

15 Documents

Publication numbers	Title	Current assignees
EP1123118 A1	An apparatus and method for sterilizing an instrument at substantially room temperature	SERMED INDUSTRIES
US20190322247 A1	Tire Inflating Device	HIBBARD KEVIN ALLEN
DE102010060258 A1	Filling system for sealing and inflating pneumatic tire of passenger car, has valve units and lines connected among compressed gas source, sealing agent container and tire , so that tire is filled with sealing agent and compressed gas	CONTINENTAL REIFEN DEUTSCHLAND
EP1372941 A1	Device for sealing and inflating an inflatable object	CONTINENTAL
EP3283337 A1	Device for inflating a tire	SPORT COMPONENTS
EP--78846 A4	Safe tire inflator	CROWELL
EP1358996 A1	Tyre repair system	ADAM OPEL
US5051068 A	Compressors for vehicle tires	WONG ALEX Y K, ...
EP3119595 A1	Device for sealing and inflating inflatable articles	CONTINENTAL REIFEN DEUTSCHLAND
EP1817180 A2	Tire pressure maintenance device	LOEWE RICHARD, ...
US20050191193 A1	Air compressor for tire inflating combination	CHOU WEN-SAN, ...
EP-838380 A1	Electronic air dispensing and pressure balancing system for tyres	FAST AIR
EP1377467 A1	Controlled pneumatic device for automatic inflating /deflating of a confinement capacity of a gas fluid under relative pressure	BEAU HENRI
KR20080098713 A	Pneumatic pressure injector of a tire type heavy impact source for measurement of floor impact sound cut off performance, using a separate air injection connector attached to the exterior of the heavy impact source	KOREA RESEARCH INSTITUTE OF STANDARDS & SCIENCE
EP3416817 A1	Improved apparatus for sealing and inflation of damaged inflatable articles, such as punctured tires	TRYDEL RESEARCH

Family 1/15 - FAMPAT - ©Questel

Title

(EP1123118)

An apparatus and method for sterilizing an instrument at substantially room temperature

Images

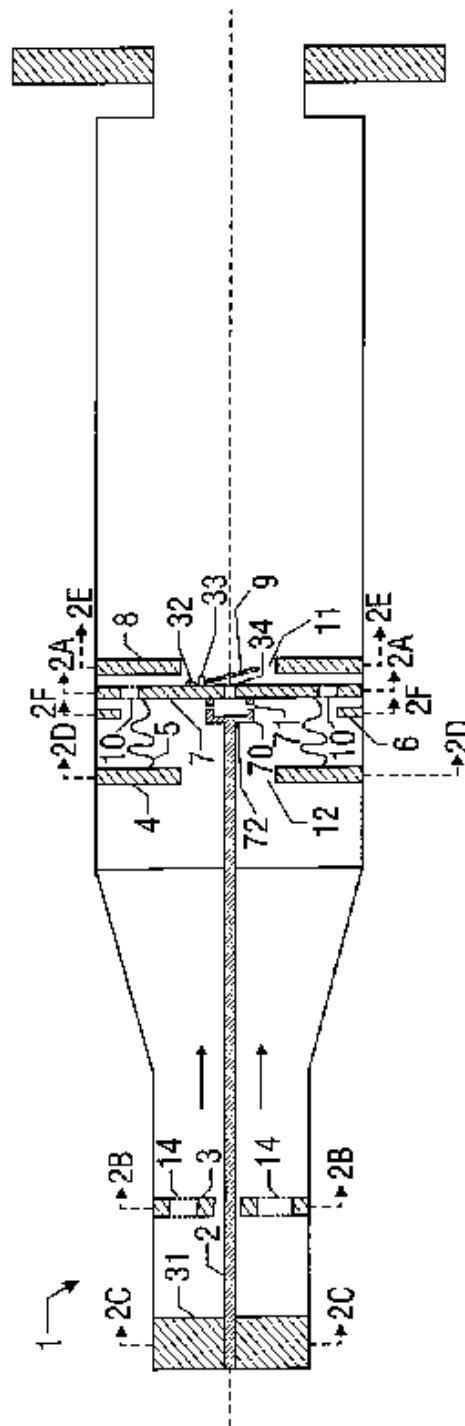


FIG. 1

Publication numbers with kind code & date

IN231954	B	2009-03-27	IN-231954
IN0328/DELNP/2001	A	2008-06-20	IN2001DN00328
MXPA01004017	A	2003-03-10	MXPA01004017
JP2002528688	A	2002-09-03	JP2002528688
US6379614	B1	2002-04-30	US6379614



TW477753	B	2002-03-01	TW-477753				
EP1171168	A1	2002-01-16	EP1171168				
EP1171168	A4	2002-01-16	EP1171168				
EP1123118	A4	2002-01-09	EP1123118				
US6302138	B1	2001-10-16	US6302138				
EP1137892	A1	2001-10-04	EP1137892				
EP1123118	A1	2001-08-16	EP1123118				
BR9915541	A	2001-08-14	BR9915541				
CO4991014	A1	2000-12-26	CO4991014A1				
US6142168	A	2000-11-07	US6142168				
PE20000829	A1	2000-08-26	PE082902000				
AU1450200	A	2000-05-15	AU200014502				
AU1319800	A	2000-05-08	AU200013198				
AU1320000	A	2000-05-08	AU200013200				
WO00/25051	A1	2000-05-04	WO200025051				
CA2347629	A1	2000-04-27	CA2347629				
CA2347959	A1	2000-04-27	CA2347959				
WO00/23118	A1	2000-04-27	WO200023118				
WO00/23335	A1	2000-04-27	WO200023335				

Abstract

(EP1123118)

An apparatus for sterilizing an instrument (12) having an exterior surface (32) at substantially room temperature includes a chamber (14) having an interior compartment (18) for receiving and housing the instrument (12). The interior compartment (18) is maintained at a predetermined compartment temperature while the instrument (12) is being sterilized. The chamber (14) is releasably engagable with a portion of the instrument (12) to support the instrument (12) within the interior compartment (18). A fluid injection mechanism (20) is in fluid communication with the chamber (14) for supplying fluid to the chamber (14) and for maintaining the fluid at a predetermined fluid temperature while the instrument (12) is being sterilized. The chamber (14) includes at least one fluid outlet (24) for directing a flow of fluid onto the exterior surface (32) of the instrument (12). The chamber (14) further includes at least another fluid outlet (24) to direct the flow of fluid onto the portion of the instrument (12) engaged by the chamber (14). A method of sterilizing an instrument at substantially room temperature using this apparatus is also disclosed.

