Search history

Search 1: FT=(syringe and adapt* and coding and block) (Results 9798)

Search 2: FT=(syringe and adapt* and coding and block) and IC=(a61m) (Results 592)

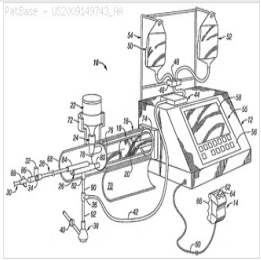
Search 3: FT=(syringe and adapt* and coding and block and medical) and IC=(a61m) (Results 526)

Search 4: FT=(syringe and adapt* and coding and block and medical and inject*) and IC=(a61m) (Results 483)

Search 5: FT=(syringe and adapt* and coding and block and medical 1w (inject* or delivery)) and IC=(a61m) (Results 41)

1) Family number: 34502160 (US2009149743A)

MEDICAL FLUID INJECTION SYSTEM



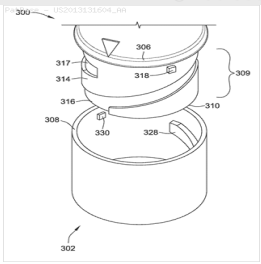
Abstract: Source: US2009149743A One embodiment provides a method of using contextual lighting to assist a user of a medical fluid injection system. In this embodiment, the method includes providing a lighted display in proximity to a component of the injection system during setup of the medical fluid injection system. If the user has properly performed a setup function that is associated with the component of the injection system, the method further comprises providing a first visual indication on the lighted display. If the user has not properly performed the setup function that is associated with the component of the injection system, the method further comprises providing a second visual indication on the lighted display.

Probable Assignee: ACIST MEDICAL SYSTEMS INC

Earliest Publication Date: 20070531

2) Family number: 49809364 (US2013131604A)

CODED CARTRIDGE ASSEMBLY



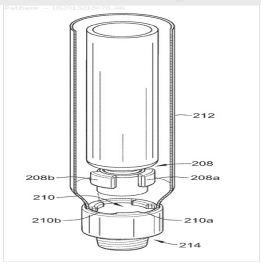
Abstract: Source: US2013131604A Disclosed herein are cartridge assemblies that include coding features that help dedicate a medicament reservoir to specific injection devices. An exemplary cartridge assembly comprises a cylindrical inner surface for holding medicament and a cylindrical outer surface comprising at its proximal end one or more stops configured as coding elements protruding from the cylindrical outer surface. Each coding element is configured only to engage a corresponding coding feature on a dose setting and delivery mechanism, thereby allowing only the correct cartridge assembly to connect to the dose setting and delivery mechanism.

Probable Assignee: SANOFI AVENTIS DEUTSCHLAND GMBH

Earliest Publication Date: 20111027

3) Family number: 50640599 (US2013218078A)

CODING SYSTEM FOR A DRUG DELIVERY DEVICE AND DRUG DELIVERY DEVICE



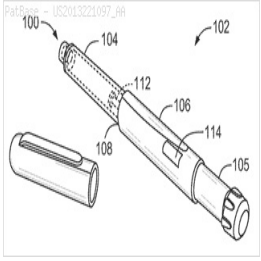
Abstract: Source: US2013218078A A coding system for a drug reservoir, where the drug reservoir is intended for use with a reservoir holder of a drug delivery device. The coding system includes a collar fitted around the drug reservoir. The collar includes a coding feature that is configured to pass through a corresponding coding feature provided by the reservoir holder of the drug delivery device.

Probable Assignee: SANOFI AVENTIS DEUTSCHLAND GMBH

Earliest Publication Date: 20120216

4) Family number: 50664269 (US2013221097A)

METHOD AND SYSTEM FOR DETERMINING INFORMATION RELATED TO A DRUG RESERVOIR USING AN ELECTRONIC SENSOR



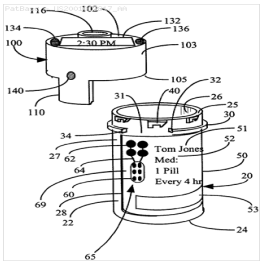
Abstract: Source: US2013221097A A **medical** **delivery** device may include at least one electronic sensor and a decoding module. The at least one electronic sensor and the decoding module are configured to (i) identify a coding feature of a drug reservoir inserted in the **medical** **delivery** device and (ii) determine information related to the drug reservoir based on the identified coding feature.

Probable Assignee: SANOFI AVENTIS DEUTSCHLAND GMBH

Earliest Publication Date: 20120223

5) Family number: 28313446 (US2001017817A)

PRODUCT LABELING METHOD AND APPARATUS



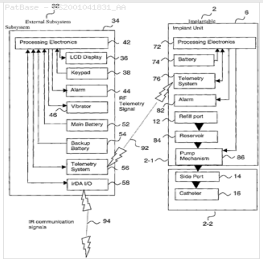
Abstract: Source: US2001017817A A method and apparatus for configuring indicating configurations for containers wherein at least a subset of indicating configurations include an enhanced indicating device such as an electronic storage device, the containers to include enhanced devices being a function of whether or not the end user uses an interacting device capable of receiving information from the enhanced devices, the method and system indicating whether or not standard or enhanced containers should be used for specific prescriptions or orders and, in some cases, automatically providing the correct container and specifying (i.e., printing and writing) information to the containers.

