

1) Family number: 66639017 (US2017233231A)

© PatBase

Title: CONTROL AUGMENTATION APPARATUS AND METHOD FOR AUTOMATED GUIDED VEHICLES

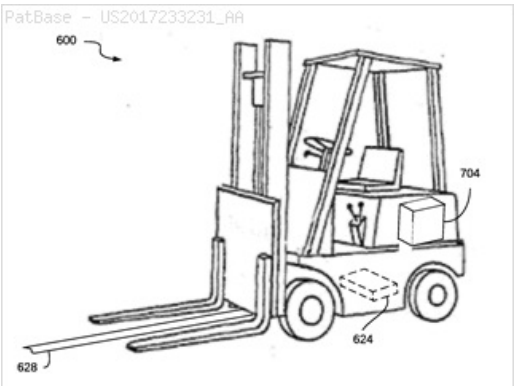
Abstract: An augmentation module is described for an automated guided vehicle (AGV) deployed in a facility and including a control module for controlling a drive mechanism based on navigational data received from a navigation sensor. The module includes a inter-module communications interface connected to the control module; a memory; and a processor connected to the communications interface and the memory. The processor is configured to: obtain an operational command; generate control data to execute the operational command; convert the control data to simulated sensor data; and send the simulated sensor data to the control module.

Classifications:

International (IPC 8-9): B66F9/06 B66F9/075 G05D1/00 G05D1/02 (Advanced/Invention)

CPC: B66F9/063 B66F9/0755 G05D1/021 G05D1/0238 G05D2201/0216

US: 1/1 701/2



Family:

Publication number	Publication date	Application number	Application date
US2017233231 AA	20170817	US20170429222	20170210
US10662045 BB	20200526	US20170429222	20170210

Priority:

US20160293948P 20160211 US20170429222 20170210

Probable Assignee: CLEARPATH ROBOTICS INC

Assignee(s): (std): CLEARPATH ROBOTICS INC

Inventor(s): (std): CLAYTON ROYDYN ; DAM ROBERT ; DOBSON ANDREW ; GARIEPY RYAN CHRISTOPHER ; TEBBS JESSE

Agent(s): BERESKIN AND PARR LLP SENCRL SRL

2) Family number: 70161106 (US2018170318A)

© PatBase

Title: OPERATING FLUID STORAGE SYSTEM WITH IDENTIFICATION OF THE RESERVOIR CONCERNED IN THE CASE OF A FILLING NEED

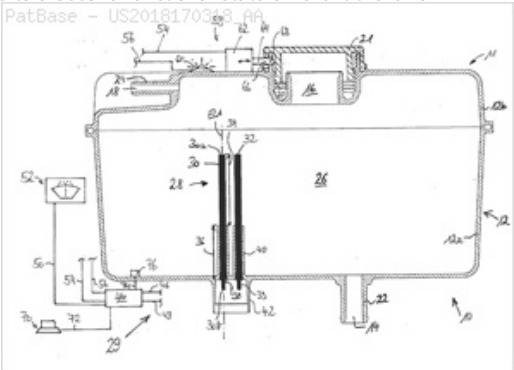
Abstract: An operating fluid storage system for a motor vehicle having a reservoir with a filling opening and a closure cover which closes the filling opening and which can be removed from said filling opening to release the filling opening, and with at least one operating fluid outlet opening, to which an operating fluid conveyor line can be connected, for the output of operating fluid to a consumer, the system having a need sensor assembly and an output device, the need sensor assembly determines a filling need of the reservoir and outputs a corresponding need signal to the output device which acoustically, visually and/or haptically outputs a signal indicating the filling need; on the reservoir, an identification device is provided, which can be switched between at least two functional states and which is connected to the need sensor assembly via signal transmission, and which, when the need sensor assembly determines a filling need of the reservoir, is actuated by a corresponding need signal of the need sensor assembly to change the functional state thereof from a first functional state to a second functional state different therefrom.

Classifications:

International (IPC 8-9): B60S1/50 B67D7/22 G01F23/00 G01F23/24 (Advanced/Invention)

CPC: B60S1/50 G01F23/0015 B60K15/03006 G01F23/242 B60K2015/03217 B60K15/03177 B60K2015/0319 B60K2015/0416 G01F23/0069 G01F23/24 B60K35/00 B60K2370/193 B60K2370/199

US: 1/1 137/558



Family:

Publication number	Publication date	Application number	Application date
DE102016225398 A1	20180621	DE201610225398	20161219
US2018170318 AA	20180621	US20170839038	20171212

Priority:

DE201610225398 20161219

Probable Assignee: ROECHLING AUTOMOTIVE SE AND CO KG**Assignee(s):** (std): ROECHLING AUTOMOTIVE SE AND CO KG**Inventor(s):** (std): GANTHALER CHRISTOPH ; KRAL WALTER ; NAVA CLAUDIO ; PURPS MICHAEL**3) Family number: 28890139 (US2003145403A)**