Inventors

SERGIO ROBERT M

WOOD WINFIELD JR

SILDVE PETER O

Latest standardized assignees - inventors removed

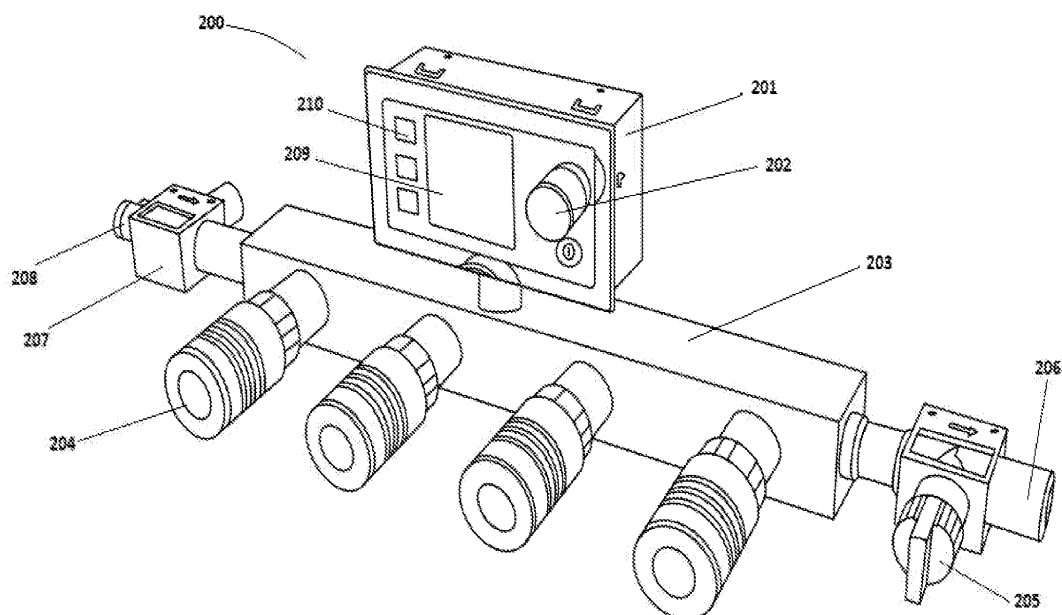
SERMED INDUSTRIES

Family 2/15 - FAMPAT - ©Questel

Title

(US20190322247)

Tire Inflating Device**Images**

**Publication numbers with kind code & date**

US20190322247 A1 2019-10-24 US20190322247

**Abstract**

(US20190322247)

The present invention is an apparatus for **tire** inflation designed to allow users to properly inflate, maintain, and monitor the condition of vehicle tires. The **tire** inflation device of present invention is comprising of: a carrying case having a housing, a lid attached to the housing using a **hinge**, a plurality of locking latches to lock the lid over the housing and a handle configured over the lid to allow easy transport of the **tire inflating** device. The **tire** inflation device further comprises, a control head assembly to control the working of the device, an air **compressor** coupled with the control head assembly to provide compressed air for inflation of tires, a hose assembly to connect the device with the vehicle tires and a plurality of power adapters to connect the device with the power source. The control head assembly of the inflation device is further comprising of, a program control module, an auto level manifold, a plurality of output modules, an air release **valve**, a pressure release **valve**, a plurality of buttons and switches, and a display unit.

Inventors

HIBBARD KEVIN ALLEN

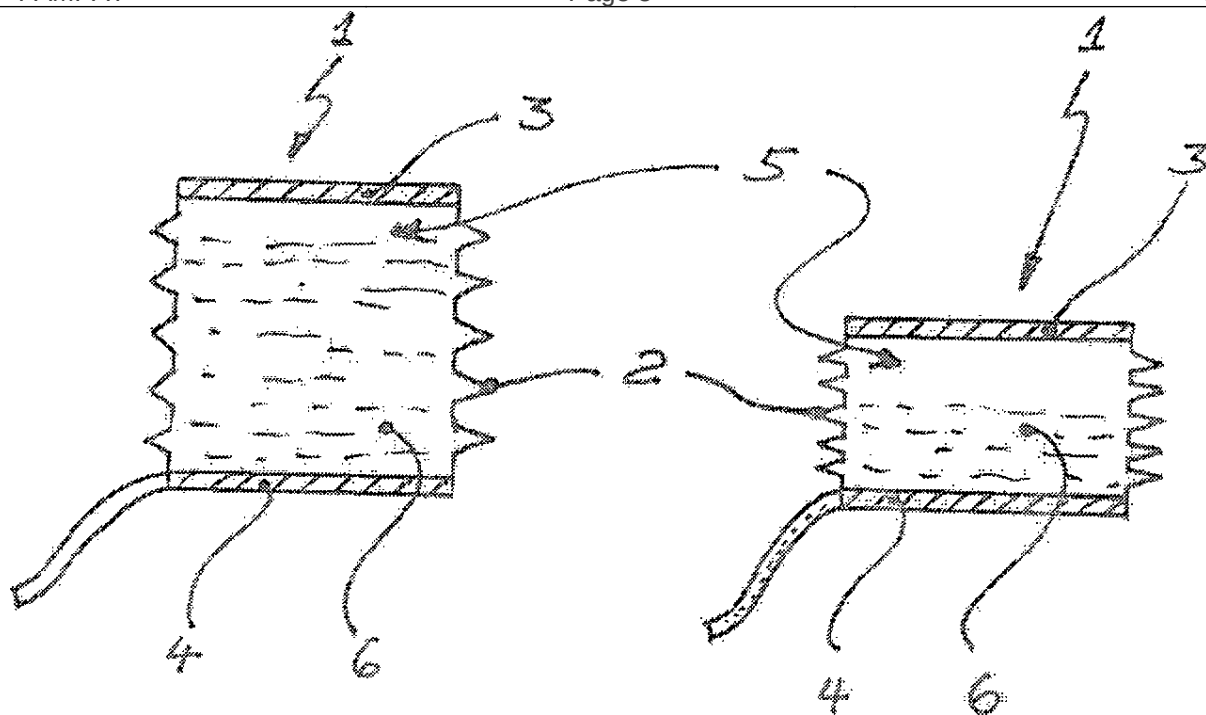
Family 3/15 - FAMPAT - ©Questel

Title

(DE102010060258)

Filling system for sealing and **inflating** pneumatic **tire** of passenger car, has **valve** units and lines connected among compressed gas source, sealing agent container and **tire**, so that **tire** is filled with sealing agent and compressed gas

Images

**Publication numbers with kind code & date**[DE102010060258](#)

A1 2012-05-03

DE102010060258

**Abstract**

(DE102010060258)

The system has a compressed gas source i.e. **compressor**, connected to a flat pneumatic **tire** (6), and a sealing agent container (1) for containing a sealing agent that is automatically recoverable in the **tire**. **Valve** units and lines are connected among the compressed gas source, the sealing agent container and the **tire**, so that the **tire** is filled with the sealing agent and compressed gas. The sealing agent container is designed as a foot operable container and provided with a flexible, pliable and/or foldable wall i.e. bellows (2), a bend-hard and inflexible lid (3) and bottom (4).

Inventors

HUANG DANQING

XU QIAO

Latest standardized assignees - inventors removed

CONTINENTAL REIFEN DEUTSCHLAND

Family 4/15 - FAMPAT - ©Questel

Title

(EP1372941)

Device for sealing and **inflating** an inflatable object**Images**

US20030056851	A1	2003-03-27	US20030056851				
DK200200246	U3	2003-02-28	DK200200246U				
CZ20022938	A3	2003-02-12	CZ200202938				
DE20211295	U1	2002-12-12	DE20211295				
WO02/66236	A8	2002-10-03	WO200266236				
NO20024025	L	2002-10-01	NO20024025				
CA2401648	A1	2002-08-29	CA2401648				
DK200200246	U1	2002-08-29	DK200200246U				
WO02/66236	A1	2002-08-29	WO200266236				
NO20024025	D0	2002-08-23	NO200204025				

Abstract

(EP1372941)

A device used for sealing and **inflating** an inflatable object (9), e.g. a tyre (9), provided with an inflater **valve** (11). The device (1) comprises a compressed gas source (2) and a container (3) with sealant (4). The device (1) further comprises a reversing **valve** (5) which is provided in a first position for opening up a first connection between the compressed gas source (3) and the inflater **valve** (11) of the object (9) and in a second position for opening up a second connection between the compressed gas source (2) and the container (3) and between said container and the inflater **valve** (11) of the object (9). In one mode of operation, the device can be used to inflate an object, which has lost air, to attain a prescribed pressure. In another mode of operation, the device can be used to seal and inflate an object which is no longer tight. As a result, it is no longer necessary for car drivers to transport a heavy and cumbersome spare wheel as is traditionally the case.