Probable Assignee: SOUTHWEST TECHNOLOGY INNOVATIONS LLC

Earliest Publication Date: 19980620

6) Family number: 28022005 (US2001041831A)

AMBULATORY MEDICAL APPARATUS AND METHOD HAVING TELEMETRY MODIFIABLE CONTROL SOFTWARE



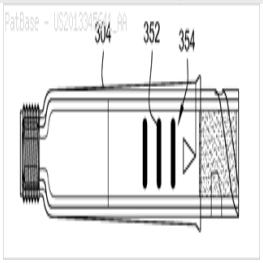
Abstract: Source: US2001041831A An implanted medical device (e.g. infusion pump) and handheld communication device wherein the implantable device is capable of operating under control of different software programs, wherein a first program operates after resetting the implantable device and is not capable of providing significant medical functionality but is capable of selected telemetry operations including telemetry operations that allow replacement software to be downloaded, and wherein a second program may be caused to take control of the device and is capable of significant medical functionality and selected telemetry operations but is incapable of receiving replacement software. A software image may be received in multiple messages where each message is provided with its own validation code and wherein a validation code for the whole image is provided and wherein each provided validation code must compared to a derived validation code prior to accepting the validity of the replacement software.

Probable Assignee: MEDTRONIC INC

Earliest Publication Date: 20010726

7) Family number: 50640588 (US2013345641A)

CODING SYSTEM FOR A DRUG DELIVERY DEVICE AND DRUG DELIVERY SYSTEM



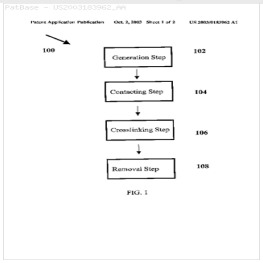
Abstract: Source: US2013345641A A system for reducing the risk of an incorrect selection or dispensing of a drug dose for use with a cartridge and a cartridge holder so as to prevent unwanted reservoir cross use. The coding system for use with the drug delivery device includes a first partial code feature and a second partial code feature. The first partial code feature and the second partial code feature cooperate to supply a combined visual indicator when the cartridge is assembled to the holder for indicating that a correct cartridge has been assembled to the holder.

Probable Assignee: SANOFI AVENTIS DEUTSCHLAND GMBH

Earliest Publication Date: 20120216

8) Family number: 30065447 (US2003183962A)

PROCESSES FOR MANUFACTURING POLYMERIC MICROSPHERES



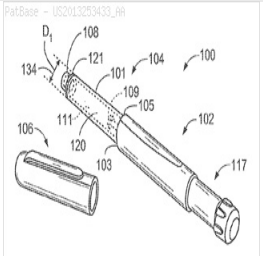
Abstract: Source: US2003183962A Processes of manufacturing polymeric microspheres facilitate the generation of polymeric microspheres of size ranges smaller than 600 microns diameter by forming beads of a predetermined size from a starting material which may include a template polymer, and subsequently contacting the beads with a structural polymer. After crosslinking of the structural polymer has taken place, the template polymer may be removed to form the finished microspheres.

Probable Assignee: BOSTON SCIENTIFIC SCIMED INC

Earliest Publication Date: 20031002

9) Family number: 51341695 (US2013253433A)

DEDICATED CARTRIDGE



Abstract: Source: US2013253433A A cartridge assembly for use with a drug delivery device is specified. The cartridge assembly comprises a cartridge with a retention cap and a cartridge holder. According to one aspect, the cartridge and the cartridge holder may be configured to be fixed to each other in a predetermined position According to another aspect, the retention cap comprises at least one coding feature configured to affix said cartridge to said cartridge holder in the predetermined position by the mating of said coding feature with a corresponding coding feature on the cartridge holder.

Probable Assignee: SANOFI AVENTIS DEUTSCHLAND GMBH

Earliest Publication Date: 20120628

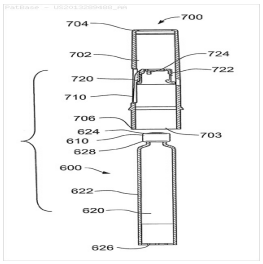
10) Family number: 51421330 (US2013289488A)

DEDICATED CARTRIDGE AND HOLDER

Abstract: Source: US2013289488A A cartridge assembly for use with a drug delivery device comprises: a cartridge holder defining an aperture therethrough, with a blocking feature and at least one holder coding feature; and a cartridge with at least one cartridge coding feature; wherein when the cartridge is inserted into the cartridge holder, the cartridge coding feature mates with the holder coding feature, moving the blocking feature or allowing the blocking feature to move.

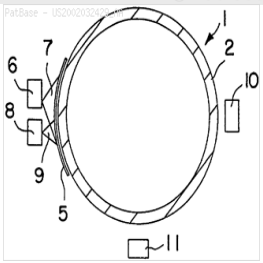
Probable Assignee: SANOFI AVENTIS DEUTSCHLAND GMBH

Earliest Publication Date: 20120705



11) Family number: 44029 (US2002032429A)

DELIVERY DEVICE AND METHOD FOR ITS OPERATION



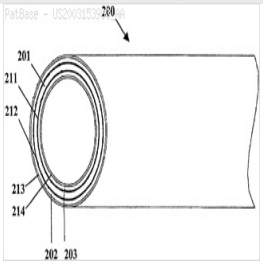
Abstract: Source: US2002032429A Provided is a method for operating a preparation delivery device wherein the device comprises a) a container for the preparation having, or being prepared for the arrangement of, an opening, b) a mechanism operable to deliver at least part of the preparation in the container through the opening, c) attachment means for connection of the container to the mechanism and d) a sensor system arranged to detect at least one predetermined property of the container or its content. The method comprises transmitting radiation towards the container position or a part thereof to allow the radiation to be affected by the container position, receiving at least a part of the affected radiation from at least an area part of the container position in a non-imaging way and comparing the characteristics of the received radiation with a predetermined characteristic representative for the predetermined property to establish whether or not the predetermined property of the container is present.