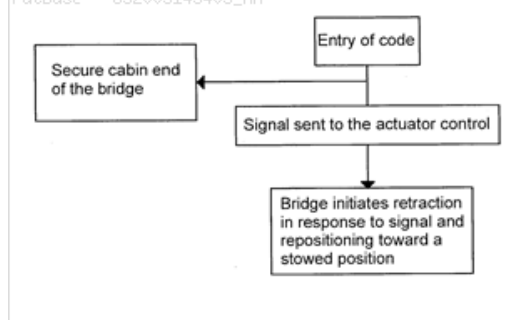
© PatBase

Title: AUTOMATICALLY RETRACTING PASSENGER LOADING BRIDGE

Abstract: A system for automatically retracting a passenger loading bridge from an engaged position relative to an aircraft having a door, the aircraft being releasably connectable to a service provider is disclosed. The system comprising at least a sensor for detecting one of a plurality of predetermined events other than a user input at an input device coupled thereto and for providing a signal in dependence upon said detected predetermined events; and a bridge actuator in operative communication with the at least a sensor for receiving the signal and for automatically performing a retraction movement in order to retract the bridge from the aircraft in response to the signal indicative of one of the plurality of predetermined events being sensed.

Classifications:**International (IPC 8-9):** B64F1/305 (Advanced/Invention)**International (IPC 1-7):** B64F1/305 E01D1/00**CPC:** B64F1/305**European:** B64F1/305**US:** 14/71.5 14/71.500P

PatBase - US2003145403_AA

**Family:**

Publication number	Publication date	Application number	Application date
CA2418523 AA	20030801	CA20032418523	20030131
CA2418523 C	20080115	CA20032418523	20030131
US2003145403 AA	20030807	US20030354053	20030130
US6698051 BB	20040302	US20030354053	20030130

Priority:

US20020352846P 20020201

US20030354053 20030130

CA20032418523 20030131

Probable Assignee: AMERIBRIDGE LLC**Assignee(s):** (std): DEW ENGINEERING AND DEVELOPMENT

Assignee(s): DEW ENGINEERING AND DEVELOPMENT LIMITED ; DEW ENGINEERING AND DEVELOPMENT LTD ; DEW ENGINEERING AND DEVELOPMENT LTD3429 HAWTHORNE ROADOTTAWAO1K1G 4G2CA ; DEW ENGINEERING AND DEVELOPMENT ULC ; DEW ENGINEERING AND DEVELOPMENT ULCSUITE 2600, THREE BENTALL CENTREPO BOX 49314595 BURRARD STREETVANCOUVERB1V7X 1L3CA ; HUTTON NEIL ; HUTTON NEIL952 MOUNTAINVIEW AVE.OTTAWAO1K2B 5G4CA ; 0827027 BC UNLIMITED LIABILITY CO ; 0827027 BC UNLIMITED LIABILITY COSUITE 2600, THREE BENTALL CENTREPO. BOX 49314595 BURRARD STREETVANCOUVERB1V7X 1L3CA ; AMERIBRIDGE LLC

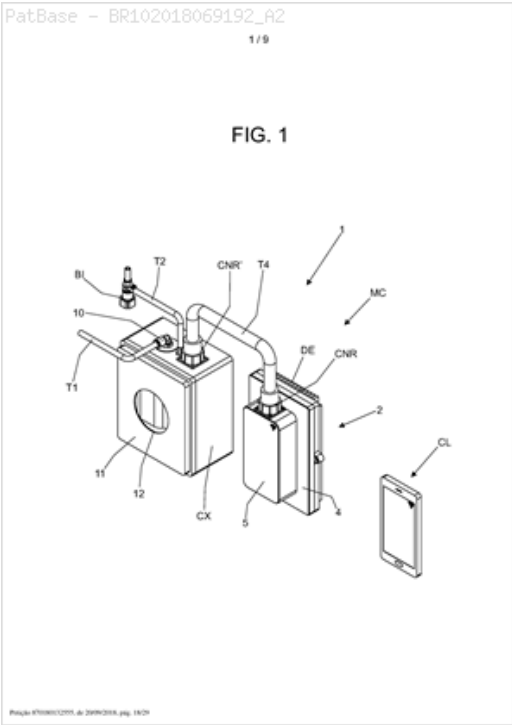
Inventor(s): (std): HUTTON NEIL**Inventor(s):** HUTTON NEIL952 MOUNTAINVIEW AVE.OTTAWAO1K2B 5G4CA ; NEIL HUTTON**Agent(s):** FREEDMAN AND ASSOCIATES; SHAPIRO COHEN LLP**4) Family number: 77987147 (BR102018069192A)**

© PatBase

Title: DISPOSITIVO APLICADO EM MOTORES DE COMBUSTAO INTERNA PARA ECONOMIA DE COMBUSTIVEL. Device APPLIED IN INTERNAL COMBUSTION ENGINES FOR FUEL ECONOMY. (Machine translation)