Inventors

ERIKSEN STEEN MANDSFELT

OLRIK HENRIK-GERNER

LODEMANN JOACHIM GEORG

Latest standardized assignees - inventors removed

CONTINENTAL

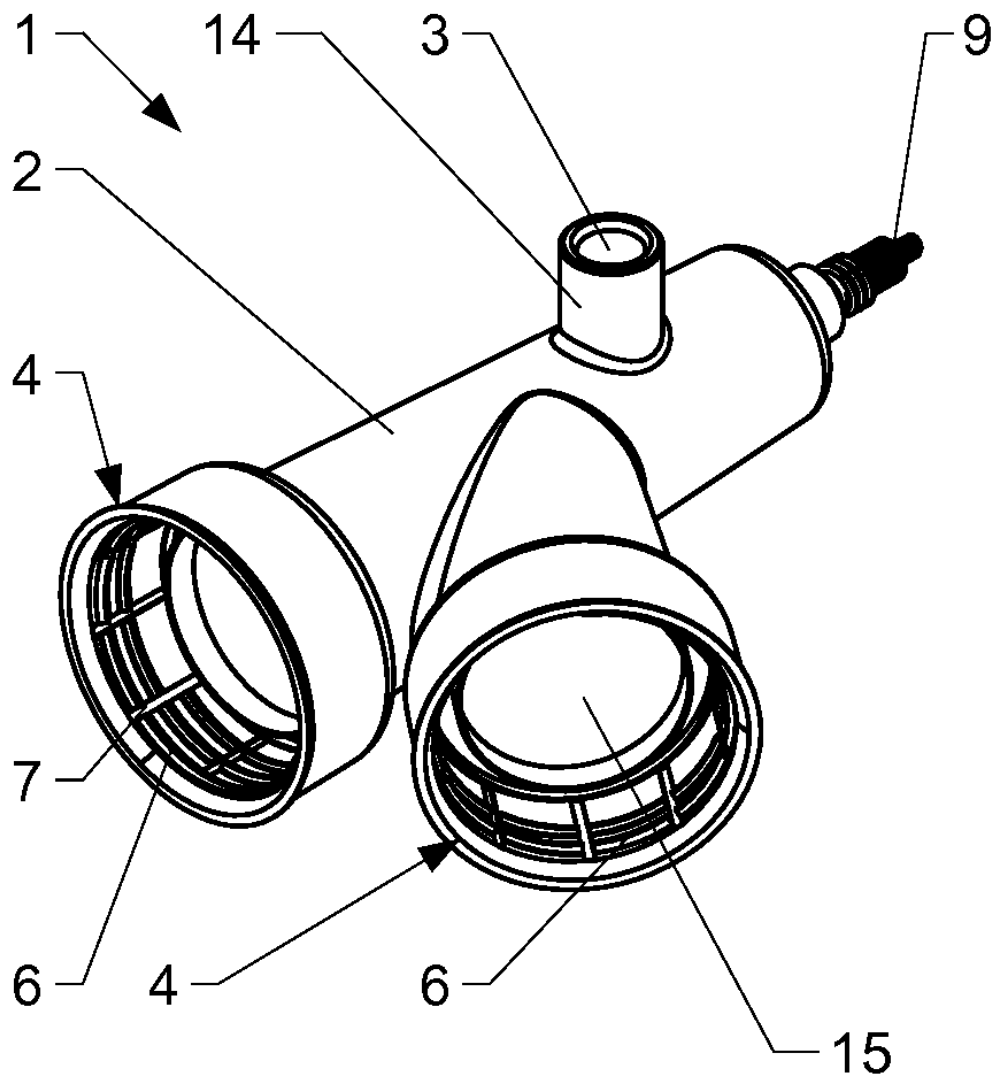
Family 5/15 - FAMPAT - ©Questel

Title

(EP3283337)

Device for **inflating** a **tire**

Images



Publication numbers with kind code & date

US20180126963	A1	2018-05-10	US20180126963
EP3283337	A1	2018-02-21	EP3283337
WO2016/166233	A1	2016-10-20	WO2016166233



Abstract

(EP3283337)

The invention is directed to a device (1) for **inflating** a **tire**. The device comprises a housing (2) which comprises at least one first connection port (3) and at least one second connection port (4, 4', 4''). The second connection port comprises connecting means (6) to interconnect the device (1) with a pressure tank (8, 8', 8''). The at least one first connection port (3) is fluidically connected to the at least one second connection port (4, 4', 4'') by means of a fluid passage (15). Furthermore the device (1) comprises a first **valve** (5). When a pressure tank (8, 8', 8'') is connected to the at least one second connection port (4, 4', 4'') and when the first **valve** (5) is in a closed state, the first **valve** (5) is suited to prevent air from flowing from inside of the pressure tank (8, 8', 8'') out of the at least one first connection port (4, 4', 4''). When the first **valve** (5) is in an open state, it is suited to allow passage of air from inside of the pressure tank (8, 8', 8'') through the fluid passage (15) to the at least one first connection port (3).

