrical elements on the disposable portion. The non-disposable portion wirelessly controls the disposable portion during a fluid delivery session by programming operational parameters and monitoring fluid delivery measurements over the wireless communication link.



Probable Assignee: CAREFUSION 303 INC

Earliest Publication Date: 20110106

12) Family number: 53207639 (CN202777286U)

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EXTENSION TUBE FOR Y-SHAPED PUMP

Abstract: Source: CN202777286U The utility model discloses a Y-type pump with extension tubes, including the extension tube body, the first syringe pump side interface, a second syringe pump side interface, the patient-side interface, the extension pipe body a patient end termination interface, the other end The first syringe pump connected to the local interface, extended pipe main body flanked by a branch pipe, tube and extension tube branch of the substantially Y-placed, the branch pipe connected to the ends of the second micro-injection pump terminal interface. The utility model in the original single-channel single-base extension pipe pipeline pump on the increase in the establishment of multi-path single intravenous injection pipes may be able to effectively maintain a steady infusion of the drug, to reduce the infusion of replacement drugs and drug interruption time reflux, improve patient medication safety, reduce patient costs, reduce the workload of care.

Probable Assignee: CHEN ZHONGQING

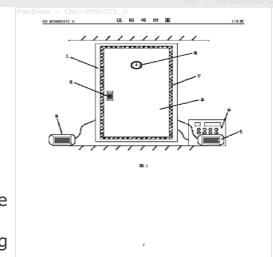
Earliest Publication Date: 20130313

13) Family number: 57512078 (CN203856371U)

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SEAL WALLBOARD DOOR DEVICE FOR PRODUCTION OF HUMAN IMMUNOGLOBULIN FOR INTRAVENOUS INJECTION

Abstract: Source: CN203856371U The utility model discloses a seal wallboard door device for the production of human immunoglobulin for intravenous injection and aims to provide the seal wallboard door device for production of human immunoglobulin for intravenous injection, having good sealing effect and long service life. According to the technical scheme, the seal wallboard door device is characterized by comprising a door frame and a door plate connected to the door frame through hinges; the door plate is provided with a door lock and a sealing mechanism; the sealing mechanism comprises a sealing frame; the sealing frame disposed within the door frame is in a circular structure along the inner side of the door frame; the sealing frame is tightly abutted to the door plate; one side, facing the door plate, of the sealing frame is provided with a vacuum channel; the vacuum channel is in a circular structure along the inner side of the sealing frame; the vacuum channel consists of a bottom and two sides; a seal strip is arranged on each side of the vacuum channel; the seal strips are abutted to the door plate; a seal pad is arranged at the part, abutted to the sealing frame, of the door plate; the bottom of the door plate is provided with a plurality of air holes; all of the air holes are connected with an evacuating pump through a guide pipe. The seal wallboard door device is applicable to the production of human immunoglobulin for intravenous injection.



Probable Assignee: ZHEJIANG HAIKANG BIOLOG PRODUCTS CO LTD

Earliest Publication Date: 20141001

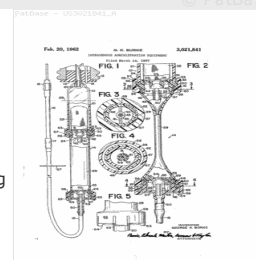
14) Family number: 22768045 (US3021841A)

INTRAVENOUS ADMINISTRATION EQUIPMENT

Abstract: Source: US3021841A (Claim 1) 1. I claim: L An intravenous administration apparatus of the type adapted to provide a continuous channel for injection fluid flowing from a source of supply to a hypodermic 5 cannula comprising, in combination, a drip observation chamber, a pump below the chamber, channel forming means connecting said pump and chamber in series relation, said channel forming means including a check valve located below said chamber and above said pump, said 10 check valve comprising a valve fitting having an upper wall and depending side walls forming a downwardly opening valve chamber, said upper wall having an opening therein forming an inlet, a valve seat surrounding said inlet and exposed to said valve chamber, said fitting 15 having an annular recess therein surrounding said valve seat and located above said seat forming an air pocket, and a valve element movably supported below said valve seat and adapted for movement into sealing relation with said valve seat and formed of a material of less density 20 than the injection fluid.