Probable Assignee: PHARMACIA AB

Earliest Publication Date: 19980105

12) Family number: 30048412 (US2003153983A)

IMPLANTABLE OR INSERTABLE MEDICAL DEVICE RESISTANT TO MICROBIAL GROWTH AND BIOFILM FORMATION



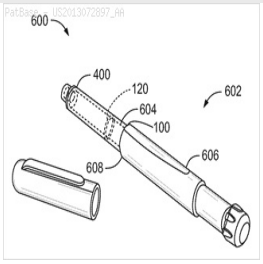
Abstract: Source: US2003153983A Disclosed are implantable or insertable medical devices that provide resistance to microbial growth on and in the environment of the device and resistance to microbial adhesion and biofilm formation on the device. In particular, the invention discloses implantable or insertable medical devices that comprise at least one biocompatible matrix polymer region, an antimicrobial agent for providing resistance to microbial growth and a microbial adhesion/biofilm synthesis inhibitor for inhibiting the attachment of microbes and the synthesis and accumulation of biofilm on the surface of the medical device. Also disclosed are methods of manufacturing such devices under conditions that substantially prevent preferential partitioning of any of said bioactive agents to a surface of the biocompatible matrix polymer and substantially prevent chemical modification of said bioactive agents

Probable Assignee: BOSTON SCIENTIFIC SCIMED INC

Earliest Publication Date: 20030814

13) Family number: 49335406 (US2013072897A)

METHOD AND SYSTEM FOR DETERMINING INFORMATION RELATED TO A DRUG RESERVOIR



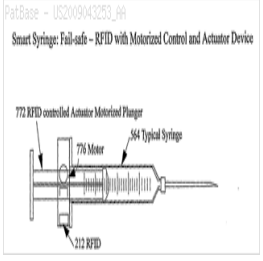
Abstract: Source: US2013072897A A method and system for detecting information related to a drug reservoir. The method includes transmitting energy at a coded material disposed on a drug reservoir, where the energy has at least one predefined characteristic. The coded material identifies information related to the drug reservoir. The coded material modifies the energy and emits the modified energy to a receiver. The method further includes receiving at the receiver the modified energy. The method further includes determining information related to the drug reservoir based on the modified energy as the drug reservoir is loaded into a drug delivery device.

Probable Assignee: SANOFI AVENTIS DEUTSCHLAND GMBH

Earliest Publication Date: 20110728

14) Family number: 34397044 (US2009043253A)

SMART MEDICAL COMPLIANCE METHOD AND SYSTEM



Abstract: Source: US2009043253A The smart medical compliance method and system invention prevents adverse drug events through the use of protocols that uniquely identifies the patient, care provider, medication and/or medical device that is to be used with radio frequency identification (RFID). The RFID devices incorporate fail-safe locks or indicators that prevent the inadvertent or unauthorized use of medication, medical devices, or medical supplies. The system corroborates, patient, the care provider, the medical device, and the manner in which it is to be used, and authorizes the action to be undertaken through an interface on a personal digital assistant PDA over a wireless communication channel. The system also timestamps events in the equivalent of a medical black box such that records may be kept to further improve patient care and allow an analysis of procedures. In addition, the system includes interfaces to medication preparation and safe disposal. A number of smart devices that interact with the system are also described. These include smart medical containers, smart clamps, smart valves, smart syringes, smart couplers, smart pipettes, and a host of other point of care devices.

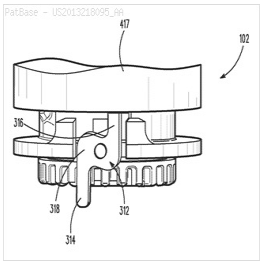
Probable Assignee: KYAB LULEA AB

Earliest Publication Date: 20070419

15) Family number: 50640702 (US2013218095A)

MECHANISM FOR PREVENTING SELECTION OF A DOSE

Abstract: Source: US2013218095A A dose setting mechanism having a locking mechanism for preventing selection of a dose in a drug delivery device is disclosed. The dose setting mechanism includes a locking mechanism that prevents movement of the dose setting mechanism. When a correct cartridge is inserted into the drug delivery device, the locking mechanism unlocks so as to allow movement of the dose setting mechanism. In one arrangement, the locking mechanism prevents rotation of the dose setting mechanism.

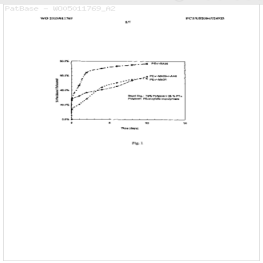


Probable Assignee: SANOFI AVENTIS DEUTSCHLAND GMBH

Earliest Publication Date: 20120216

16) Family number: 31496601 (US2005025802A)

IMPLANTABLE OR INSERTABLE MEDICAL DEVICES CONTAINING ACRYLIC COPOLYMER FOR CONTROLLED DELIVERY OF THERAPEUTIC AGENT



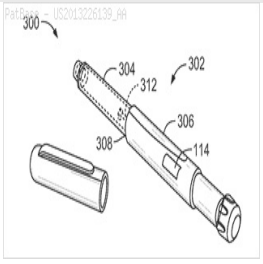
Abstract: Source: US2005025802A Implantable or insertable medical devices are described. The medical devices comprise (a) a therapeutic agent and (b) a polymeric release region, which controls the release of the therapeutic agent upon administration to a patient. The polymeric release region further comprises an acrylic copolymer, which comprises (i) a plurality of rubbery acrylic units and (ii) a plurality of hard units. Also described are methods for administering a therapeutic agent to a patient using the above implantable or insertable medical devices as well as methods of making the above devices.