Inventors

KOBLER PIUS

EGGERT DOMINIK

SPINELLI NICO

LENZI ARNO

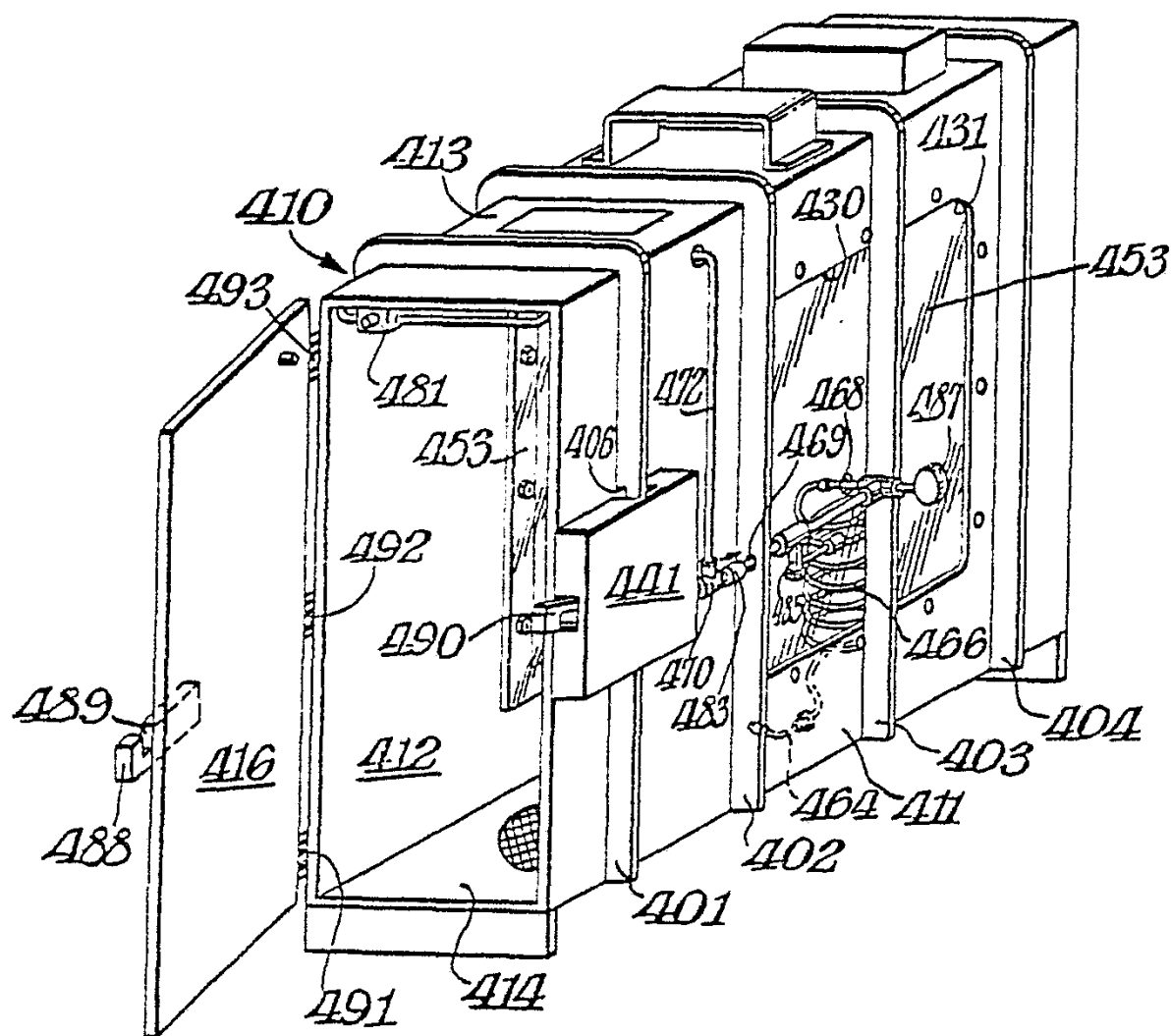
Latest standardized assignees - inventors removed

SPORT COMPONENTS

Family 6/15 - FAMPAT - ©Questel

Title

(EP--78846)

Safe **tire** inflator**Images****Publication numbers with kind code & date**

DE3279268	D1	1989-01-12	DE3279268
EP0078846	B1	1988-12-07	EP--78846
MX151844	A	1985-04-03	MX-151844
EP0078846	A1	1983-05-18	EP--78846
JPS58500707	A	1983-05-06	JP58500707
EP0078846	A4	1983-04-25	EP--78846
WO82/04024	A1	1982-11-25	WO8204024

**Abstract**

(EP0078846)

Vehicular tires, mounted on wheel rims, are more safely inflated in rugged box (10) enclosing entire **tire**-and-wheel rim

assembly, using **inflating** line (40) that penetrates through wall of box, with pressure gauge (42) visible from outside of box. Interlocks (60, 70) can be provided to help assure that box must be closed before inflation can be started, and that box cannot be opened for 3 to 10 minutes after inflation is completed. Window (230) can be provided for visually inspecting **tire**-and-wheel-rim assembly during or after inflation, and deflation **valve** (283) permits deflation if the inflation appears unsafe. Box can have welded-on re-enforcements (401-404).

Inventors

ADELMAN, ROBERT W.

BLEVINS, DANIEL W.

Latest standardized assignees - inventors removed

CROWELL

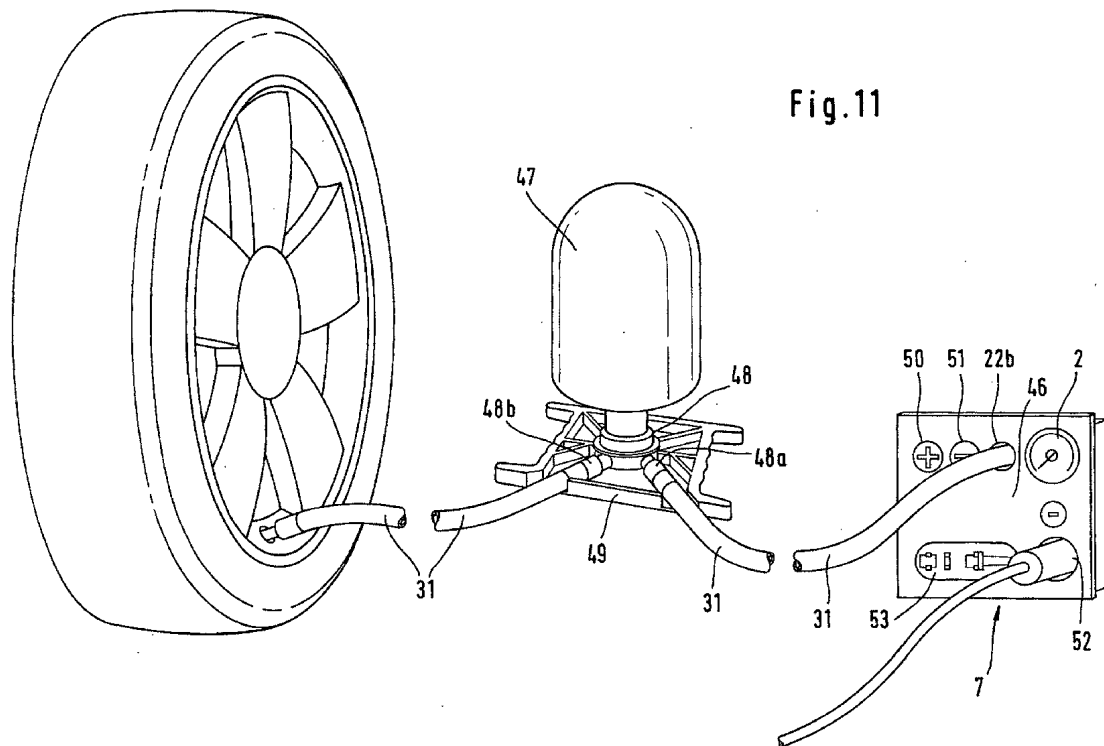
Family 7/15 - FAMPAT - ©Questel

Title

(EP1358996)

Tyre repair system

Images



Publication numbers with kind code & date

DE10219926	A1	2003-11-20	DE10219926
EP1358996	A1	2003-11-05	EP1358996
DE20213003	U1	2003-01-30	DE20213003



Abstract

(EP1358996)

A **tire** repair kit has a **compressor** behind openings (6) in a screen (8) in the boot lining with on/off switch (5), manometer (2), pressure release knob (3) and hose reel connector for a **compressor** to pump air and sealant into the **tire**.

Inventors

ZERJESKI FRANK DIPL-ING

BRUENJES AREND DIPL-ING

Latest standardized assignees - inventors removed

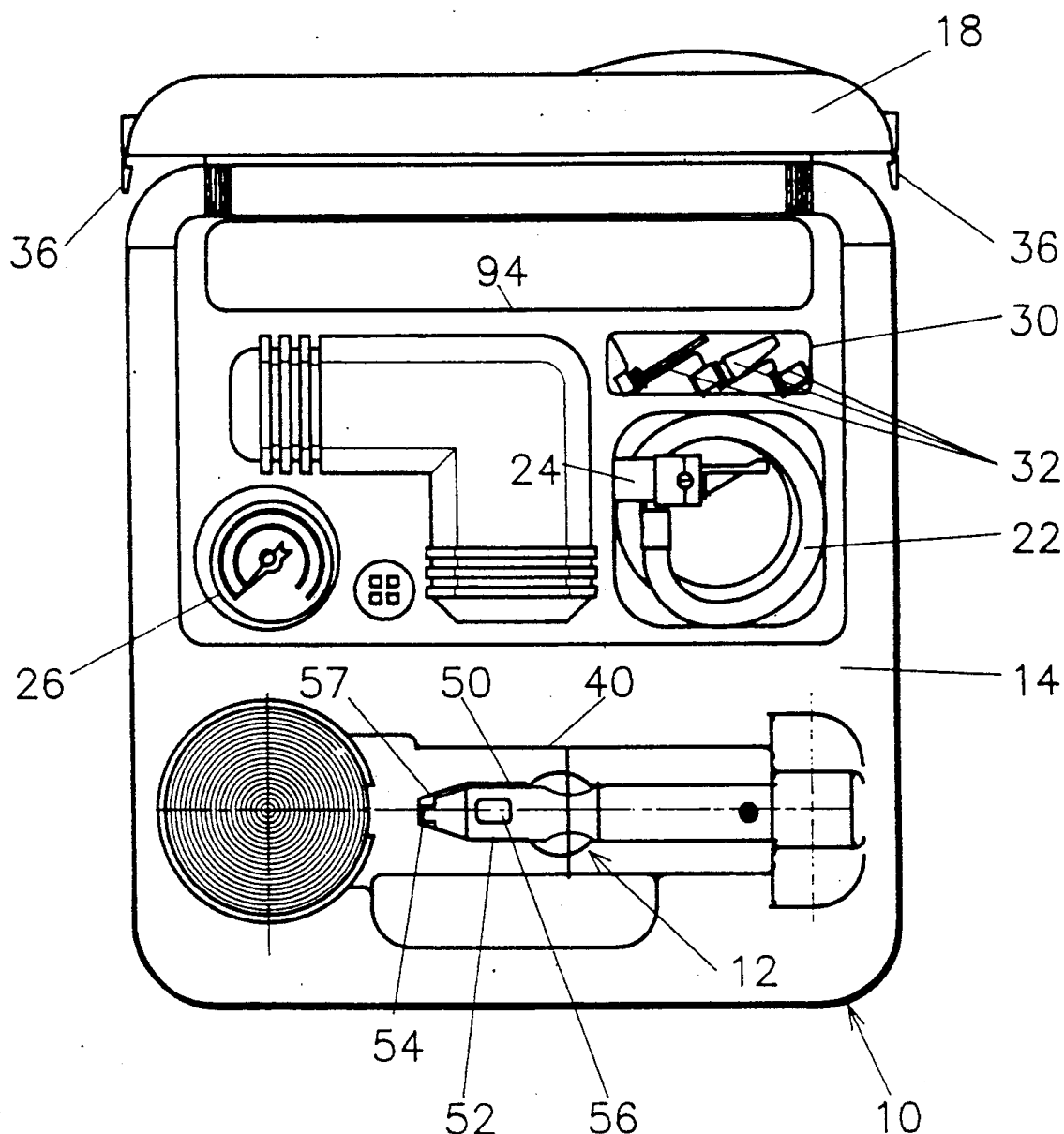
ADAM OPEL

Family 8/15 - FAMPAT - ©Questel

Title

(US5051068)

Compressors for vehicle tires

Images**Publication numbers with kind code & date**

GB2247052	A	1992-02-19	GB2247052
US5051068	A	1991-09-24	US5051068
GB9028000	D0	1991-02-13	GB9028000

**Abstract**

(US5051068)

A portable **compressor** of the **tire** in which an electrically powered **compressor** is housed in a case. The case having a hinged plug capable of being connected to and having fixed thereto by the connection a portable light fitting. The light fitting having permanently attached to it a length of electrical cord with a plug for temporary attachment to the cigar lighter of a vehicle to draw power from the vehicle's electrical system. The light fitting including an outlet socket to which the hinged plug can be connected for electrical connection of the electrically powered **compressor** and for fixing and supporting the light fitting on the case. The hinging of the plug allowing it and the light fitting when attached to it to be folded flat to the case for storage, and the light fitting to be upstanding from the case to illuminate the region of the case. When the light

fitting is removed from the plug, however, it can be used as a portable light fitting independent of the case.

Inventors

WONG ALEX Y K

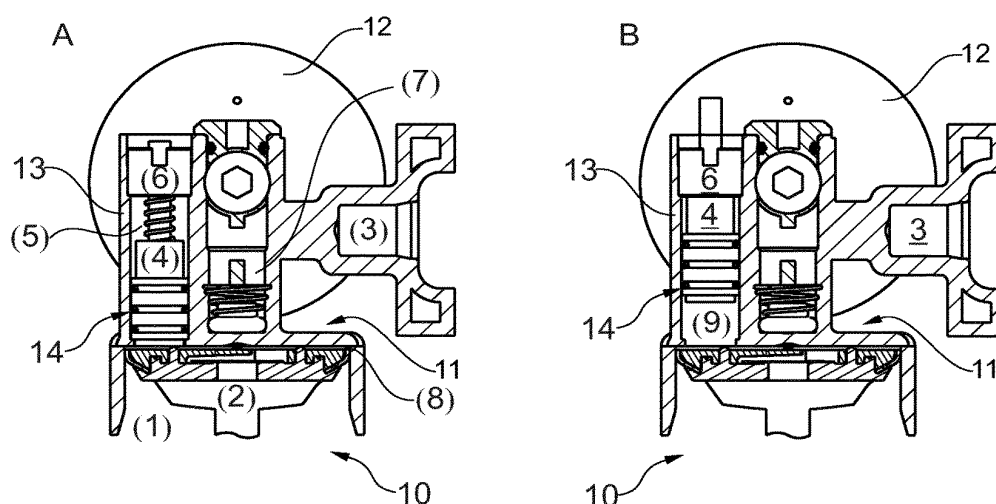
Family 9/15 - FAMPAT - ©Questel

Title

(EP3119595)

Device for sealing and **inflating** inflatable articles

Images



Publication numbers with kind code & date

CN106103062	B	2019-06-04	CN106103062B
EP3119595	B1	2018-03-14	EP3119595
JP6259112	B2	2018-01-10	JP6259112
US9796143	B2	2017-10-24	US9796143
JP2017507049	A	2017-03-16	JP2017507049
US20170072648	A1	2017-03-16	US20170072648
EP3119595	A1	2017-01-25	EP3119595
CN106103062	A	2016-11-09	CN106103062
DE102014205067	A1	2015-09-24	DE102014205067
WO2015/139856	A1	2015-09-24	WO2015139856



Abstract

(EP3119595)

The invention relates to a device for sealing and **inflating** inflatable objects, in particular for sealing and **inflating** motor vehicle tires. The device comprises a **compressor** unit as the compressed gas source which is designed as a reciprocating piston **compressor** (10) driven by a slider crank mechanism. The device further comprises a reservoir for an automatic sealant to be filled into the inflatable object and a **valve** and distribution unit interconnecting the reservoir and the **compressor** unit, said unit allowing the operation of the device alternatively in the two operating modes "inflate" and "convey sealant", the reciprocating piston **compressor** (10) having a variable dead air volume (9) the content of which can be varied depending on the particular operating mode.

