

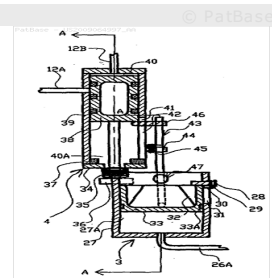
1) Family number: 32857558 (US2009064997A)

INHALER

Abstract: Source: US2009064997A The invention provides an inhaler for dispensing medicament. The inhaler comprises auxiliary energy provision means for providing auxiliary energy for aerosolising medicament; energy release means for releasing auxiliary energy from the auxiliary energy provision means; feed means for feeding a dose of medicament, characterised in that the inhaler comprises control means for controlling a time interval between aerosolisation of the medicament and a user's inhalation. The inhaler is operable, in use, to aerosolise medicament using the auxiliary energy, and harness the user's inhalation to deliver the aerosolised medicament to the user.

Probable Assignee: LI JIANHE

Earliest Publication Date: 20070620



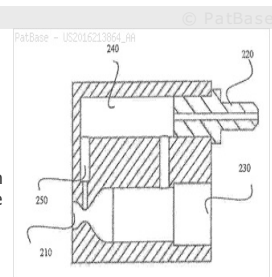
2) Family number: 58241205 (US2016213864A)

METERED DOSE INHALER AND METHODS THEREOF

Abstract: Source: US2016213864A A process and a metered dose inhaler, comprising: an air actuator comprising at least one inlet of liquefied gas (LG), at least one air outlet, at least one first LG-expanding volume and at least one second air-containing volume, the first and second volumes are effectively separated by means of a LG-blocking member; a container with an LG source; said container is in a fluid connection with said LG-expanding volume via the at least one LG inlet; The air actuator is facilitating a metered dose airflow by allowing the expansion of said LG in said at least one LG-expanding volume from its condensed liquid phase to its expanded gas phase. The expansion of said LG facilitates the compression of the air within said at least one air-containing volume, such that a metered dose LG-free air flow is inhalable via at least one air outlet.

Probable Assignee: MEWAY PHARMA LTD

Earliest Publication Date: 20150108



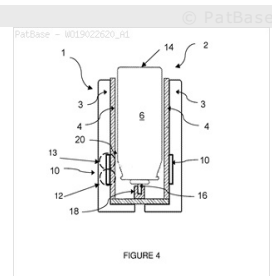
3) Family number: 73047105 (WO19022620A1)

ADHERENCE MONITORING METHOD AND DEVICE

Abstract: In one aspect the invention provides an adherence monitoring device for a medication delivery device, the monitoring device including at least one inductive coil sensor which includes at least one inductive controller, at least two inductive coils including a first inductive coil coupled to the housing and a second inductive coil coupled to the housing. The first inductive coil is configured to exhibit a response to an inductive change and provide a first change signal in response to an inductive change, and the second inductive coil is configured to exhibit a response to the inductive change and provide a second change signal in response to the inductive change. The monitoring device also includes a processor configured to receive sensor data from the inductive controller representative of the first and second change signals provided by the first inductive coil and second inductive coil and to compare at least one characteristic of the first change signal and the second change signal to detect the occurrence of a medication usage event or a false triggering event.

Probable Assignee: ADHERIUM NZ LTD

Earliest Publication Date: 20190131



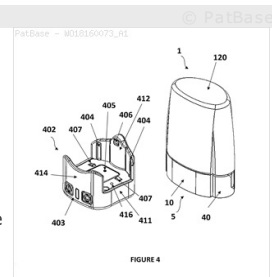
4) Family number: 71077800 (WO18160073A1)

ADHERENCE MONITOR FOR A MEDICAMENT INHALER

Abstract: This invention relates to an adherence monitor for a medicament inhaler, wherein the medicament inhaler is of the type which includes a body comprising a recess for holding a capsule containing a powdered medicament; at least one button coupled to at least one perforation element for piercing the capsule loaded in the recess; a mouthpiece for operatively inhaling the medicament; and a cap configured to cover the mouthpiece. The adherence monitor includes a housing configured to attach to the inhaler and at least one sensor(s) configured to detect one or more of the following events: attachment of the adherence monitor to the inhaler; compression or release of the at least one button; and a signal indicative of an inhalation. The invention may be particularly suitable for giving patients and/or healthcare professionals the ability to monitor medication adherence.