Abstract: Source: BR102018069192A [PT] RESUMO DISPOSITIVO APLICADO EM MOTORES DE COMBUSTAO INTERNA PARA ECONOMIA DE COMBUSTIVEL. O presente pedido de patente de invencao refere-se a um inedito dispositivo (1), cujo seu campo de aplicacao e voltado para veiculos de passeios, caminhoes e caminhonetes, os quais utilizam combustiveis como etanol, gasolina e diesel, objetivando gerar pulsos ultrassonicos em uma fracao de combustivel liquido (L), separando as moleculas por meio de cavitacao, gerando gases que ingressam pela admissao do veiculo que eletronicamente reconhece o combustivel agora gasoso, diminuindo o tempo de injecao dos bicos injetores (13), aumentando o desempenho e diminuindo o consumo de combustiveis. Peticao 870180132555, de 20/09/2018, pag. 17/29 **Machine translation:** Abstract DEVICE APPLIED IN INTERNAL COMBUSTION ENGINES FOR FUEL ECONOMY. The present invention relates to a novel device (1), whose its field of application and vehicles, trucks and pickup facing tours, which use gasoline and diesel fuels such as ethanol, to generate ultrasonic pulses in a fraction of liquid fuel (L), separating the molecules via intake gases entering the vehicle, generating cavitation by now that electronically recognizes the gaseous fuel, decreasing the injection time of injection nozzles (13), increasing performance and

Classifications:
International (IPC 8-9): F02M27/08 (Advanced/Invention)



Family:

Publication number	Publication date	Application number	Application date
BR102018069192 A2	20200317	BR20181069192	20180920

Priority:

BR20181069192 20180920

Probable Assignee: CARNIELLI INVESTIMENTOS E PARTICIPACOES LTDA

Assignee(s): (std): JOSE ROBERTO A DE SOUSA ; JOSE NILTON DA SILVA ; CARNIELLI INVESTIMENTOS E PARTICIPACOES LTDA

Inventor(s): (std): JOSE NILTON DA SILVA

5) Family number: 63863203 (WO16169985A1)

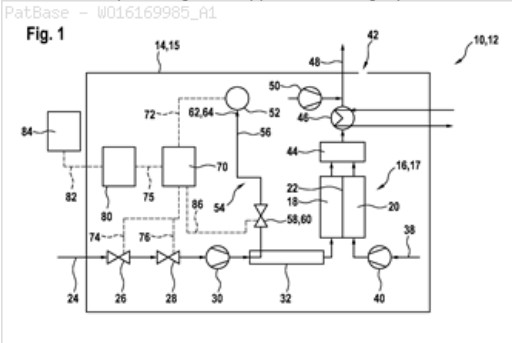
© PatBase

Title: HEATING SYSTEM AND METHOD FOR OPERATING A HEATING SYSTEM

Abstract: The invention relates to a heating system (10), in particular a fuel cell system (12) which comprises at least one sensor (52). According to the invention, at least one test device (54) which is designed to supply the at least one sensor (52) with at least one part of at least one fluid for testing. The invention further relates to a method for operating said type of heating system.

Classifications:

International (IPC 8-9): G01N27/00 G05B23/02 H01M8/04 H01M8/04082 H01M8/04089 H01M8/0444 H01M8/04664 H01M8/04746 H01M8/04955 (Advanced/Invention)
CPC: F24D2200/19 F24H1/00 F24H2240/10 G01N2033/0072 H01M8/04089 H01M8/04686 H01M8/04753 H01M2250/405 Y02B90/16
JP F-Term: 5H125 5H125/AA01 5H125/AC07 5H125/BD04 5H125/BD12 5H125/CD09 5H125/EE37 5H125/FF27 5H126 5H126/BB06 5H127 5H127/AA07 5H127/AB22 5H127/AC02 5H127/BA05 5H127/BA13 5H127/BA17 5H127/BA18 5H127/BA37 5H127/BA57 5H127/BA59 5H127/BB02 5H127/BB12 5H127/BB37 5H127/DB08 5H127/DB18 5H127/DB42 5H127/DB50 5H127/DB52 5H127/DB90 5H127/DC09 5H127/DC99
JP F-Index: B60L11/18/G B60L50/72 B60L58/34 H01M8/04/H H01M8/04/J H01M8/04/Z H01M8/0444 H01M8/04537 H01M8/04664 H01M8/04694 H01M8/04955 H01M8/10/101 H01M8/12/101



Family:

Publication number	Publication date	Application number	Application date
CN107534174 A	20180102	CN201680023272	20160420
DE102015207167 A1	20161027	DE201510207167	20150421
EP3286792 A1	20180228	EP20160717632	20160420
JP2018518015 T2	20180705	JP20170555375T	20160420
WO16169985 A1	20161027	WO2016EP58763	20160420

Priority:

DE201510207167 20150421

WO2016EP58763 20160420

Probable Assignee: ROBERT BOSCH GMBH

Assignee(s): (std): BOSCH GMBH ROBERT

Assignee(s): ROBERT BOSCH GMBH

Inventor(s): (std): FRIEDE WOLFGANG ; HERBERT CHRISTIAN ; KLEINEIKENSCHIEDT GEROLD ; LIMBECK UWE

Agent(s): MORITA HIROSHI

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

6) Family number: 30121204 (US2003234010A)

© PatBase

Title: METHODS AND APPARATUS FOR CONVERTING INTERNAL COMBUSTION ENGINE (ICE) VEHICLES TO HYDROGEN FUEL

Abstract: The present invention concerns apparatus, kits and methods for converting ICE vehicles to run on hydrogen fuel. Certain embodiments of the invention may comprise HIPAs (hydrogen injection port adaptors), hydrogen gas manifolds and hydrogen fuel sources. The HIPAs are designed to replace the spark plugs in internal combustion engines and may comprise a hydrogen input tap, hydrogen channel, spark producer and/or feedback sensor. In some embodiments, a computer and/or CPU may electronically control the timing of hydrogen ignition. In other embodiments, a mechanical timing system may supplement or replace electronic control of ignition timing. In various embodiments, any source of hydrogen fuel may be used. In preferred embodiments, the hydrogen fuel source comprises doped sodium alanate compositions. The hydrogen fuel may be packaged into cassettes or other modular storage systems. Cassettes may be inserted into Decom™ units to provide hydrogen fuel to the vehicle.