Probable Assignee: BOSTON SCIENTIFIC SCIMED INC

Earliest Publication Date: 20050203

17) Family number: 50736073 (US2013226139A)

METHOD AND SYSTEM FOR DETERMINING INFORMATION RELATED TO A DRUG RESERVOIR



Abstract: Source: US2013226139A Disclosed herein are methods and systems for detecting information related to a drug reservoir. According to one example disclosed herein, a method includes a detector feature determining an electrical property related to a coded material for a drug reservoir, wherein the coded material comprises at least one circuit. The at least one circuit may be printed onto the drug reservoir. The method further includes determining information related to the drug reservoir based at least on the determined electrical property.

Probable Assignee: SANOFI AVENTIS DEUTSCHLAND GMBH

Earliest Publication Date: 20120301

18) Family number: 31497172 (US2005027283A)

IMPLANTABLE OR INSERTABLE MEDICAL DEVICES CONTAINING SILICONE COPOLYMER FOR CONTROLLED DELIVERY OF THERAPEUTIC AGENT

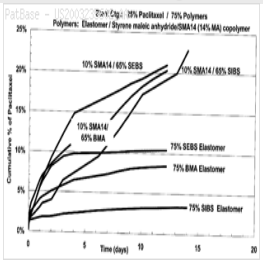
Abstract: Source: US2005027283A Implantable or insertable medical devices are described. The medical devices comprise (a) a therapeutic agent and (b) a polymeric release region, which controls the release of the therapeutic agent upon administration to a patient. The polymeric release region further comprises a silicone copolymer that contains a plurality of siloxane units and a plurality of non-siloxane units. Also described are methods for administering a therapeutic agent to a patient using the above implantable or insertable medical devices as well as methods of making the above devices.

Probable Assignee: BOSTON SCIENTIFIC SCIMED INC

Earliest Publication Date: 20050203

19) Family number: 30122630 (US2003235602A)

IMPLANTABLE OR INSERTABLE MEDICAL DEVICES FOR CONTROLLED DELIVERY OF A THERAPEUTIC AGENT



Abstract: Source: US2003235602A The present invention is directed to novel implantable or insertable medical devices that provide controlled release of a therapeutic agent. According to an embodiment of the present invention, a therapeutic-agent-releasing medical device is provided, which comprises: (a) an implantable or insertable medical device; (b) a release layer disposed over at least a portion of the implantable or insertable medical device; and (c) a therapeutic agent. The release layer comprises a styrene copolymer and at least one additional polymer. The release layer regulates the rate of release of the therapeutic agent from the medical device upon implantation or insertion of the device into a patient. The present invention is also directed to methods of forming the above implantable or insertable medical devices, methods of administering a therapeutic agent to a patient using such devices, and methods of modulating the release of therapeutic agent from such devices.

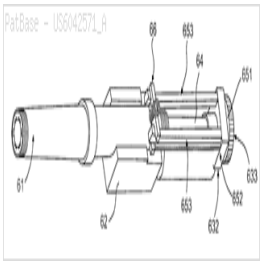
Probable Assignee: BOSTON SCIENTIFIC SCIMED INC

Earliest Publication Date: 20031225

20) Family number: 42814603 (US6042571A)

INJECTION DEVICE

Abstract: Source: US6042571A An injection device comprising a) a housing, b) a cartridge containing a preparation or precursor components for the preparation and having a front part and a rear part defining a general cartridge axis, an outlet for the preparation arranged at the front part and at least one movable wall arranged between the front part and the rear part, a displacement of which wall causes the preparation to be moved towards or expelled through the outlet, c) a piston rod, having a first end and a second end, at least partly contained within the housing and being operable to engage and displace the movable wall at its first end and d) actuating means within the housing arranged to move at least the rod. According to the invention the device comprises gripping means connected to the housing and arranged to hold the cartridge, or an enclosure therefore, with its front part distal and its rear part proximal to the housing, the actuating means being arranged to move the gripping means so as to move the cartridge, with its rear part leading, relative the housing, locking means able to lock the cartridge against axial movements relative to the housing, hereby defining a locked position for the cartridge, the actuating means being able to move the piston rod between at least one retracted position and at least one extended position, and the relative positions between the piston rod in its retracted position and the cartridge in its locked position being such that the piston rod extends into the cartridge. The invention also relates to a method for operating the device.



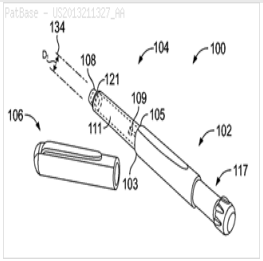
Probable Assignee: PHARMACIA AND UPJOHN AKTIEBOLAG

Earliest Publication Date: 19980105

21) Family number: 49809388 (US2013211327A)

CARTRIDGE ASSEMBLY HAVING SHARED FASTENING MEANS AND DRUG DELIVERY DEVICE

Abstract: Source: US2013211327A A cartridge assembly (200) having a shared fastening features for use with a drug delivery device (202). The cartridge assembly includes a cartridge holder (204), a drug cartridge (206), and a connector (208). The connector may be attached to the drug cartridge. The cartridge assembly further includes a fastening means (210, 212) for fastening to a drug delivery device, and this fastening means is shared between the cartridge holder and the cartridge or between the cartridge holder and the connector. The drug delivery device may be a reusable drug delivery device or a disposable drug delivery device.



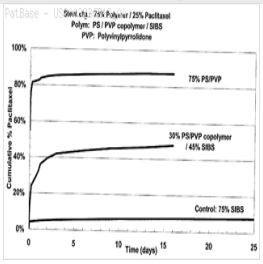
Probable Assignee: SANOFI AVENTIS DEUTSCHLAND GMBH

Earliest Publication Date: 20111027

22) Family number: 30123277 (US2003236513A)

IMPLANTABLE OR INSERTABLE MEDICAL DEVICES FOR CONTROLLED DELIVERY OF A THERAPEUTIC AGENT

Abstract: Source: US2003236513A The present invention is directed to novel implantable or insertable medical devices that provide release of a therapeutic agent. According to a first aspect of the present invention, a therapeutic-agent-releasing medical device is provided, which comprises: (a) an implantable or insertable medical device; (b) a release layer disposed over at least a portion of the implantable or insertable medical device, and (c) a therapeutic agent. The release layer regulates the rate of release of the therapeutic agent from the medical device upon implantation or insertion of the device into a patient. The release layer comprises (i) a first polymer comprising one or more polymer chains that form one or more polymer phase domains when the first polymer is in a pure solid-state form; and (ii) a second polymer comprising two or more polymer chains that form two or more phase domains when the second polymer is in a pure solid-state form. The first and second polymers are preferably selected such that at least one polymer chain in the second polymer is compatible with at least one polymer chain in the first polymer. The present invention is also directed to methods of forming the above implantable or insertable medical devices, methods of administering a therapeutic agent to a patient using such devices, and methods of modulating the release of therapeutic agents from implantable or insertable medical devices.



Probable Assignee: BOSTON SCIENTIFIC SCIMED INC

Earliest Publication Date: 20031225

23) Family number: 49809389 (WO11131777A1)

CODED CARTRIDGE ASSEMBLY, DOSE SETTING MECHANISM, DRUG DELIVERY SYSTEM AND CODED DRUG RESERVOIR

Abstract: A cartridge assembly for use with a drug delivery device. The cartridge assembly (200) is configured to attach to a drug delivery device and comprises a coding feature (212, 214, 216, 218, 220) disposed along a portion of the cartridge assembly. The coding feature is configured to pass through a corresponding coding feature (226, 228, 230, 232) provided by the drug delivery device. The cartridge assembly may comprise a cartridge and a cartridge holder. Alternatively, the cartridge assembly may comprise a molded cartridge.

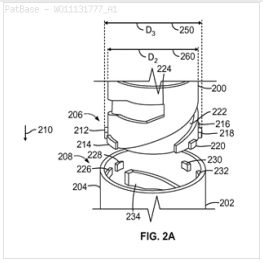


FIG. 2A

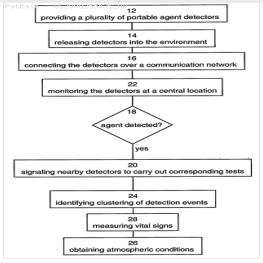
Probable Assignee: SANOFI AVENTIS DEUTSCHLAND

Earliest Publication Date: 20111027

24) Family number: 32608826 (US2008255431A)

EARLY DETECTION AND WARNING OF HARMFUL AGENTS

Abstract: Source: US2008255431A A method of detecting the presence of harmful agents in the environment is disclosed. The method comprises: providing a plurality of portable agent detectors, placing the detectors on vectors in the environment, connecting the detectors over a communication network, and, upon detection of an agent by a first detector, signaling detectors identified as being nearby to carry out corresponding agent detection tests, thereby to confirm or localize an initial agent detection.

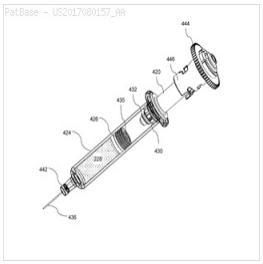


Probable Assignee: YISSUM RESEARCH DEVELOPMENT CO OF HEBREW UNIV OF JERUSALEM

Earliest Publication Date: 20060209

25) Family number: 65261118 (US2017080157A)

ROTATION RESISTANT FRICTION ADAPTER FOR PLUNGER DRIVER OF DRUG DELIVERY DEVICE



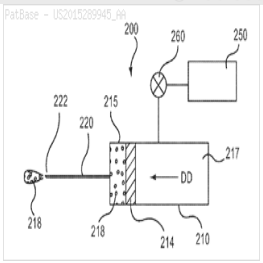
Abstract: Source: US2017080157A A method and system are disclosed for driving a plunger in a drug reservoir. In some embodiments, a variable friction element interconnects between a pushing shaft and a wall of the reservoir. For example, rotation of a driving element in a first direction relative to the pushing shaft may advance the pushing shaft in the reservoir. The friction element may have increased friction resistance to rotation of the pushing shaft in the first direction in comparison to frictional resistance to advancing the pushing shaft. For example, the increased friction may result from wedging a radial element between the pushing shaft and the wall of the reservoir.

Probable Assignee: MEDIMOP MEDICAL PROJECTS LTD

Earliest Publication Date: 20170323

26) Family number: 56779337 (US2015289945A)

COMPUTER AIDED IMPLANTATION OF BODY IMPLANTS



Abstract: Source: US2015289945A Systems and methods are disclosed for cosmetic injection. The apparatus includes a processor; a 3D imaging system coupled to the processor; and an injector controlled by the processor to inject filler into a patient.

Probable Assignee: MIBA MEDICAL INC

Earliest Publication Date: 20140626

27) Family number: 64829078 (US10022475B)

BODY AUGMENTATION DEVICE

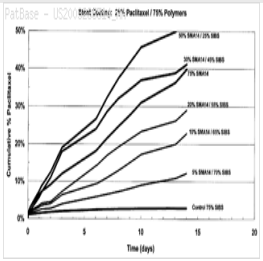
Abstract: Source: US10022475B Systems and methods are disclosed for body augmentation by mixing hyaluronic acid (HA) with polyvinyl alcohol (PVA) to form an HA-PVA hydrogel; and exposing the HA-PVA hydrogel to one or more freeze-thaw cycles or to an amount of radiation effective to crosslink the HA to the PVA to crosslink the HA to the PVA.