(EP1817180)

A device is provided for maintaining a desired inflation pressure within a **tire** mounted on a wheel of a vehicle. The device includes a microcompressor and a magnetic element. The **compressor** is mounted on the wheel and is in fluid communication with the atmosphere and the **tire**. The magnetic element is mounted on a stationary member of the wheel assembly and produces a magnetic field. The **compressor** is activated by transiting the magnetic field during each wheel revolution. Alternatively, an electric coil mounted on the wheel may transit the magnetic field to generate electrical power for an electrically-driven **compressor**. Thus, the **compressor** may pump air into the **tire** to maintain the desired inflation pressure. For leaks or device failure, a driver may be notified and a battery can operate the **compressor** at a high rate to maximize **tire** use until a safe place is reached.

Inventors

LOEWE RICHARD

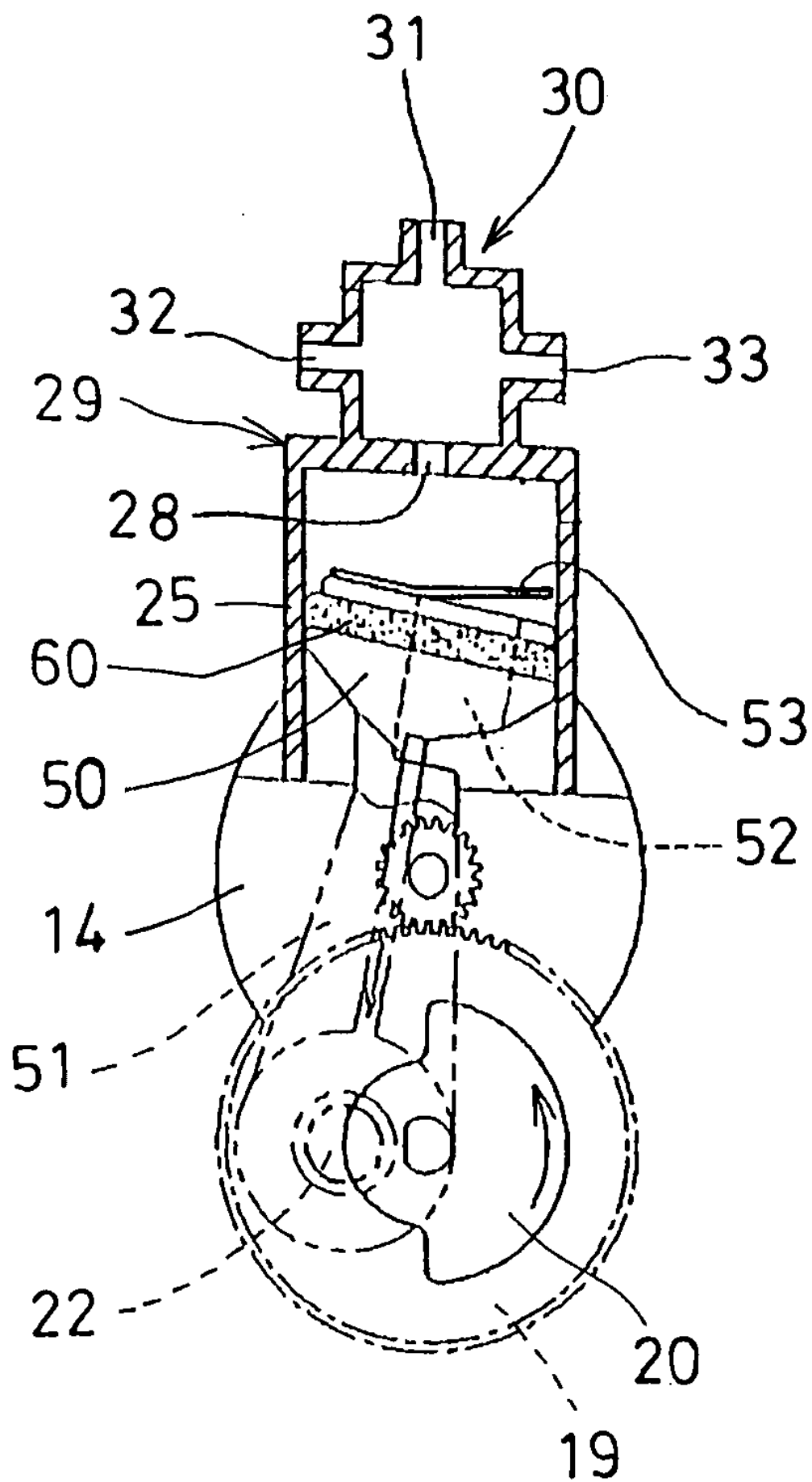
Family 11/15 - FAMPAT - ©Questel

Title

(US20050191193)

Air **compressor** for **tire inflating** combination

Images



Publication numbers with kind code & date

DE102005002542	A1	2006-02-23	DE102005002542
TW200528638	A	2005-09-01	TW200528638
US20050191193	A1	2005-09-01	US20050191193
TWI235790	B	2005-07-11	TWI235790

**Abstract**

(US20050191193)

An air **compressor** device includes a piston slidably engaged in a cylinder housing and having an outer peripheral groove formed by a base peripheral surface and two side surfaces, to form an outer opening and an inner recess, a motor is coupled to the piston to move the piston in the cylinder housing in reciprocating action, and a sealing ring is engaged in the outer peripheral groove of the piston, for making an air tight seal between the cylinder housing and the piston. The sealing ring includes a peripheral channel to form a base segment, an inner leg and an outer leg, the outer leg is extended out of the outer opening of the piston, for slidably engaging with the inner peripheral surface of the cylinder housing, even when the piston is tilted relative to the cylinder housing.

Inventors

CHOU WEN-SAN

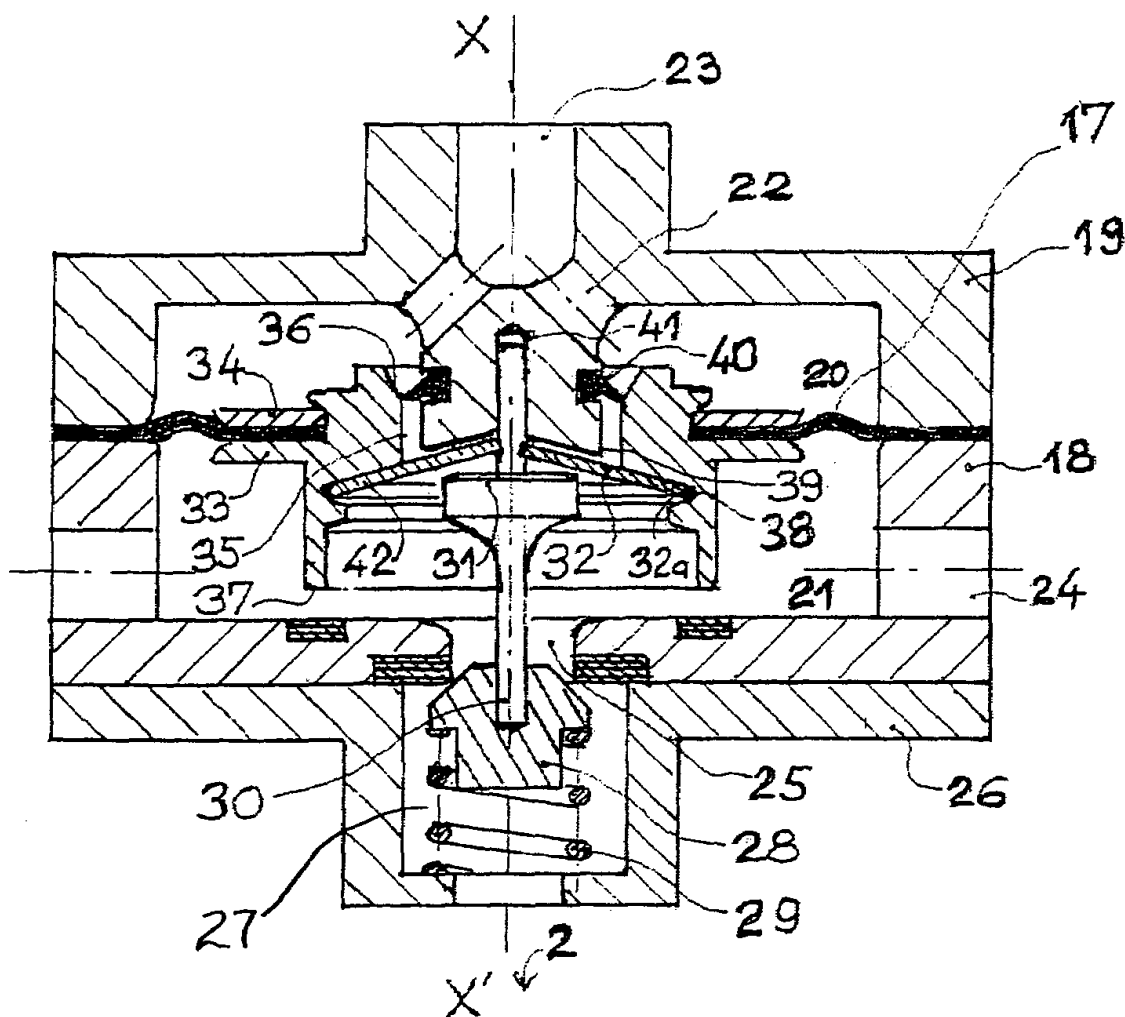
Family 12/15 - FAMPAT - ©Questel

Title

(EP-838380)

Electronic air dispensing and pressure balancing system for tyres

Images



Publication numbers with kind code & date

US7089953	B2	2006-08-15	US7089953
US20040103939	A1	2004-06-03	US20040103939
EP1377467	A1	2004-01-07	EP1377467
KR20030095394	A	2003-12-18	KR20030095394
FR2822918	B1	2003-06-13	FR2822918
WO02/78984	A1	2002-10-10	WO200278984
FR2822918	A1	2002-10-04	FR2822918



Abstract

(EP1377467)

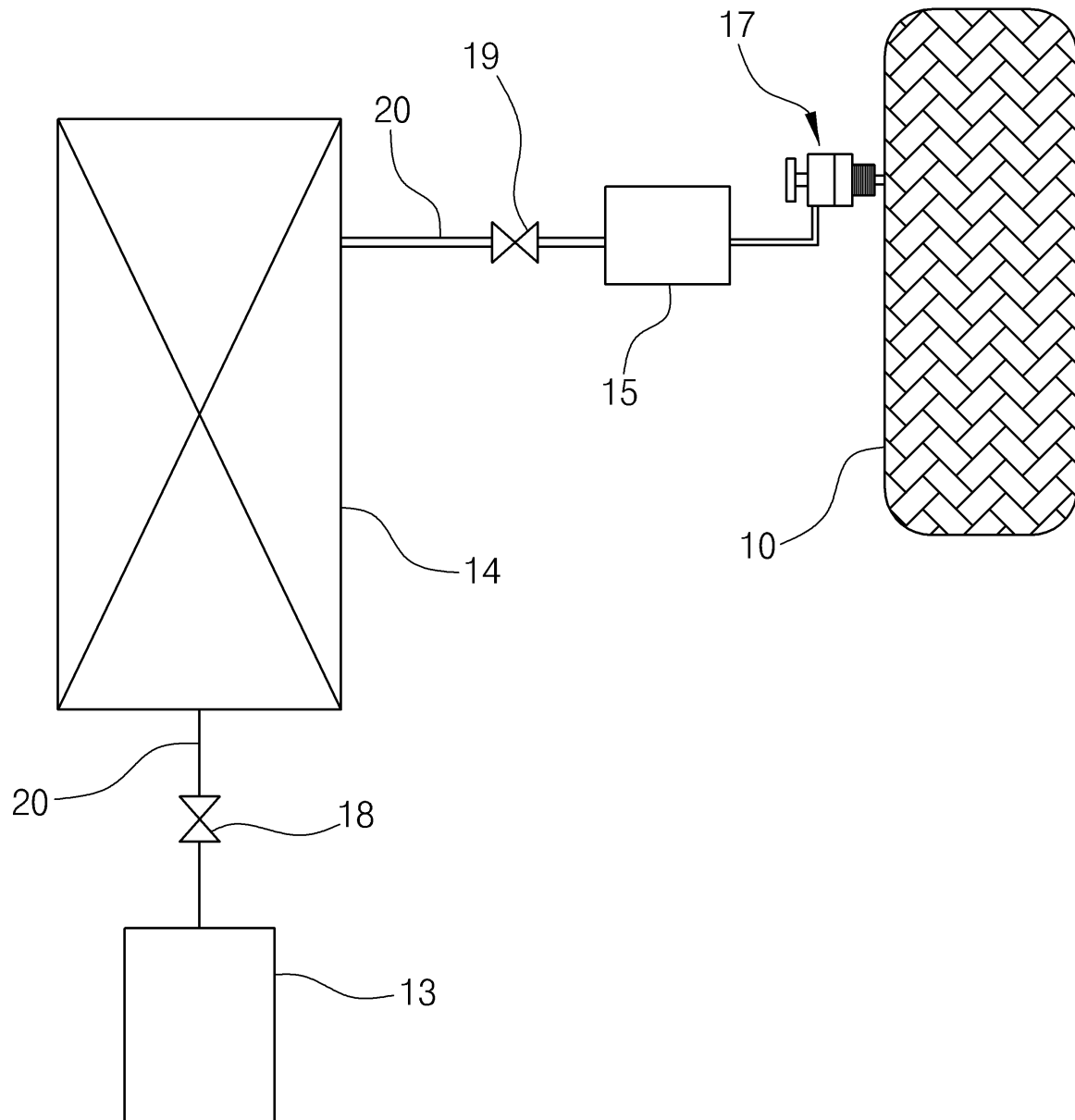
The invention concerns a controlled pneumatic **valve** (1), for remote **inflating** and deflating of a capacity (2), comprising a membrane (17) maintained between a **valve** body (18), including orifices (24) and a cover (19); and defining with said cover a control chamber (20) and with the body an escape chamber (21), the latter being capable of being connected with the capacity (2) for deflation when the check **valve** (28) is thrust by levers (32) inverting the direction of movement of the membrane (17) sucked towards the cover (19). By the action of a pressure in the control chamber (20), the membrane (17), bearing a cup (33) with an annular conduit, moves towards the body (18), isolates the escape chamber (21), and opens the check **valve** (28) by direct thrust to perform inflation. The inventive device is particularly designed to control and adjust tyre pressure.