Classifications:

International (IPC 8-9): B01J7/00 B65B1/04 B65B1/08 B65B1/16 B65B1/20 B65B1/30 B65B3/04 B67D99/00 B82Y30/00 C01B3/00 C01B6/06 C01B6/24 C07F17/00 C22C21/00 F01N3/20 F02B43/10 F02B69/04 F17C11/00 F17D1/04 F17D3/00 G05B21/00 G05D11/00 G11B20/06 G11B23/00 G11B23/02 G11B5/02 H01M8/00 H01M8/04 H01M8/06 H01M8/18 (Advanced/Invention); F17C11/00 H01M8/04 H01M8/06 (Advanced/Non-invention); B01J7/00 C01B3/00 C01B6/00 C07F17/00 C22C21/00 F02B43/00 F02B69/00 H01M8/04 H01M8/06 H01M8/18 (Core/Invention); H01M8/04 (Core/Non-invention); C10G (Subclass/Invention)

International (IPC 1-7): B65B B65B1/04 B65B1/08 B65B1/16 B65B1/20 B65B1/30 B65B3/04 B67D5/00 C01B3/02 C01B3/04 C01B3/06 C01B3/08 C01B6/02 C01B6/04 C01B6/06 C01B6/24 C06B43/00 C09K3/00 C10G C10J3/20 F02B43/00 F17C1/00 F17C11/00 F17C7/00 F17D1/04 G05D11/00 G11B20/06 G11B23/00 G11B23/02 G11B5/02 H01M8/04 H01M8/12 H01M8/18

CPC: B01J7/00 F17D3/00 Y10S420/90 C01B3/001 C01B3/0078 C01B6/243 C01B3/065 C01B2203/066 Y02E60/362 C01B3/0005 F17C11/005 H01M8/04201 H01M8/04208 Y02E60/34 H01M8/04216 B82Y30/00 C01B3/0021 C01B3/0026 C01B3/0031 C01B3/0084 C07F17/00 F02B43/10 F02B69/04 F17C2270/0763 H01M8/065 Y02E60/321 Y02E60/325 Y02E60/327 Y02T10/32 Y10T137/2569 Y10T137/6881 Y10T137/86276 H01M8/04 H01M8/04097 Y02E60/50 Y02P90/45

European: B82Y30/00 C01B3/00D C01B3/00D2 C01B3/00D2C C01B3/00D2D C01B3/00D2F C01B3/00D2H C01B3/00D2J C01B3/06C C01B6/24B C07F17/00 F02B43/10 F02B69/04 F17C11/00D H01M8/04 H01M8/04C2B H01M8/04C6 H01M8/04C6B H01M8/04C6D H01M8/06B4 M01B203/06H R17C270/07G T01M8/04C6 T01M8/04C6B T01M8/06B4 Y02E60/32B Y02E60/32F Y02E60/32F2 Y02E60/32F4 Y02E60/34 Y02E60/36 Y02E60/36B Y02E60/50

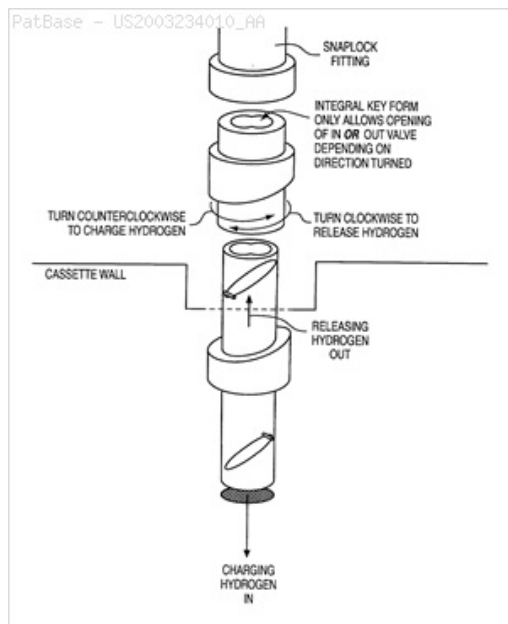
US: 123/527 123/575 123/DIG.012 123/DIG.12 123/DIG.12S 137/113 137/351 137/581 137/581S 141/18 141/192 141/2 141/21 141/22 141/231 141/231S 141/51 141/67 141/82 141/95 206/0.6 206/0.600S 222/3 222/3P 222/3S 252/182.35 252/182.350S 252/184 252/188.25 252/188.26 252/188.27 360/131 360/131S 360/132 360/29 360/59 420/543 420/900 422/105 422/105P 422/162 422/211 422/239 422/305 423/644 423/644S 423/648.1 423/648.100P 423/658.2 423/658.200S 429/12 429/13 429/19 429/2 429/20 429/22 429/34 429/421 429/421S 429/442 429/444 429/444S 429/515 429/515P 429/515S 48/204 48/61 48/65 482/61 700/266 700/274