Probable Assignee: ADHERIUM NZ LTD

Earliest Publication Date: 20180907



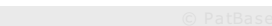
5) Family number: 43350939 (US2009143390A)

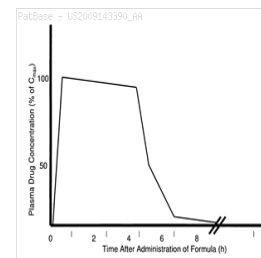
PARENTERAL FORMULATIONS OF DOPAMINE AGONISTS

Abstract: Source: US2009143390A This invention relates to stable pharmaceutical compositions for parenteral administration comprising dopamine agonists and peripheral acting agents_useful for treatment of metabolic disorders or key elements thereof. The parenteral dosage forms exhibit long stable shelf life and distinct pharmacokinetics.

Probable Assignee: VEROSCIENCE LLC

Earliest Publication Date: 20090604





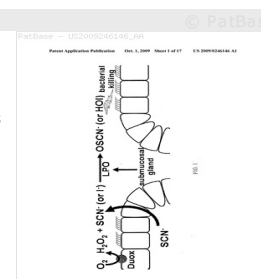
6) Family number: 43784849 (US2009246146A)

HALIDES IN THE TREATMENT OF PATHOGENIC INFECTION

Abstract: Source: US2009246146A The present invention relates to the use of halides and halide salts for the treatment of microbial infections, including those caused by bacteria, fungi and viruses. The present invention takes advantage of endogenous immune function and augments this system using a non-toxic and inexpensive reagent that can be delivered to mucosal surfaces, for example, orally, topically, ophthalmically and via inhalation.

Probable Assignee: OF IOWA RESEARCH FOUNDATION UNIV

Earliest Publication Date: 20091001



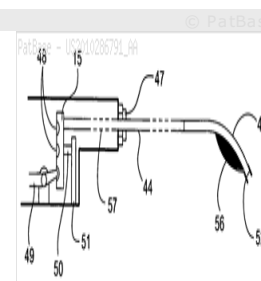
7) Family number: 47547452 (US2010286791A)

INTEGRATED SYSTEM FOR THE BALLISTIC AND NONBALLISTIC INFIXION AND RETRIEVAL OF IMPLANTS

Abstract: Source: US2010286791A Provided are methods and apparatus for the use of magnetic traction to maintain the patency of a tubular anatomical structure, whether a vessel, duct, the trachea, bronchus, bile duct, ureter, vas deferens, fallopian tube, or portions of the digestive tract, as to constitute means for extraluminal stenting. An extraluminal stent consists of a perimedial or medial intravascular and an extravascular component. The intravascular component consists of ferromagnetic spherules implanted aeroballistically or stays implanted by means of a special hand tool, while the extravascular component consists of a pliant jacket or mantle that has magnets mounted about its outer surface. A catheter adapted for use as the barrel of a gas-operated implant insertion gun is so devised that it can be used independently to perform an angioplasty and thereafter have its free or extracorporeal end inserted into the airgun to initiate implantation of the intravascular component without the need for withdrawal and reinsertion through the introducer sheath. When the implants must be spaced too closely together to be controlled by hand, a positional control system is used to effect discharge automatically. Spherules that consist entirely of medication or that have a radiation emitting seed as the core can be implanted with the same apparatus. A glossary of terms follows the specification.

Probable Assignee: GOLDSMITH DAVID S

Earliest Publication Date: 20101111



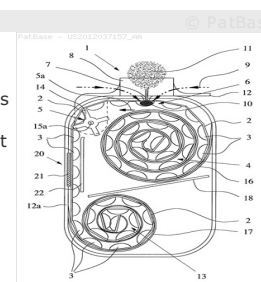
8) Family number: 45519404 (US2012037157A)

INHALER

Abstract: Source: US2012037157A An inhaler (1) including a blister strip (2) is proposed. The unused blister strip is stored in a spiral (16). After use, the blister strip is conveyed into another spiral (17). Both spirals share a common space within the inhaler and may be separated by a loose guiding element (18). The spirals and the guiding element may comprise protrusions (19) to reduce sliding friction. Additionally or alternatively, a lubricant (31) may be used to reduce friction.

Probable Assignee: BOEHRINGER INGELHEIM INT GMBH

Earliest Publication Date: 20100623



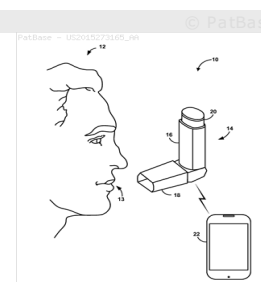
9) Family number: 56393001 (US2015273165A)

SYSTEMS AND METHODS FOR ADMINISTERING PULMONARY MEDICATIONS

Abstract: Source: US2015273165A Example techniques and systems include detecting patient inhalation with a pulmonary medication dosing device and controlling a valve to release medication based on the detection. For example, a method includes generating a signal indicative of air flow within a portion of a pulmonary medication dosing device, receiving, by a processor, a command based on the signal and associated with a valve configured to at least partially control release of medication via the pulmonary medication dosing device, and controlling, by the processor and based on the received command, the valve to release at least a portion of a dose of the medication into the air flow. In some examples, a mobile computing device may be configured to generate and transmit the command to the pulmonary medication dosing device for controlling the valve.

Probable Assignee: SOUTH OSTRICH LTD

Earliest Publication Date: 20140508



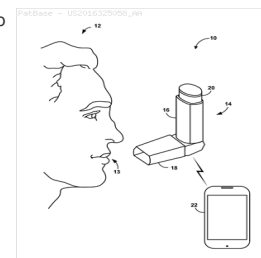
10) Family number: 59899694 (US2016325058A)

SYSTEMS AND METHODS FOR MANAGING PULMONARY MEDICATION DELIVERY

Abstract: Source: US2016325058A Example techniques and systems include managing delivery of a substance into an inhaled stream of air from a patient. For example, a system may include a housing configured to accept a medication canister containing a medication, the housing comprising a dispensing portion, a sensor configured to sense air flow within the dispensing portion, and a processor configured to transmit a signal indicative of the sensed air flow, wherein information associated with use of the pulmonary medication dosing device is generated by the computing device and based on the transmitted signal.

Probable Assignee: FOCUSSTART RESPIRATORY LLC

Earliest Publication Date: 20150723



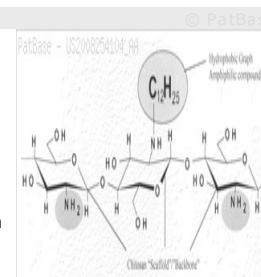
11) Family number: 42385942 (US2008254104A)

ADVANCED FUNCTIONAL BIOCOMPATIBLE POLYMERIC MATRIX CONTAINING NANO-COMPARTMENTS

Abstract: Source: US2008254104A The present invention provides a novel biomaterial which is a hybrid, self-assembling biopolymeric networked film that is functionalized through hydrophobic interactions with vesicles loaded with bioactive agents. The biomaterial compound is a polymeric network of hydrophobically modified chitosan scaffolds that is taken from solution and formed as a solid film. This solid state film is capable of hydrophobic interactions with the functionalized vesicles. The vesicles include one or more lamellar structures forming one or more nano-compartments that are capable of containing similar or alternative active moieties within. Use of the film results in a degradation of the chitosan scaffold thereby releasing the active moieties within the vesicles from the scaffold. Application of the current invention occurs through various delivery mechanisms and routes of administration as will be described herein.

Probable Assignee: OF MARYLAND COLLEGE PARK UNIV

Earliest Publication Date: 20081016



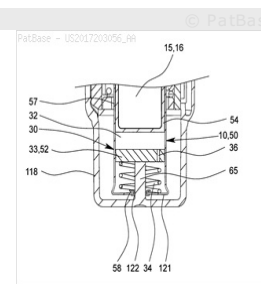
12) Family number: 57553384 (US2017203056A)

DRUG DELIVERY DEVICE

Abstract: Source: US2017203056A A drug delivery device (100), in particular a nebulizer or inhaler, is proposed, wherein a collapsible container (16) is combined with a mechanism (30) to help the collapsing process and to prevent the collapsed container expanding again, hence preventing forming of vapor and gas bubbles within.

Probable Assignee: BOEHRINGER INGELHEIM INT GMBH

Earliest Publication Date: 20160128



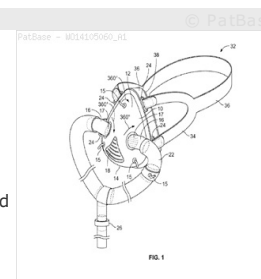
13) Family number: 56830119 (WO14105060A1)

NASAL RESPIRATORY ASSEMBLY AND METHODS OF USE

Abstract: The present invention is a nasal respiratory assembly and methods of using the same wherein the assembly comprises a mask, a ventilator hose and a strap. The mask has a top surface, a base, an exhaust port having a one-way valve and two rotatable intake ports. The hose has a first end and a second end adapted to be received by the first and second intake ports, and at least a third end to connect to the ventilator. The hose and/or the mask further contain a rotatable medication delivery port to allow treatment delivery in close proximity to the patient.; The rotatable intake ports are located on either side of the mask so that the pressurized air is not delivered directly into the patient's nasal cavities.

Probable Assignee: ALPHONSE SANDRA

Earliest Publication Date: 20140703



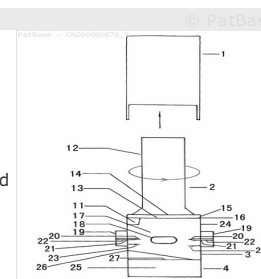
14) Family number: 41137201 (CN200980876Y)

POWDER MIST INHALER

Abstract: Source: CN200980876Y The utility model discloses a powder cloud inhalator which is respectively provided with a paracentesis needle and an air flow booster at the two ends, belonging to encapsulated inhalation powder cloud administration devices. The utility model comprises a case cover, a mouth sucking device, an undercarriage and an air flow booster, wherein the two needles are respectively fixed in the key buttons arranged at the two sides of the undercarriage, a cyst cavity and an air flow little hole compose the air flow booster connected with the undercarriage, and the cyst cavity is made of an elastic flexible material. The utility model has the advantages of simple structure, more safe, easy and convenient use, and the medicine power can be sucked and delivered to the lung through the mouth and throat by slight air-breathing, thereby significantly increasing the emptying rate and the effective position medicinal deposit rate. The utility model is particularly suitable to be used for children, the elderly and difficult breathing patients.

Probable Assignee: NANCHANG HONGYI TECHNOLOGY CO

Earliest Publication Date: 20071128



15) Family number: 64368208 (US2016361510A)

NASAL RESPIRATORY ASSEMBLY AND METHODS OF USE

Abstract: Source: US2016361510A The present invention is a nasal respiratory assembly and methods of using the same wherein the assembly comprises a mask, a ventilator hose and a strap. The mask has a top surface, a base, an exhaust port having a one-way valve and two rotatable intake ports. The hose has a first end and a second end adapted to be received by the first and second intake ports and at least a third end to connect to the ventilator. The hose and/or the mask further contain a rotatable medication delivery port to allow treatment delivery in close proximity to the patient. The rotatable intake ports are located on either side of the mask so that the pressurised air is not delivered directly into the patient's nasal cavities.

Probable Assignee: ALPHONSE SANDRA

Earliest Publication Date: 20161215