Inventors

BEAU HENRI

(KR100930068)

Pneumatic pressure injector of a **tire** type heavy impact source for measurement of floor impact sound cut off performance, using a separate air injection connector attached to the exterior of the heavy impact source

Images**Publication numbers with kind code & date**

KR100930068	B1	2009-12-08	KR100930068
KR20080098713	A	2008-11-12	KR20080098713

**Abstract**

(KR20080098713)

PURPOSE: A pneumatic pressure injector of a **tire** type heavy impact source for measurement of floor impact sound cut off performance can inject the air into the impact source at the desired air pressure by using a simple air injection connector, and remove the air injection connector easily without air leakage.

CONSTITUTION: A pneumatic pressure injector of a **tire** type heavy impact source for measurement of floor impact sound cut off performance comprises a **tire**(10) as a heavy impact source, a **compressor**(14), an air supply pipeline(20), a first and a second pressure sensor, a three way **valve**(15), an air injection connector(17), and a controller. The air supply pipeline is installed between the **tire** and the **compressor**. The first and the second pressure sensor are installed in air inlets of the air supply pipeline and the **tire**, respectively. The three way **valve** is installed on the end of the air supply pipeline. The air injection connector interconnects an air injection pin of the **tire** and the three way **valve**. The controller receives sensing

signal from the first and the second pressure sensor and controls the operation of the three way valve and compressor.

(C) KIPO 2009

Inventors

LEE, YONG BONG

CHUNG, SUNG SOO

CHEON, BEONG SOO

YOON, SE WON

KIM, BYUNG-SUB

Latest standardized assignees - inventors removed

KOREA RESEARCH INSTITUTE OF STANDARDS & SCIENCE

Family 15/15 - FAMPAT - ©Questel

Title

(EP3416817)

Improved apparatus for sealing and inflation of damaged inflatable articles, such as punctured tires

Images

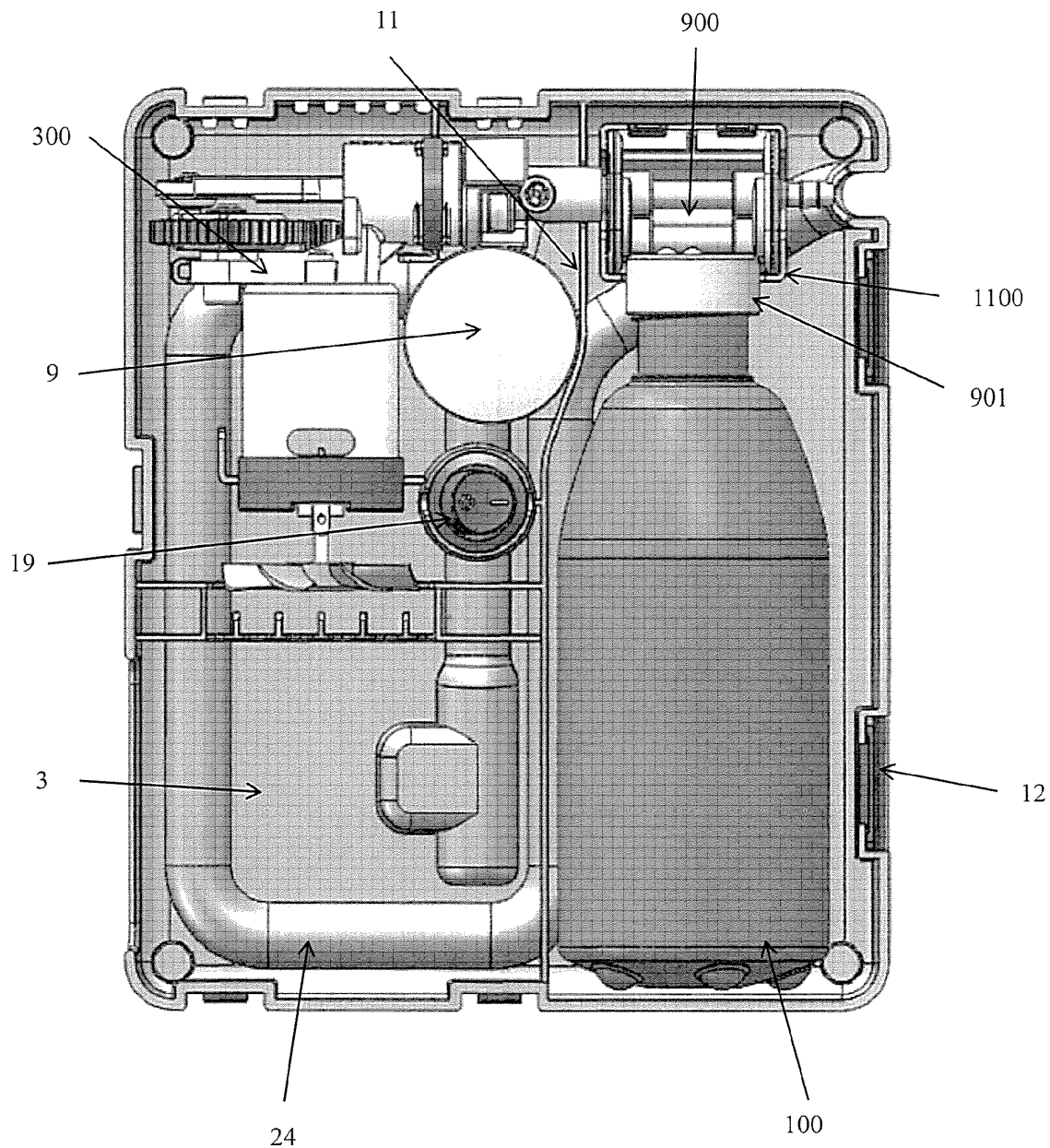


Figure 24

Publication numbers with kind code & date

EP3416817	A4	2019-10-23	EP3416817
MX2018009903	A	2019-07-18	MX2018009903
PH12018501759	A1	2019-05-15	PH12018501759
JP2019505419	A	2019-02-28	JP2019505419
BR112018016778	A2	2018-12-26	BR112018016778
EP3416817	A1	2018-12-26	EP3416817
VN60782	A	2018-12-25	VN--60782
IN201817030775	A	2018-12-07	IN201817030775
KR20180119604	A	2018-11-02	KR20180119604
CN108698342	A	2018-10-23	CN108698342
CL2018002342	A1	2018-09-28	CL201802342
SG11201806958P	A	2018-09-27	SG11201806958P
AU2017220380	A1	2018-09-06	AU2017220380
CO2018008682	A2	2018-08-31	CO2018008682



BR112018016778	A1	2018-08-28	BR112018016778
CA3014456	A1	2017-08-24	CA3014456
WO2017/139837	A1	2017-08-24	WO2017139837

**Abstract**

(EP3416817)

An apparatus for repairing and/or **inflating** a damaged and/or deflated inflatable article, such as a punctured and/or flat **tire**, includes a container for receiving and retaining for dispensing, a sealant composition and a **compressor** assembly which is releasably connectable to the container. The container has associated therewith a **valve** assembly which allows for controlled dispensing of the sealant composition from the container to the damaged and/or deflated inflatable article. The container is progressively and selectively movable between respective first and second positions/configurations. In the first position/configuration, the container is disposed substantially parallel to the **compressor** assembly and in the second position/configuration the container is disposed at substantially right angles to the **compressor** assembly. The first and second positions/configurations correspond to storage and dispensing positions respectively for the sealant composition from the container.

Inventors

DOWEL TERENCE

Latest standardized assignees - inventors removed

TRYDEL RESEARCH