JP F-Term: 3C082 3E072 3E172 3E172/AA02 3E172/AA09 3E172/AB01 3E172/BA01 3E172/BB02 3E172/BB13 3E172/BB17 3E172/BC01 3E172/BC05 3E172/BC07 3E172/BC08 3E172/BC10 3E172/BD03 3E172/BD10 3E172/DA87 3E172/EA02 3E172/EA31 3E172/EB02 3E172/EB11 3E172/FA01 3E172/FA10 3E172/FA13 3E172/KA02 3E172/KA03 3E172/KA11 3E172/KA21 3E172/KA23 4G140 4G140/AA11 4G140/AA29 5H027 5H027/AA02 5H027/BA13 5H027/BA14 5H027/DD05 5H127 5H127/AB04 5H127/AB05 5H127/AB29 5H127/AC02 5H127/AC07 5H127/BA01 5H127/BA02 5H127/BA16 5H127/BA22 5H127/BA23 5H127/BA24 5H127/BA59 5H127/BB02 5H127/EE12 5H127/EE13 5H127/EE19 5H127/FF20

JP F-Index: B82Y30/00 C01B3/00/A F17C11/00/C H01M8/04/N

Family:

Publication number	Publication date	Application number	Application date
AU2003218237 AA	20030929	AU20030218237	20030314
AU2003218237 AH	20030929	AU20030218237	20030314
AU2003256303 AA	20040106	AU20030256303	20030625
AU2003256303 AH	20040106	AU20030256303	20030625
AU2003272269 AA	20040430	AU20030272269	20030905
AU2003272269 AH	20040430	AU20030272269	20030905
AU2003297634 AA	20040623	AU20030297634	20031203
AU2003297634 AH	20040623	AU20030297634	20031203
AU2003304179 AA	20050104	AU20030304179	20030709
AU2003304179 AH	20050104	AU20030304179	20030709
EP1581931 A2	20051005	EP20030812499	20031203



JP2006509163 T2	20060316	JP20040557551T	20031203
US2003234010 AA	20031225	US20020178974	20020625
US2004009121 AA	20040115	US20030463352	20030616
US2004016769 AA	20040129	US20020241125	20020910
US2004023087 AA	20040205	US20020310498	20021204
US2004094134 AA	20040520	US20030637948	20030807
US2007259220 AA	20071108	US20070700745	20070130
US2013071294 AA	20130321	US20110200630	20110926
US7011768 BB	20060314	US20030463352	20030616
US7169489 BB	20070130	US20020310498	20021204
US7399325 BA	20080715	US20020099771	20020315
US8066946 BB	20111129	US20070700745	20070130
US8932184 BB	20150113	US20110200630	20110926
WO03078252 A2	20030925	WO2003US08298	20030314
WO03078252 A3	20040610	WO2003US08298	20030314
WO04001205 A2	20031231	WO2003US19950	20030625
WO04001205 A3	20040617	WO2003US19950	20030625
WO04024845 A2	20040325	WO2003US27756	20030905
WO04024845 A3	20040701	WO2003US27756	20030905
WO04050798 A2	20040617	WO2003US38452	20031203
WO04050798 A3	20050707	WO2003US38452	20031203
WO04108590 A2	20041216	WO2003US21698	20030709
WO04108590 A3	20050506	WO2003US21698	20030709

Priority:

US20020099274	20020315	US20020099771	20020315	US20020178974	20020625
US20020395013P	20020710	US20020241125	20020910	US20020310498	20021204
WO2003US08298	20030314	US20030463352	20030616	WO2003US19950	20030625
WO2003US21698	20030709	WO2003US21698	20030709	US20030637948	20030807
WO2003US27756	20030905	WO2003US27756	20030905	WO2003US38452	20031203
US20070700745	20070130	US20110200630	20110926		

Probable Assignee: LIMNIA INC

Assignee(s): (std): REDMOND SCOTT D ; PISTOR CHRISTOPH ; FUELSELL TECHNOLOGIES INC

Assignee(s): ELECTRIC FUEL LTD ; JENSEN CRAIG M ; LIMNIA INC

Inventor(s): (std): JENSEN CRAIG M ; REDMOND SCOTT D ; SCOTT D REDMOND ; PISTOR CHRISTOPH

Inventor(s): CRAIG M JENSEN ; REDMOND SCOTT

Agent(s): BLAKELY SOKOLOFF TAYLOR AND ZAFMAN; BLAKELY SOKOLOFF TAYLOR AND ZAFMAN LLP; BLAKLEY SOKOLOFF TAYLOR AND ZAFMAN LLP; PATRICK F

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

7) Family number: 30459240 (US2004065676A)

© PatBase

Title: RESIDENTIAL COMPRESSOR FOR REFUELING MOTOR VEHICLES THAT OPERATE ON GASEOUS FUELS

Abstract: A compressor for natural gas is made in a format suitable for mounting on a wall or upright support at a residential location to permit refilling of the gas reservoir of a gaseous-fueled motor vehicle parked at the residence. The wall-mounted appliance has vibration isolation supports, to minimize transmission of noise into the residence. It has a ventilation and air circulation system that allows it to test for the presence of flammable gas both leaking from the appliance and present in the adjacent ambient environment, e.g. a garage. A motor speed control system permits operation of the appliance at speeds which are reduced when approaching the final pressure for the motor vehicle reservoir and at speeds which avoid the natural resonant frequencies of the system.