Probable Assignee: MIBA MEDICAL INC

Earliest Publication Date: 20170207

28) Family number: 30123278 (US2003236514A)

IMPLANTABLE OR INSERTABLE MEDICAL DEVICES FOR CONTROLLED DELIVERY OF A THERAPEUTIC AGENT



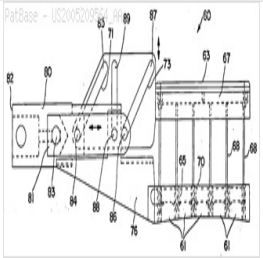
Abstract: Source: US2003236514A The present invention is directed to novel implantable or insertable medical devices that provide controlled release of a therapeutic agent. According to an embodiment of the present invention, a therapeutic-agent-releasing medical device is provided, which comprises: (a) an implantable or insertable medical device; (b) a release layer disposed over at least a portion of the implantable or insertable medical device; and (c) a therapeutic agent. The release layer comprises a maleic anhydride polymer selected from (i) a maleic anhydride copolymer and (ii) a maleic anhydride graft polymer. The release layer regulates the rate of release of the therapeutic agent from the medical device upon implantation or insertion of the device into a patient. The present invention is also directed to methods of forming the above implantable or insertable medical devices, methods of administering a therapeutic agent to a patient using such devices, and methods of modulating the release of therapeutic agent from such devices.

Probable Assignee: BOSTON SCIENTIFIC SCIMED INC

Earliest Publication Date: 20031225

29) Family number: 46663713 (US2005209564A)

DEVICES AND METHODS FOR INTERSTITIAL INJECTION OF BIOLOGIC AGENTS INTO TISSUE



Abstract: Source: US2005209564A Apparatus and methods for injecting biological agents into tissue. Devices are provided having elongate shafts and distal injection heads for driving needles into tissue and **injecting** **medical** agents into the tissue through the needles. A longitudinal force directed along the shaft can be translated to a needle driving force. Some devices provide controllably variable needle penetration depth. Devices include mechanical needle drivers utilizing four link pantographs, rack and pinions, and drive yokes for driving a first needle bearing body toward a second tissue contacting body. Other devices include inflatable members for driving and retracting needles. Still other devices include magnets for biasing the needles in extended and/or retracted positions. The invention includes minimally invasive methods for epicardially injecting cardiocyte precursor cells into infarct myocardial tissue.

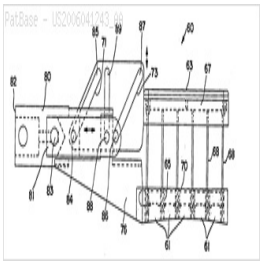
Probable Assignee: MEDTRONIC INC

Earliest Publication Date: 20050922

30) Family number: 46663719 (US2006041243A)

DEVICES AND METHODS FOR INTERSTITIAL INJECTION OF BIOLOGIC AGENTS INTO TISSUE

Abstract: Source: US2006041243A The current invention discloses a method for treating infracted/ischemic injury to a myocardium by injecting a substance into the myocardium. The injected substance helps to prevent negative adaptive remodeling by providing mechanical reinforcement or mechanical reinforcement combined with biological therapy. A number of substances for injection are disclosed, including multi component substances such as platelet gel, and other substances. The substances disclosed may contain additives to augment/enhance the desired effects of the injection. The invention also discloses devices used to inject the substances. The devices can include means for ensuring needles do not penetrate beyond a desired depth into the myocardium. The devices can also include needles having multiple lumens such that the components of the platelet gel will be combined at the injection site and begin polymerization in the myocardium.



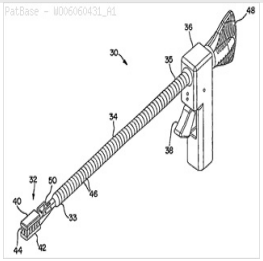
Probable Assignee: MEDTRONIC INC

Earliest Publication Date: 20060223

31) Family number: 46663699 (WO06060431A1)

DEVICES AND METHODS FOR INTERSTITIAL INJECTION OF BIOLOGIC AGENTS INTO TISSUE

Abstract: Apparatus and methods for injecting biological agents into tissue. Devices are provided having elongate shafts and distal injection heads for driving needles into tissue and **injecting** **medical** agents into the tissue through the needles. A longitudinal force directed along the shaft can be translated to a needle driving force. Some devices provide controllably variable needle penetration depth. Devices include mechanical needle drivers utilizing four link pantographs, rack and pinions, and drive yokes for driving a first needle bearing body toward a second tissue contacting body. Other devices include inflatable members for driving and retracting needles. Still other devices include magnets for biasing the needles in extended and/or retracted positions. The invention includes minimally invasive methods for epicardially injecting cardiocyte precursor cells into infarct myocardial tissue.



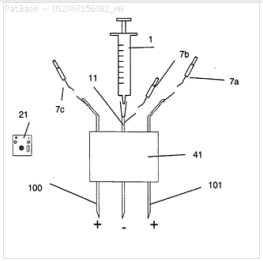
Probable Assignee: MEDTRONIC INC

Earliest Publication Date: 20060608

32) Family number: 32566948 (US2007156082A)

DEVICE FOR TRANSFERRING MOLECULES TO CELLS USING AN ELECTRIC FORCE

Abstract: Source: US2007156082A The invention concerns a device and a method for optimal delivery of an active principle (36) into a human or animal tissue for chemotherapy or gene therapy, using an electric field or current. The device consists of electrodes connected to an electric current generator, providing better efficiency, reproducibility and safety which are achieved through the use of adapted electrode devices and use of optimal current intensity.