Probable Assignee: BAXTER LABORATORIES INC

Earliest Publication Date: 19620220



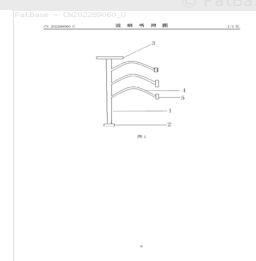
15) Family number: 51481849 (CN202289060U)

INFUSION DEVICE WITH BODY CONNECTING PIPE FOR MULTI-CHANNEL MICRO PUMP

Abstract: Source: CN202289060U The utility model relates to an infusion device with a body connecting pipe for a multi-channel micro pump, which comprises the body connecting pipe. An intravenous infusion pipe connecting joint is arranged at the front end of the body connecting pipe, and a micro pump connecting joint is arranged at the rear end of the body connecting pipe; the pipe wall of the body connecting pipe is connected with more than one side pipes; the side pipes are all communicated with the body connecting pipe; and a micro pump connecting joint is arranged at one end of each side pipe. The internal diameter of the body connecting pipe and the internal diameter of each side pipe are 0.2 millimeter respectively. The length of the body connecting pipe is 150 centimeter. The length of each side pipe is 20 centimeter. A nano anti-infection coating layer is respectively covered on the inner wall of the body connecting pipe and the inner wall of each side pipe. The infusion device has the beneficial effects that a plurality of drugs can be pumped through the side pipes simultaneously to ensure the treatment timeliness; as the drugs are respectively pumped by the micro pump, the pumping quantity is accurate; the body connecting pipe is not easy to buckle, is large in length, is convenient for a patient to turn over or receive treatment; and through the coating layers on the inner walls, the infection caused after long-time use can be prevented.

Probable Assignee: XIANGRUI WANG

Earliest Publication Date: 20120704



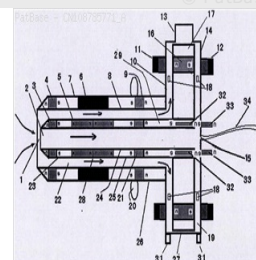
16) Family number: 71833432 (CN108785771A)

LOCAL DRUG RELEASE ANTICOAGULATION CENTRIFUGAL PUMP HEART ASSISTING DEVICE

Abstract: Source: CN108785771A The invention relates to a local drug release anticoagulation centrifugal pump heart assisting device. The device is composed of a symmetric structure centrifugal impeller (29) and a centrifugal pumpcasing (27); a gap between the outer wall of an impeller cylinder (23) and an inner wall of a pump cylinder (26) is a blood flow auxiliary flow channel (22), and a cavity in the inner wall (26) of the impeller cylinder is a blood flow main flow channel (2); a axial control winding (6) can control the axial position of the centrifugal impeller (29); a front rotor suspension magnetic ring (3) and arear rotor suspension magnetic ring (21) form a front and rear permanent magnet radial suspension bearing with a front stator suspension magnetic ring (4) and a rear stator suspension magnetic ring (9); a drug release micropore (15) is formed in the center of a blade cavity rear wall (14), and is communicated with a subcutaneous intravenous port (35) through a drug catheter (34), and when a drug is injected into the subcutaneous intravenous port (35), the drug is locally released into a centrifugal pump cavity; the centrifugal impeller (29) rotates in the positive and negative directions to produce the same blood flow output.

Probable Assignee: LI GUORONG

Earliest Publication Date: 20181113



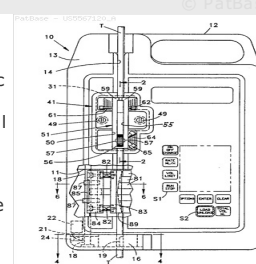
17) Family number: 11714283 (US5567120A)

ELECTRONIC INFUSION DEVICE AND NOVEL ROLLER CLAMP HOLDEN THEREFOR

Abstract: Source: US5567120A A holder for an IV tube roller clamp is removably secured in the housing of an electronic infusion device, and has in opposite ends thereof a pair of photo-electric devices, one of which detects when the roller of the clamp is in its tube opening position, and the other detects when the roller is in tube closing position. A lever is pivotal on the housing between a closed position in which it operatively connects the IV tube to a pump unit in the housing, and an open position in which it permits removal of the IV tube from the unit. The spring-loaded armature of a solenoid prevents the lever from being opened until the solenoid coil is energized, and the photo-electric devices prevent the solenoid coil from being energized until the roller is in its tube closing position. When closed, the lever overlies part of the tube channel in which the IV tube is seated and also shifts a pressure plate in the pump unit to a position in which a lip thereon overlies another portion of said channel.

Probable Assignee: SIGMA INT

Earliest Publication Date: 19961022



18) Family number: 73418592 (CN305057425S)

WITH INTERACTIVE INTERFACE, DUAL-CHANNEL INJECTION PUMP (MACHINE TRANSLATION)

Abstract: Source: CN305057425S 1. The design product name: With interactive interface, dual-channel injection pump. 2. The product design uses: This design product for administration of constant intravenous infusion or liquid medicine, accurate continuous injection. 3. The design product design points are: In that figure, the configuration, shape, pattern, and visual interactive interface dual-channel injection pump. 4. The best indicator of the design elements of the picture or photo: Plan View. 5. interface changes state Figure 1 is a standard home interface display interface, display interface from the interface changes state Figure 2 is a standard home interface, click the Stop icon to enter the main interface dynamic refresh time selection interface, change state diagram 2 is a dynamic refresh the main interface.

Probable Assignee: SHENZHEN COMEN MEDICAL INSTRUMENTS CO LTD

Earliest Publication Date: 20190305



19) Family number: 73419281 (CN305057858S)

WITH INTERACTIVE INTERFACE SINGLE CHANNEL INJECTION PUMP (MACHINE TRANSLATION)

Abstract: Source: CN305057858S 1. The design product name: With interactive interface single channel injection pump. 2. The product design uses: This design product for administration of constant intravenous infusion or liquid medicine, accurate continuous injection. 3. The design product design points are: In that figure, the configuration, shape, pattern, and visual interactive interface single channel injection pump. 4. The best indicator of the design elements of the picture or photo: Plan View. 5. interface changes state Figure 1 is a standard home interface display interface, display interface for the interface changes state diagram 2 by hardware buttons for switching the interface curve interface.

Probable Assignee: SHENZHEN COMEN MEDICAL INSTRUMENTS CO LTD

Earliest Publication Date: 20190305



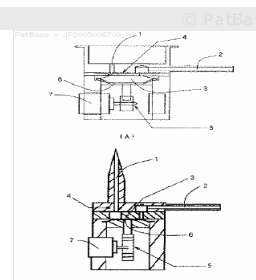
20) Family number: 31582728 (JP2005006709A)

MEDICAL CAP

Abstract: Source: JP2005006709A PROBLEM TO BE SOLVED: To provide a medical cap capable of administering an intravenous drip injection to a patient even during the movement of the patient or on the way home from a hospital. SOLUTION: The medical cap has a liquid inflow part 1, a liquid outflow part 2 and a liquid flow channel 4 having the flow part 3 for connecting the inflow and outflow parts provided therein and a pump means 5 for allowing a liquid to flow to the outside from the outflow part 2 provided to the liquid flow channel 4. The pump means 5 is constituted of at least a diaphragm 6 constituting a part of the liquid flow channel 4 and a power device 7 for moving the diaphragm 6 up and down.

Probable Assignee: NAIGAI KASEI KK

Earliest Publication Date: 20050113



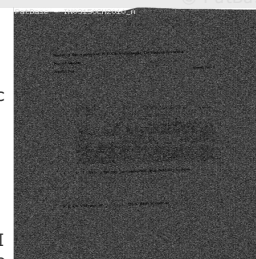
21) Family number: 47581928 (IN03150CH2010A)

MOBILE CONTROLLED DRUG DELIVERY SYSTEM

Abstract: Source: IN03150CH2010A Modern health care system aims at absolute independence from external factors such that, the work can be according to the need of the subject / patient. Patients, especially those suffering from chronic ailments need timely dosage of drugs to maintain physiological conditions. Hence, proper infusions of these drugs become extremely important. The present invention relates to a control system with an automated intravenous drug and fluid infusion system. There is a pumping channel that operates for intravenous infusion of drugs and fluids. The system is controlled by the microcontroller that on receiving signals from the DTMF decoder analyses the input and acts according to the instructions programmed. Keeping this in mind, I propose to design a totally automated infusion system which will be capable of delivering the drug to the patient at the time when it is needed. The system when developed will be able to inject drug to the patient at regular intervals of time without personal monitoring from the staff. In this model I have designed an infusion system controlled by DTMF signals such that the drug to the patient is delivered wirelessly. The condition of the patient is noted by the doctor and the relevant instructions are given to the system using a mobile phone. The effect of GSM phones on the infusion pumps is negligible and at safe distance they do not cause harm to the patients either. The main aim of developing wireless intravenous multidrug delivery system is when the doctor receives the status of the patient periodically and the doctor can himself control the infusion settings for a patient by using his mobile phone to infuse into the patient, based on the patient conditions like glucose concentration, blood pressure and some other select parameters.

Probable Assignee: DR SUDESH SIVARASU

Earliest Publication Date: 20101112



22) Family number: 58378017 (CN104307069A)

DUAL-CHANNEL ANESTHESIA TARGET CONTROLLED INFUSION CONTROL METHOD ADOPTING PROPOFOL AND SUFENTANIL

NT值	K ₁ 初始值	K ₂ 初始值
-10	50	80
-9	50	80
-8	50	80
-7	65	80
-6	65	80
-5	65	80
-4	65	80
-3	—	80
-2	—	65
-1	—	—
0	—	—
1	—	—
2	—	90
3	—	90
4	90	70
5	90	70
6	90	70
7	90	70
8	90	70
9	60	70
10	50	40

Abstract: Source: CN104307069A The invention discloses a dual-channel anesthesia target controlled infusion control method adopting propofol and sufentanil. The method comprises the steps: receiving initial effect compartment concentration of the propofol and setting the initial effect compartment concentration of the sufentanil according to the concentration value; respectively transmitting the initial effect compartment concentrations of the propofol and sufentanil to a corresponding intravenous infusion pump so as to infuse the medicine; acquiring a brain wave signal of a patient in real time by adopting an electroencephalogram consciousness monitoring system; calculating the error value of the brain wave signal, judging whether the error value is zero or not, ending if the error value is zero, and continuing otherwise; acquiring the effect compartment target concentration of the propofol and sufentanil at the current moment, respectively transmitting the target effect compartment target concentration of the propofol and sufentanil to the corresponding intravenous infusion pump so as to update the parameter after calculating the target effect compartment target concentration of the propofol and sufentanil. By adopting the method, the infusion control can be carried out according to the brain wave signal of the patient in the infusion process, the mistake caused by the manual operation can be avoided, the precision is high, the safety is high, and the method can be widely applied to the anesthesia target controlled infusion field.

Probable Assignee: GUANGZHOU GENERAL HOSPITAL OF GUANGZHOU MILITARY COMMAND

Earliest Publication Date: 20150128

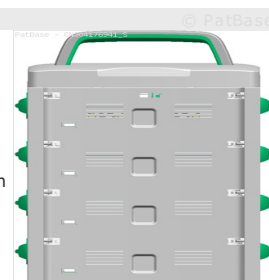
23) Family number: 66018151 (CN304176941S)

MULTI-CHANNEL INFUSION WORKSTATION (MACHINE TRANSLATION)

Abstract: Source: CN304176941S 1. The design product name: Multi-channel infusion workstation; 2. The product design uses: This design product for hospital patients were constant intravenous infusion liquid or drugs, accurate continuous infusion; Which provides a modular housing, which can be placed into the infusion pumps, syringe pumps, infusion pumps, syringe pumps, to achieve on-demand combination, constitute a multi-channel syringe pump and infusion pump to work independently or cascaded between, you can demand the 1-54 of any of the number of the box combined into a whole; 3. The design product design points are: The shape of a product; 4. The best indicator of the design elements of the picture or photo: Perspective view.

Probable Assignee: MEDCAPTAIN MEDICAL TECHNOLOGY CO LTD

Earliest Publication Date: 20170613

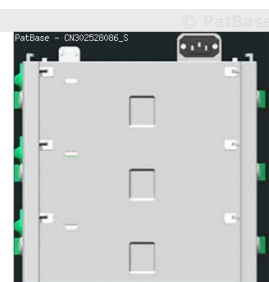


24) Family number: 54674719 (CN302528086S)

INFUSION SYSTEM (MACHINE TRANSLATION)

Abstract: Source: CN302528086S 1. This design product name: infusion system; 2. This design product uses: for hospital patients were intravenous infusion at a constant speed and accurate continuous infusion of fluid or drug use, which provides a modular cabinet, to achieve a combination of on-demand infusion pumps, syringe pump, the multi-channel syringe pump and infusion pump in cascade between independent or work; 3. Design elements of the design: the shape, rear view top product guide guides A, B and bottom rail guides C, D design; 4. The best indicator of design elements or photographs: a perspective view.

Earliest Publication Date: 20130807



25) Family number: 73419156 (CN305057852S)

DOUBLE-CHANNEL SYRINGE PUMP (MACHINE TRANSLATION)

Abstract: Source: CN305057852S 1. The design product name: Double-channel syringe pump. 2. The product design uses: This design product for intravenous injection. 3. The design product design points are: As shown in Fig. shape, pattern, and configuration. 4. The best indicator of the design elements of the picture or photo: Perspective view.

Probable Assignee: SHENZHEN COMEN MEDICAL INSTRUMENTS CO LTD

Earliest Publication Date: 20190305



26) Family number: 73419178 (CN305057853S)

SINGLE-CHANNEL SYRINGE PUMP (MACHINE TRANSLATION)

Abstract: Source: CN305057853S 1. The design product name: Single-channel syringe pump. 2. The product design uses: This design product for intravenous administration to the patient. 3. The design product design points are: As shown in Fig. shape, pattern, and configuration. 4. The best indicator of the design elements of the picture or photo: Perspective view.

Probable Assignee: SHENZHEN COMEN MEDICAL INSTRUMENTS CO LTD

Earliest Publication Date: 20190305



27) Family number: 55699817 (CN302726859S)

DUAL SYRINGE PUMP (MACHINE TRANSLATION)

Abstract: Source: CN302726859S 1 The name of the product design: dual-channel syringe pump. 2. The use of product design: for intravenous injection. 3. The design design elements: the overall shape. 4. The best indicator of design elements or photographs: front view.

Earliest Publication Date: 20140129

28) Family number: 65171673 (CN106491236A)

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LONG-ACTING HIGH-DEFINITION INTENSIFIED RADIOGRAPHY METHOD FOR CT OF TINY ANIMAL

Abstract: Source: CN106491236A Provided is a long-acting high-definition intensified radiography method for CT of a tiny animal. The method adopts the radiography technology of the replacement of a nanometer gold ion contrast agent with diodone and dual-channel injection. The method comprises the steps of firstly, using an anesthesia pump to make the tiny animal inhale isoflurane air and under narcotism, conducting rump vein cutting paracentesis with a 24 g trocar, injecting diodone to the rump vein by using intravenous injector infusion, meanwhile, adopting the deep cervical vein to cut the jugular vein intubation, and adopting a injection pump to inject diodone. By injecting the contrast agent through dual channels, the long-acting high-definition intensified radiography method for CT of the tiny animal not only drastically improves the image quality, but also improves the efficiency of tiny animal radiography work. The cost of diodone is very low, and the operation cost reduces greatly. Diodone, used in the long term in the market, is adopted, the untoward effects of the contrast agent and the influence on experimental individuals after usage have gone through long-term clinical assessment, however, the untoward effects of the nanometer gold ion contrast agent have not gone through long-term assessment, the nanometer gold ions can pollute the environment, and the price of the nanometer gold ions is high.

Probable Assignee: ZHU YAXIN

Earliest Publication Date: 20170315

29) Family number: 68511173 (CN304499465S)

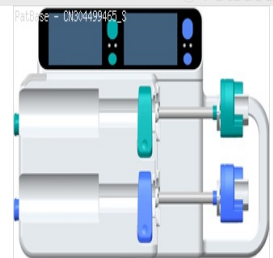
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INJECTION PUMP (MACHINE TRANSLATION)

Abstract: Source: CN304499465S 1. The design product name: The injection pump. 2. The product design uses: This design product for a hospital for human intravenous infusion liquid to precise constant speed, in each channel installed syringe can be independently or cascaded manner. 3. The design product design points are: The overall shape of the product and its button shape. 4. The best indicator of the design elements of the picture or photo: Perspective view.

Probable Assignee: MEDCAPTAIN MEDICAL TECHNOLOGY CO LTD

Earliest Publication Date: 20180209



30) Family number: 23560983 (US2003212123A)

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COX-2 SELECTIVE CARPROFEN FOR TREATING PAIN AND INFLAMMATION IN DOGS

Abstract: Source: US2003212123A Treating or preventing inflammatory processes and diseases in dogs associated with the activity of inducible cyclo-oxygenase-2 (COX-2), while at the same time reducing or eliminating undesirable side effects associated with simultaneous inhibition of the activity of constitutive cyclo-oxygenase-1 (COX-1) by selectively inhibiting COX-2 activity with reference to COX-1 activity, wherein the selectivity ratio or COX-2:COX-1 activity inhibition is at least 3:1 based on ex vivo inhibition levels measured in whole blood; the inhibitor is a member selected from the group of anti-inflammatory compounds consisting essentially of salicylic acid derivatives, p-aminophenol derivatives, indole and indene acetic acids, heteroaryl acetic acids, arylpropionic acids, anthranilic acids, enolic acids, and alkanones; the inhibitor in particular is comprised of (+)(S)-enantiomer of 6-chloro-alpha-methyl-9H-carbazole-2-acetic acid.

Probable Assignee: PFIZER

Earliest Publication Date: 19981112