Classifications:

International (IPC 8-9): B01D53/00 B01D53/26 B60S5/02 B65B1/04

B65B1/30 F02B43/00 F02F3/10 F04B19/04 F04B39/00 F04B39/06

F04B39/12 F04B39/16 F04B41/00 F04B43/00 F04D29/00 F17C1/00

F17C5/00 F17C5/06 F25J1/00 F26B19/00 (Advanced/Invention);

B01D53/26 B60S5/00 B65B1/04 B65B1/30 F02B43/00 F02F3/10

F04B39/00 F04B39/06 F04B39/12 F04B39/16 F17C1/00 F17C5/00

F25J1/00 (Core/Invention)

International (IPC 1-7): B01D53/00 B01D53/26 B60S5/02 B67D5/00

F02B43/00 F04B39/16 F04D29/00 F17C1/00 F17C5/00

CPC: F02M21/0227 B01D53/261 F02B43/00 F02F3/10 F04B39/0027

F04B39/066 F04B39/16 Y02E60/321 Y02T10/32

European: B01D53/26B F02B43/00 F02F3/10 F04B39/00D F04B39/06D

F04B39/16 Y02E60/32B

US: 141/197 141/82 141/94 141/94P 141/95 141/98 222/3 222/3P 34/78

34/90 417/236 417/238 417/244 417/244P 417/313

JP F-Term: 3E072 3E072/AA01 3E072/DA05 3E172 3E172/AA02

3E172/AA05 3E172/AB01 3E172/AB04 3E172/BD03 3E172/DA47

3E172/DA90 3E172/EA02 3E172/EA22 3E172/EA30 3E172/EA35

3E172/EA45 3E172/EA51 3H003 3H003/AA00 3H003/AB00 3H003/AC01

3H003/BG04 3H003/CD05 3H003/CF04 4D047 4D047/AA02 4D047/AA10

4D047/BA03 4D047/BB03 4D047/BB10 4D047/CA15 4D047/EA03 4D052

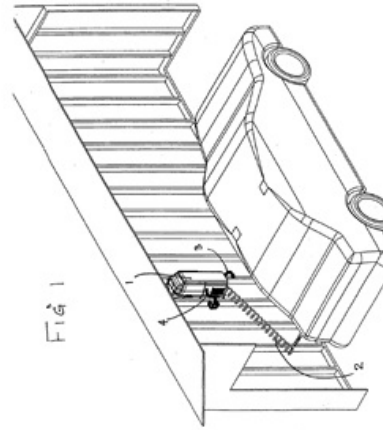
4D052/AA01 4D052/AA04 4D052/CC11 4D052/CC12 4D052/DA01

4D052/DA06 4D052/DB01 4D052/HA02 4D052/HA03

JP F-Index: F17C5/06 B01D53/26/A B01D53/26/100 B01D53/26/101/C

B01D53/26/230 F04B39/00/106/C F04B39/12/101/A F04B39/16/F

F25J1/00/B F25J1/00/C

**Family:**

Publication number	Publication date	Application number	Application date
AT380968 E	20071215	AT20030753163T	20031006
AU2003271454 AA	20040423	AU20030271454	20031006
AU2003273657 AA	20040423	AU20030273657	20031006
AU2003273657 AH	20040423	AU20030273657	20031006
BRPI0315043 A	20050823	BR2003PI15043	20031006
BRPI0315044 A	20050906	BR2003PI15044	20031006
BRPI0315044 B1	20110823	BR2003PI15044	20031006
CA2440255 AA	20050309	CA20032440255	20030909
CA2500915 AA	20050401	CA20032500915	20031006
CA2500915 C	20120103	CA20032500915	20031006
CA2500989 AA	20050401	CA20032500989	20031006
CL2005000720 A1	20060707	CL20050000720	20050330
CL2005000721 A1	20060707	CL20050000721	20050330
CL46212 B	20100115	CL20050000721	20050330
CL46537 B	20100519	CL20050000720	20050330
CN100400959 C	20080709	CN200380104911	20031006
CN1720090 A	20060111	CN200380104914	20031006
CN1720090 B	20100428	CN200380104914	20031006
CN1720412 A	20060111	CN200380104911	20031006
DE60318083 D1	20080124	DE20036018083T	20031006
DE60318083 D1	20080124	DE20036018083	20031006
DE60318083 T2	20081120	DE20036018083T	20031006
DK1549878 T3	20080505	DK20030753163T	20031006
EP1549878 A1	20050706	EP20030753163	20031006
EP1549878 B1	20071212	EP20030753163	20031006
EP1558365 A2	20050803	EP20030757569	20031006
ES2298554 T3	20080516	ES20030753163T	20031006
IN01319DN2005 A	20070525	IN2005DN01319	20050401
IN01320DN2005 A	20101119	IN2005DN01320	20050401
IN02512DN2008 A	20090320	IN2008DN02512	20080325
IN05982DN2008 A	20081024	IN2008DN05982	20080708
IN234970 B	20090731	IN2005DN01319	20050401
IN256454 B	20130621	IN2005DN01320	20050401
JP2006501416 T2	20060112	JP20040540409T	20031006
JP2006502374 T2	20060119	JP20050500010T	20031006
JP4499659 B2	20100707	JP20050500010T	20031006
MXPA05003602 A1	20060405	MX2005PA03602	20031006
MXPA05003603 A1	20060405	MX2005PA03603	20031006
RU2005113866 A	20051010	RU20050113866	20031006
RU2005113867 A	20051010	RU20050113867	20031006
RU2322637 C2	20080420	RU20050113867	20031006
RU2336434 C2	20081020	RU20050113866	20031006
US2004065676 AA	20040408	US20020265096	20021004