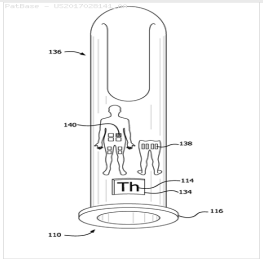
Probable Assignee: SPHERGEN

Earliest Publication Date: 20051230

33) Family number: 59461154 (US2017028141A)

SYSTEMS, APPARATUSES AND METHODS TO ENCOURAGE INJECTION SITE ROTATION AND PREVENT LIPODYSTROPHY FROM REPEATED INJECTIONS TO A BODY AREA

Abstract: Source: US2017028141A Systems and methods encourage users to rotate injection sites and avoid lipodystrophy. Sleeves and/or lost-tooth gear dials and/or microswitches in or on injection pens or their caps, on vials, and on other portable devices manually adjust an indicator before or after an injection to show a current or next injection site in accordance with a site rotation plan. Injected medicine packaging and related printed indicia encourage site rotation. Optical devices employing optical mouse or projection technology help locate and/or distribute injection sites within a body area. A mobile phone app tracks injections and locations to select next injection site, and can use imaging to locate a target injection site and optionally diagnose lipodystrophic conditions and record them. Tactile and print media educational tools are presented to help users palpate and identify lipos in body areas having injection sites.



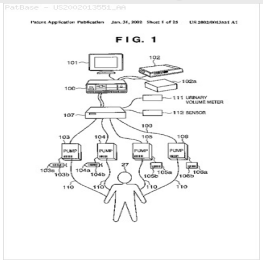
Probable Assignee: BECTON DICKINSON AND CO

Earliest Publication Date: 20150611

34) Family number: 28156923 (US2002013551A)

MEDICAL PUMP MONITORING SYSTEM

Abstract: Source: US2002013551A A medical pump monitor system in which an infusion circuitry creation unit setting/changing the connection conditions of infusion lines from a plurality of medical pumps, and administration passes and/or administration positions for a patient is provided, and it is made possible to display infusion circuitry data created in the infusion circuitry creation unit on a monitor screen by operations by an operator of the medical pump monitor system. And, a real-time monitoring system performing real time communication with external apparatuses including one or more medical apparatuses, and controlling the external apparatuses and/or displaying the conditions of the external apparatuses, including a communication unit communicating with external apparatuses, a display unit displaying the conditions of the external apparatuses, storing unit storing one or more past communication data obtained by the communication unit, a comparison unit comparing currently communicated data with past data, and a control unit controlling contents to be displayed on the display unit based on signals from the comparison unit, in which the comparison unit reduces the amount of the data for the amount of signals to be sent to the control unit, in the case where the past data and the current data are identical to each other in comparison with the case where the past data and the current data are different from each other.



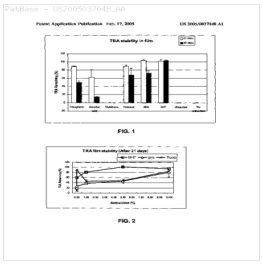
Probable Assignee: TERUMO KK

Earliest Publication Date: 20011128

35) Family number: 31575034 (US2005037048A)

MEDICAL DEVICES CONTAINING ANTIOXIDANT AND THERAPEUTIC AGENT

Abstract: Source: US2005037048A An medical device which comprises (a) a medical device substrate and (b) a therapeutic-agent-containing region over the substrate that comprises a therapeutic agent and an antioxidant. Exemplary medical devices are implantable or insertable medical devices, such as catheters, guide wires, balloons, filters, stents, stent grafts, vascular grafts, vascular patches and shunts. Also described are methods of making devices such as those above, which methods comprise: (a) providing a solution comprising (i) solvent, (ii) the therapeutic agent, and (iii) the antioxidant; (b) providing the medical device substrate; (c) contacting the solution with the medical device substrate; and (d) removing the solvent from the solution to form the therapeutic-agent-containing region.

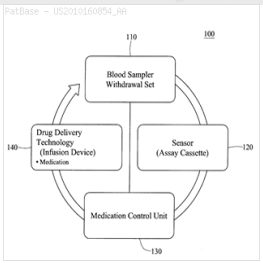


Probable Assignee: BOSTON SCIENTIFIC SCIMED INC

Earliest Publication Date: 20050217

36) Family number: 45554997 (US2010160854A)

INTEGRATED PATIENT MANAGEMENT AND CONTROL SYSTEM FOR MEDICATION DELIVERY



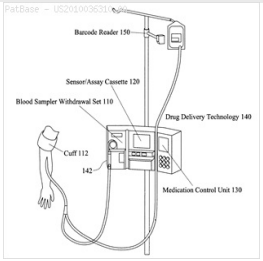
Abstract: Source: US2010160854A An integrated patient monitoring and control system is provided which includes a SITS, the SITS being adapted for coupling to the patient to obtain a specimen from the patient, a sensor, the sensor being adapted to receive the specimen from the SITS and to analyze the sample, a medication control unit, the medication control unit receiving information from the sensor, and utilizing that information to determine medication dosing information for the patient, and a medication administration system, the medication administration system receiving the dosing information from the medication control unit, and adapted to cause administration of the medication to the patient. If the SITS is adapted for blood draw, the system advantageously is performed in conjunction with a pneumatic pressure cuff, inflated so as to aid in blood draw.

Probable Assignee: AUTOMEDICS MEDICAL SYSTEMS INC

Earliest Publication Date: 20100624

37) Family number: 44340028 (US2010036310A)

INTEGRATED PATIENT MANAGEMENT AND CONTROL SYSTEM FOR MEDICATION DELIVERY



Abstract: Source: US2010036310A An integrated patient monitoring and control system is provided which includes a sample set, the sample set being adapted for coupling to the patient to obtain a specimen from the patient, a sensor, the sensor being adapted to receive the specimen from the sample set and to analyze the sample, a medication control unit, the medication control unit receiving information from the sensor, and utilizing that information to determine medication dosing information for the patient, and a medication administration system, the medication administration system receiving the dosing information from the medication control unit, and adapted to cause administration of the medication to the patient. If the sample set is adapted for blood draw, the system advantageously is performed in conjunction with a pneumatic pressure cuff, inflated so as to aid in blood draw.

Probable Assignee: AUTOMEDICS MEDICAL SYSTEMS INC

Earliest Publication Date: 20100211

38) Family number: 31060070 (US2004202691A)

IMPLANTABLE OR INSERTABLE MEDICAL DEVICES CONTAINING RADIATION-CROSSLINKED POLYMER FOR CONTROLLED DELIVERY OF A THERAPEUTIC AGENT

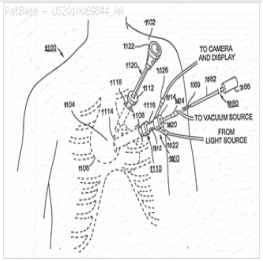
Abstract: Source: US2004202691A An implantable or insertable medical device which comprises (a) a therapeutic agent and (b) a polymeric release region that controls the release of the therapeutic agent upon administration to a patient. The polymeric release region comprises a radiation-crosslinked polymer, and the polymeric release region is crosslinked with a radiation dose of at least 10,000 rads. The radiation-crosslinked polymer can be, for example, a radiation-crosslinked methylene-containing polymer. The polymeric release region can be, for example, (a) a carrier region that comprises the therapeutic agent or (b) a barrier region that is disposed over a therapeutic-agent-containing region that comprises the therapeutic agent. The present invention is further directed to methods of forming such medical devices, methods of releasing a therapeutic agent within a patient using such medical devices, and methods of modulating the release of a therapeutic agent from such medical devices.

Probable Assignee: BOSTON SCIENTIFIC SCIMED INC

Earliest Publication Date: 20041014

39) Family number: 46663736 (US2010069844A)

DEVICES AND METHODS FOR INTERSTITIAL INJECTION OF BIOLOGIC AGENTS INTO TISSUE



Abstract: Source: US2010069844A Apparatus and methods for injecting biological agents into tissue. Devices are provided having elongate shafts and distal injection heads for driving needles into tissue and **injecting** **medical** agents into the tissue through the needles. A longitudinal force directed along the shaft can be translated to a needle driving force. Some devices provide controllably variable needle penetration depth. Devices include mechanical needle drivers utilizing four link pantographs, rack and pinions, and drive yokes for driving a first needle bearing body toward a second tissue contacting body. Other devices include inflatable members for driving and retracting needles. Still other devices include magnets for biasing the needles in extended and/or retracted positions. The invention includes minimally invasive methods for epicardially injecting cardiocyte precursor cells into infarct myocardial tissue.

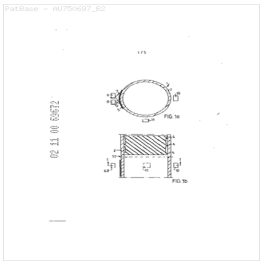
Probable Assignee: BONNER MATTHEW D

Earliest Publication Date: 20100318

40) Family number: 11947678 (AU750697B)

DELIVERY DEVICE AND METHOD FOR ITS OPERATION

Abstract: Source: AU750697B A system of marked medical containers having a) at least two containers having different properties in at least one respect and b) at least one machine readable marking difference on each of said containers, the marking being designed to allow discrimination between said differences in properties, wherein the marking provides said difference by having at least one area with different sorbance or reflectance when irradiated with radiation in non-visible frequency ranges. oss

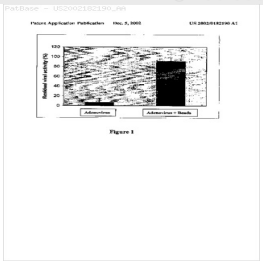


Probable Assignee: PHARMACIA AND UPJOHN AB

Earliest Publication Date: 20010301

41) Family number: 28313490 (US2002182190A)

MICROPARTICLE PROTECTION OF THERAPEUTIC AGENTS



Abstract: Source: US2002182190A The present invention is directed to the use of microparticles to protect the pharmaceutical effectiveness of a pharmaceutically active agent. According to one embodiment, a pharmaceutically acceptable suspension is provided that comprises microparticles and a pharmaceutically active agent. This pharmaceutically acceptable suspension is then exposed to a component or condition that is incompatible with the pharmaceutically active agent, such that the microparticles provide a pharmaceutical effectiveness that is greater than it would have been in the absence of the microparticles. Preferably, the microparticles result in a pharmaceutical effectiveness of the pharmaceutically active agent that is at least 10 percent greater than the pharmaceutical effectiveness of the pharmaceutically active agent would have been in the absence of the microparticles. Polymer microparticles, such as polystyrene microparticles, are one preferred class of microparticles. The microparticles preferably range from 0.01 to 100 microns in largest dimension, more preferably 0.1 to 10 microns in largest dimension. The microparticles are preferably provided in an amount of 0.1 to 1 wt percent within the suspension. Agents comprising polynucleotides, including cells, plasmids and viral vectors, are a preferred class of pharmaceutically active agent. Other embodiments on the invention are directed to pharmaceutically acceptable suspensions, medical devices for parenteral injection, and methods of treatment.

Probable Assignee: BOSTON SCIENTIFIC SCIMED INC

Earliest Publication Date: 20021107