US2006231160 AA	20061228	US20030530319	20031006
US7011118 BB	20060314	US20020265096	20021004
US8016570 BB	20110913	US20030530247	20031006
WO04030794 A2	20040415	WO2003CA01474	20031006
WO04030794 A3	20040617	WO2003CA01474	20031006
WO04031643 A1	20040415	WO2003CA01475	20031006

Priority:

US20020265096 20021004 CA20032440255 20030909 US20030440255 20030909
CA20032500915 20031006 EP20040030794 20031006 EP20040031643 20031006
US20030530310 20031006 US20030530247 20031006 WO2003CA01475 20031006
WO2003CA01474 20031006

Probable Assignee: CUBOGAS SRL

Assignee(s): (std): 2045951 ONTARIO INC ; CHAPNIK BRIAN ; DEMALINE TRACEY ; MOJSOV TOME ; MTM S R L ; RACKHAM RALPH ; WOJCIECHOWSKI PAWEL ; WOJCIECHOWSKIM PAWEL ; RACKMAN RALPH ; FUELMAKER CORP ; CHAN ANTHONY ; FJUELMEHJKER CORP ; ATANASSOV FILIP

Assignee(s): 204591 ONTARIO INC ; CUBOGAS SRL ; CHAN ANTHONY WAI PANG ; FJUELMEHJKER KORPOREJSHN ; WOJCIECHOWSKI PAWEL ; MTM SRL ; ASSET CO 3 SRL ; ATANASSOV FILIP

Inventor(s): (std): REHKKHEM RAL F ; VOJTSEKHOVSKIM PAVEL ; TRACEY DEMALINE ; TOME MOJSOV ; RALPH RACKMAN ; RALPH RACKHAM ; PAWEL WOJCIECHOWSKIM ; FILIP ATANASSOV ; CHAN ANTHONY WOJCIECHOWSKIM PAWEL RACKHAM RALPH DE ; CHAN ANTHONY ATANASSOV FILIP RACKHAM RALPH MOJSOV ; BRIAN CHAPNIK ; ANTHONY CHAN ; RACKMAN RALPH ; ATANASSOV FILIP ; WOJCIECHOWSKIM PAWEL ; WOJCIECHOWSKI PAWEL ; WOJCIECHOWSKI PAWEL ; TRACEY CHAN ANTHONY ATANASSOV ; TOME CHAN ANTHONY WOJCIECHOWSK ; CHEHN EHNTONI ; CHEHPNIK BRAJAN ; DIMEHLIN TREHJSI ; RACKHAM RALPH ; MOJSOV TOME ; MODZHSOV TOM ; DEMALINE TRACEY ; CHAPNIK BRIAN ; CHAN ANTHONY ; ATANASSOV FILIP ; CHAN ANTHONY WAI PANG

Inventor(s): CHAN ANTHONY ATANASSOV FILIP RACKHAM RALPH... ; NA ; CHAN ANTHONY WOJCIECHOWSKIM PAWEL RACKHAM... ; CHAN ANTHONY WOJCIECHOWSKIM PAWEL RACKHAM RALPH DEMALINE TRACEY CHAPNIK BRIAN MOJSOV TOME ; CHAN ANTHONY ATANASSOV FILIP RACKHAM RALPH MOJSOV TOME DEMALINE TRACEY ; RACKHAM RALPH ; REHKKHEM RALF ; CHAN ANTHONY WOJCIECHOWSKI PAWEL RACKHAM RALPH DEMALINE TRACEY CHAPNIK BRIAN

Agent(s): FRENCH DAVID J; MILTONS LLP SRL; MILTONS IP PI; CLARKE; NAWROCKI ROONEY AND SIVERTSON SUITE 401 BROADWAY PLACE EAST; NAWROCKI ROONEY AND SIVERTSON, SUITE 401 BROADWAY PLACE EAST; NAWROCKI ROONEY AND SIVERTSON; DAVID J; NAWROCKI ROONEY AND SIVERTSON PA

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

8) Family number: 79154263 (IN201841043619A)

© PatBase

Title: AUTOMOBILE ENGINE OIL EXTRACTOR

Abstract: The present invention discloses a system and method for a liquid transfer apparatus 104 comprising an automatic nut remover 202 attached to a liquid source 106, and a drain pipe 108 for drawing a liquid from the liquid source 106 into a hopper 110 via the automatic nut remover 202. The liquid transfer apparatus 104 also comprises a pneumatic pump 204 to create a suction to expedite the process of drawing the liquid from the liquid source 106, a transparent window 112 to determine whether the drawn liquid is reusable or non-reusable, and a diverter 206 for transferring the drawn liquid to one or more of the sealed tanks 114. The liquid transfer can be controlled based on a sensor 208 present in one or more sealed tanks 114. The transferred liquid in the sealed tank 114 can be removed by using a disposal pipe 116.

Classifications:

International (IPC 8-9): A61F7/00 B01L3/02 B08B9/08 F04F1/02 G01N35/10 (Advanced/Invention)

Family:

Publication number	Publication date	Application number	Application date
IN201841043619 A	20200522	IN201841043619	20181120

Priority:

IN201841043619 20181120

Probable Assignee: KAMATH AUTO RECYCLERS PVT LTD

Assignee(s): KAMATH AUTO RECYCLERS PVT LTD

Inventor(s): ANJANA KAMATH ; GANESH V KAMATH

9) Family number: 79154265 (IN201841043620A)

© PatBase

Title: AUTOMOBILE BRAKE OIL EXTRACTOR

Abstract: The present invention discloses a system and method for a liquid transfer apparatus (100). The liquid transfer apparatus (100) comprises a liquid source (102) comprising a liquid to be transferred. A flexible element (104) is attached to the liquid source (102), wherein the flexible element (104) is configured to form an airtight connection with the liquid source (102). A gun-shaped extractor (106) is attached to the flexible element (104), where the gun-shaped extractor (106) is configured to draw the liquid from the liquid source (102) via the said flexible element (104) into a sealed tank (112). A vacuum pump (108) is attached to the gun-shaped extractor (106) in an airtight manner, and operation of the vacuum pump (108) creates a negative pressure sufficiently powerful to draw the liquid from the liquid source (102) into the gun-shaped extractor (106) via the flexible element (104).

Classifications:

International (IPC 8-9): A61B17/12 A61B17/30 A61M16/10 A62C35/68 H01L21/683 (Advanced/Invention)

Family:

Publication number	Publication date	Application number	Application date
IN201841043620 A	20200522	IN201841043620	20181120

Priority:

IN201841043620 20181120

Probable Assignee: KAMATH AUTO RECYCLERS PVT LTD
Assignee(s): KAMATH AUTO RECYCLERS PVT LTD
Inventor(s): ANJANA KAMATH ; GANESH V KAMATH

10) Family number: 23295271 (EP1209345A1)

© PatBase

Title: SYSTEM FOR AN INTERNAL COMBUSTION ENGINE

Abstract: Source: EP1209345A1 [DE] Die Erfindung betrifft ein Brennkraftmaschinensystem zum Zufuehren von abgeschiedenem Wasser in eine Brennkraftmaschine 10. Das Wasser wird in einem Kraftstofffilter 19, insbesondere einem Dieselmkraftstofffilter, abgeschieden und in einem Wasserspeicher 22 gesammelt. Das gesammelte Wasser wird ueber eine Verbindungsleitung 24, welche den Wasserspeicher 22 mit der Brennkraftmaschine 10 verbindet, in die Brennkraftmaschine eingebracht. Hierbei kann das Wasser dem zurueckgefuehrten Abgas oder direkt der Brennkraftmaschine zugefuehrt werden.

Classifications:

International (IPC 8-9): F02M25/03 F02M25/07 F02M26/36 F02M37/22 F02M57/00 (Advanced/Invention);

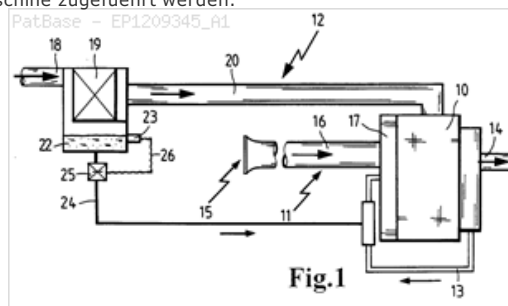
F02M25/00 F02M25/07 F02M37/22 F02M57/00 (Core/Invention)

International (IPC 1-7): F02M25/03 F02M25/07 F02M37/22 F02M57/00

CPC: F02M25/0227 F02M26/36 F02M25/0222 F02M25/03 F02M37/28

F02M37/32 Y02T10/121

European: F02M25/022 F02M25/03 F02M25/07P12 F02M37/22A

**Family:**

Publication number	Publication date	Application number	Application date
DE10055946 A1	20020523	DE20001055946	20001110
EP1209345 A1	20020529	EP20010124639	20011016

Priority:

DE20001055946 20001110

Probable Assignee: MANN AND HUMMEL GMBH
Assignee(s): (std): MANN AND HUMMEL GMBH ; MANN AND HUMMEL FILTER
Assignee(s): FILTERWERK MANN AND HUMMEL GMBH
Inventor(s): (std): FISCHER HELMUTH ; WILD STEPHAN ; WILD STEPHAN DR
Designated states: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR