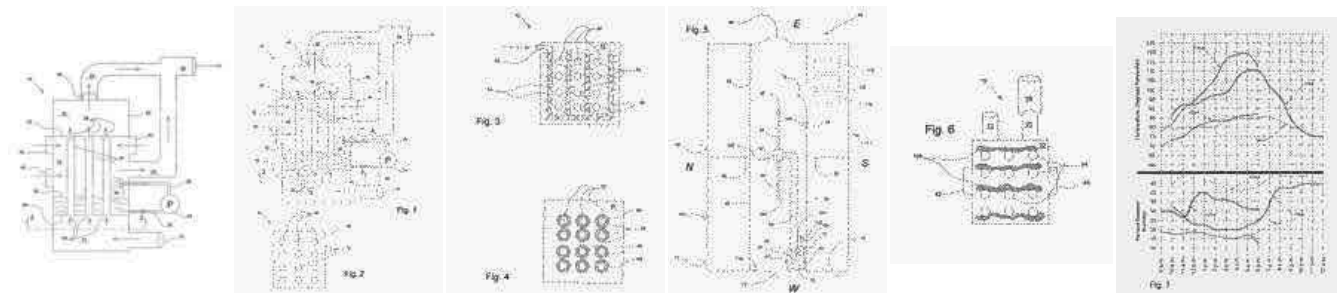
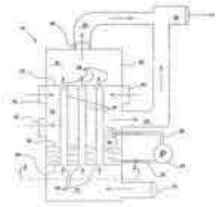


17 results for ( (cold or refrigeration)/TI/AB/IW/CLMS/TX/DESC/ODES/OBJ/ADB/ICLM/KEYW AND (chamber or cylinder)/TI/AB/IW/CLMS/DESC/ODES/OBJ/ADB/ICLM/KEYW/TX AND (expansion valve)/TI/AB/IW/CLMS/DESC/ODES/OBJ/ADB/ICLM/KEYW/TX AND (compressor)/TI/AB/IW/CLMS/DESC/ODES/OBJ/ADB/ICLM/KEYW/TX AND (spiral or coil+)/TI/AB/IW/CLMS/DESC/ODES/OBJ/ADB/ICLM/KEYW/TX AND (beverage+ or drink+)/TI/AB/IW/OBJ/ADB/ICLM ) AND (B60H-001)/IPC - Collection: FAMPAT

| #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Title                                                                                                                                              | Publication number | 1st app. date | Applicant/Assignee      | 1st publ. date | Publ. date |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------|-------------------------|----------------|------------|
| 1.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | System of drive of gas circulation soft drink for refrigeration of cold chamber of truck set in motion for hydraulic system of the automachine one | BRPI0905577        | 2009-12-22    | METALURGICA PELENS EPP* | 2011-08-23     | 2011-08-23 |
| SYSTEM OF DRIVE DE CIRCULAcAO DE GaS SOFT DRINK FOR Refrigeration DE COLD [CaMARA] DE CAMINHAcO SET IN MOTION FOR Hydraulic SYSTEM OF the AUTOMACHINE one Dealt With the present request invention to a system, of refrigeration developed especially for cold chamber of a truck, set in motion for a hydraulic engine through a mechanism connected to the engine, that uses its taking of force, located in the box of transmission of the same. The system inside has its functioning initiated for the gas circulation soft drink of the tubular filament by means of compressor, set in motion for a connected hydraulic system to the engine of the truck located in its box of transmission. |                                                                                                                                                    |                    |               |                         |                |            |
| 2.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Cooling assembly                                                                                                                                   | WO2004018953       | 2003-07-28    | GMP<br>GPM*<br>JIPIEMU  | 2004-03-04     | 2004-03-04 |

An apparatus for air conditioning the interior of a structure is shown which can be run entirely off a DC power source, such as a storage battery. A shell and tube heat exchanger is combined with a mechanical refrigeration system to provide a wet shell side and a dry tube side of the apparatus. In the operation of the air conditioner, a mass of distributed water is established on the wet shell side, and a flow of ambient air is passed through the dry tube side and a resulting stream of dry cooled air is recovered. The streams of moist and cooled air can either be combined or routed separately depending primarily upon the humidity of the surrounding environment to be cooled.



|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                    |           |            |            |            |            |
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| 3.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Dual-purpose refrigerator for use on an automobile | US5927091 | 1998-07-10 | MASCOTECH* | 1999-07-27 | 1999-07-27 |
| Disclosed is a dual-purpose refrigerator for use on an automobile mainly including a housing having an inner container therein. The inner container has a flat-type circulating pipe spirally wound about its upper outer surface and a closed water chamber formed at a lower part thereof. Two pipes extend from two ends of the circulating pipe to an air-conditioning compressor of the automobile via a multi-way flow control valve, and two pipes extend from the water chamber to an engine radiator of the automobile via the same multi-way flow control valve. The multi-way flow control valve is supplied with current to either open the pipes communicating the circulating pipe and the air-conditioning compressor for cool air from the compressor to flow into the circulating pipe to refrigerate the inner container, or open the pipes communicating the water chamber and the engine radiator for hot water from the engine radiator to flow into said water chamber to heat the inner container. A spout and a pumping device may be provided to the refrigerator to conveniently supply cold or hot water stored in an upper part of the inner container for drinking. |                                                    |           |            |            |            |            |

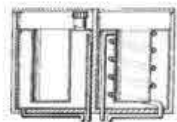
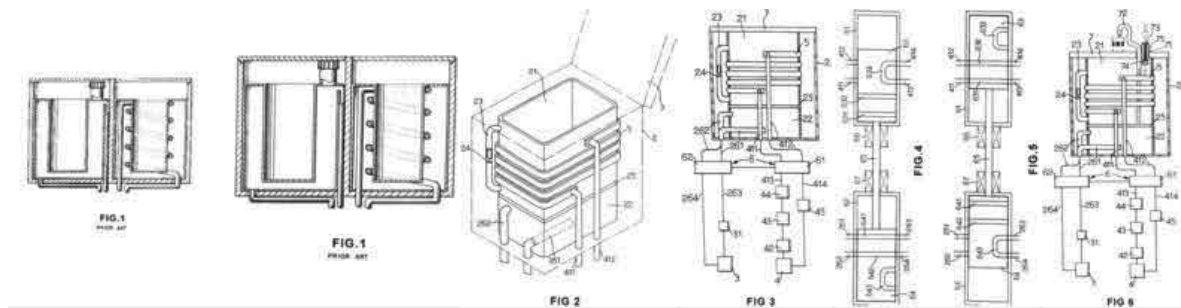
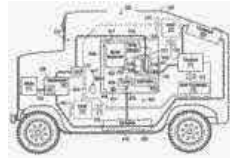
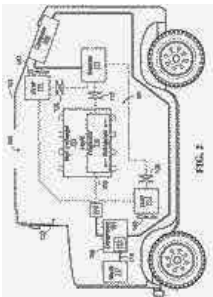
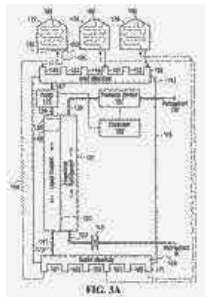
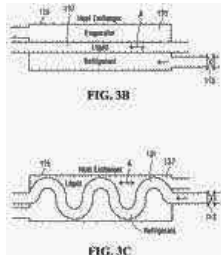
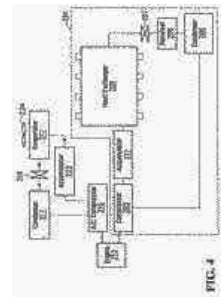
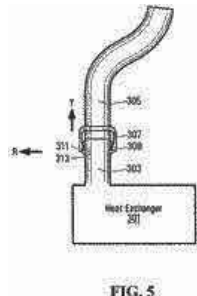
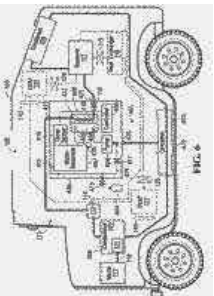
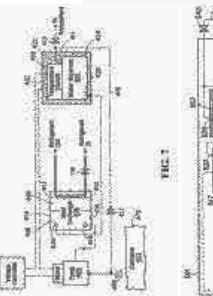
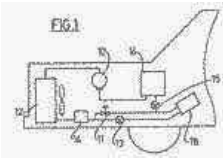
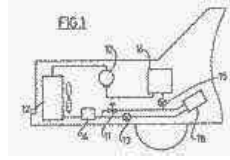
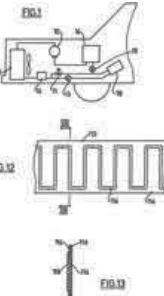
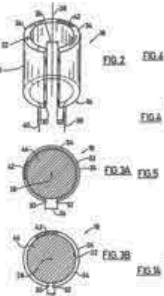
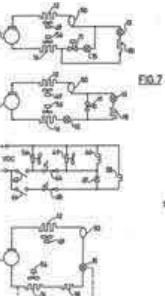
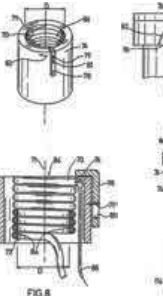
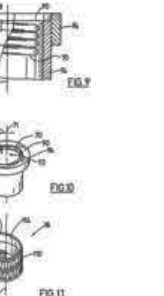
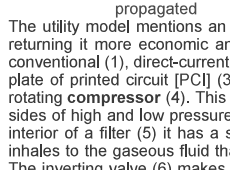
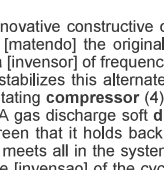
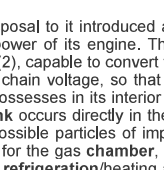
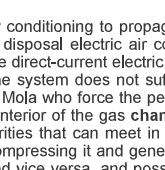
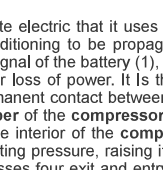
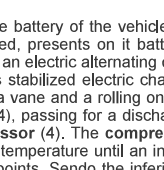
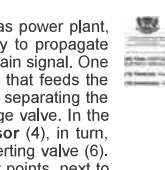


FIG. 1  
FRIG. AIR



|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                       |               |            |                                     |            |            |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|---------------|------------|-------------------------------------|------------|------------|
| 4.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Cooling and climate conditioning system for a vehicle | US20070193291 | 2007-02-14 | MEDICAL ENGINEERING*<br>SAFARILAND* | 2007-08-23 | 2007-08-23 |
| <p>A cooling system for a vehicle comprises a <b>compressor</b> for compressing refrigerant, the <b>compressor</b> being adapted to be driven by a power source installed in the vehicle, a condenser for receiving compressed refrigerant from the <b>compressor</b>, an expansion device for expanding refrigerant from the condenser, and a liquid-to-liquid heat exchanger for receiving refrigerant from the expansion device and exchanging heat between the refrigerant and a liquid. The liquid may comprise a coolant, and a pump may be provided for pumping the coolant through the heat exchanger to a point of use such as a cooling garment to cool personnel on board the vehicle. Alternatively, the liquid may be a <b>drinkable</b> liquid which is pumped through the heat exchanger to a suitable dispensing system to provide an on-board supply of cool <b>drinking</b> liquid.</p> |                                                       |               |            |                                     |            |            |
|                                                             |                                                       |               |            |                                     |            |            |
| 5.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Beverage cooling system                               | IL86105       | 1988-04-18 | LORDAN<br>LORDAN & CO*              | 1988-11-15 | 1988-11-15 |

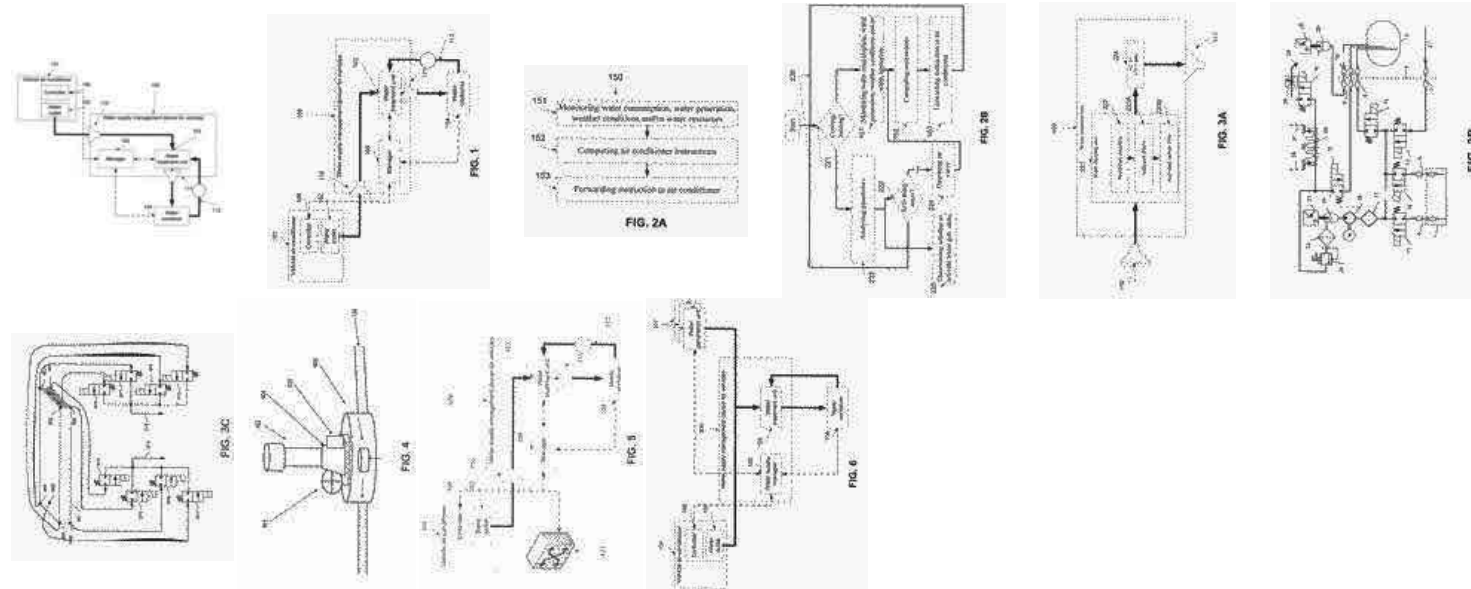
A vehicle having an integrated air conditioning system and **beverage** cooling system comprising apparatus for compressing a refrigerant fluid, first apparatus for receiving and evaporating the compressed refrigerant fluid, apparatus associated with the air conditioning system for circulating air across the first apparatus for receiving and evaporating, and second apparatus in heat conductive engagement with a **beverage** container for receiving and evaporating the compressed refrigerant fluid.

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                     |                |            |               |            |            |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|----------------|------------|---------------|------------|------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                     |                |            |               |            |            |
|                 |                                                     |                |            |               |            |            |
| 6.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Disposal electric air conditioning to be propagated | BR202012015053 | 2012-06-19 | BORILE WILMAR | 2013-01-15 | 2013-01-15 |

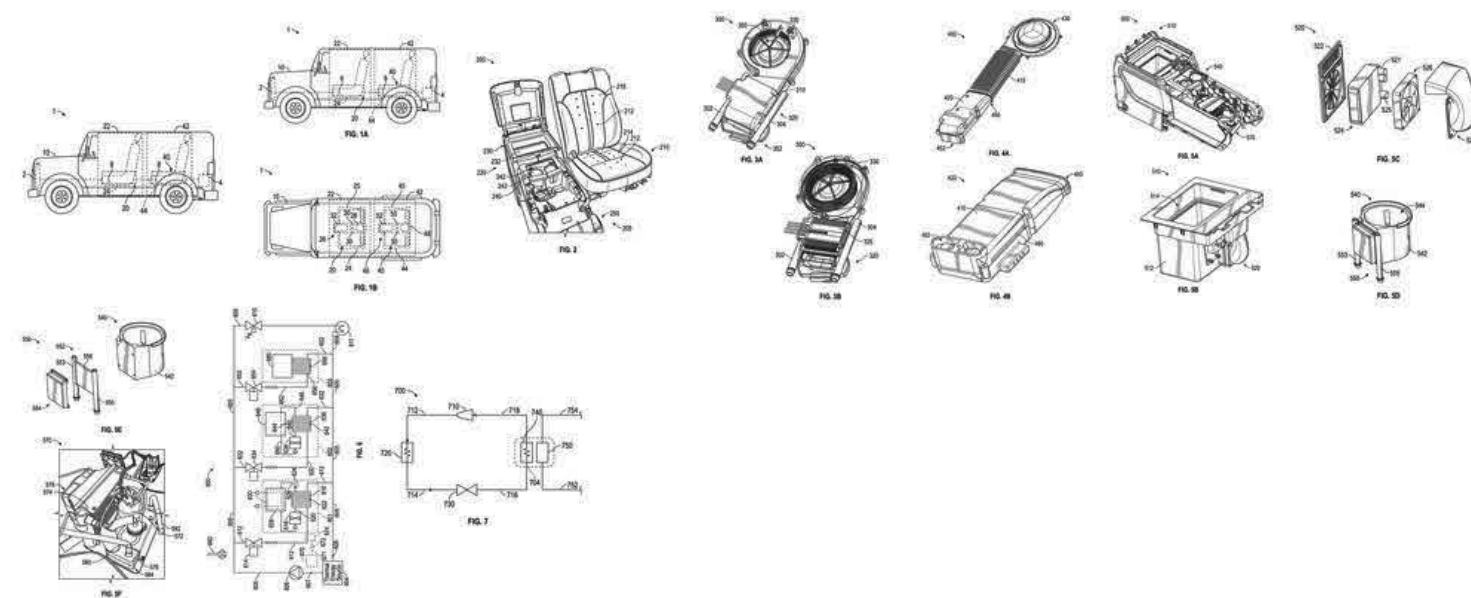
The utility model mentions an innovative constructive disposal to it introduced air conditioning to propagate electric that it uses the battery of the vehicle as power plant, returning it more economic and [matendo] the original power of its engine. The disposal electric air conditioning to be propagated, presents on it battery to propagate conventional (1), direct-current, a [inversor] of frequency (2), capable to convert the direct-current electric signal of the battery (1), in an electric alternating chain signal. One plate of printed circuit [PCI] (3) stabilizes this alternated chain voltage, so that the system does not suffer loss of power. It is this stabilized electric chain that feeds the rotating **compressor** (4). This rotating **compressor** (4) possesses in its interior a Mola who force the permanent contact between a vane and a rolling one, separating the sides of high and low pressure. A gas discharge soft **drink** occurs directly in the interior of the gas **chamber** of the **compressor** (4), passing for a discharge valve. In the interior of a filter (5) it has a screen that it holds back possible particles of impurities that can meet in the interior of the **compressor** (4). The **compressor** (4), in turn, inhales to the gaseous fluid that meets all in the system, for the gas **chamber**, compressing it and generating pressure, raising its temperature until an inverting valve (6). The inverting valve (6) makes the [inversao] of the cycle **refrigeration**/heating and vice versa, and possesses four exit and entry points, Sendo the inferior points, next to the extremities, on to a condenser (7) and an evaporator (8). Between the condenser (7) and the evaporator (8) a filter is disposed (9) that it makes the [purificacao] of the air that is inhaled for inside of the vehicle. The circuit of the air conditioning still possesses a relay auxiliary (the 10) that it makes the connection enters the plate of printed circuit (3), and electric functions of the panel of the car, already existing

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |  |  |  |  |  |
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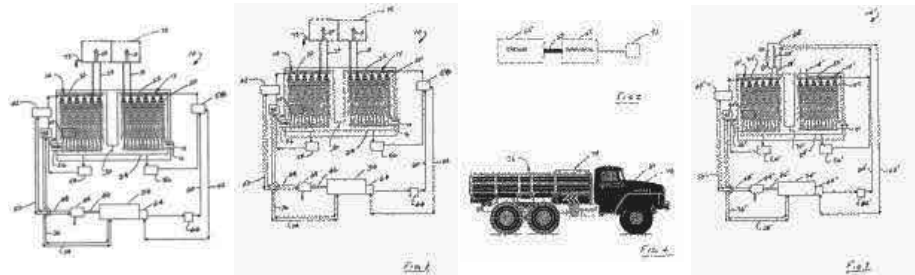
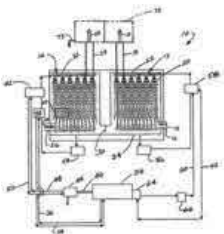


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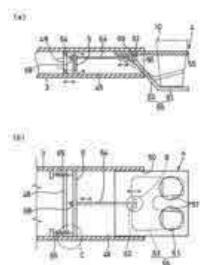
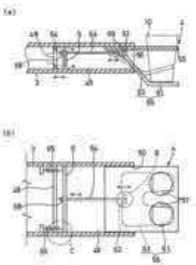
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|-----|---------------------------------------------------------|--------------|------------|-----------------------------------------------------------------|------------|------------|
| 12. | System and method for managing water content in a fluid | WO2006129200 | 2006-03-24 | ADIR SEGAL<br>COOL DU<br>DEE YOU COOL<br>DUCOOL*<br>FORKOSH DAN | 2006-12-07 | 2006-12-07 |
|-----|---------------------------------------------------------|--------------|------------|-----------------------------------------------------------------|------------|------------|

A system and method for managing water content in a fluid includes a collection **chamber** for collecting water from the fluid with a desiccant, and a regeneration **chamber** for collecting water from the desiccant. An evaporator is used to cool the collection **chamber**, and a **compressor** is used to compress refrigerant flowing through the evaporator. An engine powers the **compressor**, and also provides waste heat to the regeneration **chamber** to increase the amount of water expelled from the desiccant. Water from the desiccant is evaporated in air flowing through the regeneration **chamber**. Air leaving the regeneration **chamber** is cooled to extract the water for **drinking** or other uses.



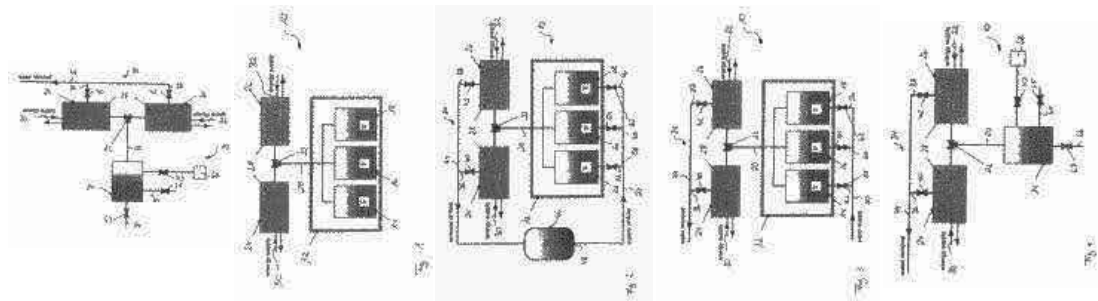
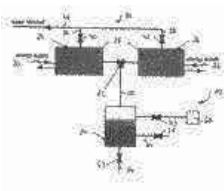
|     |                                        |              |            |        |            |            |
|-----|----------------------------------------|--------------|------------|--------|------------|------------|
| 13. | Cup holder air conditioner for vehicle | JP2004203341 | 2002-12-26 | DENSO* | 2004-07-22 | 2004-07-22 |
|-----|----------------------------------------|--------------|------------|--------|------------|------------|

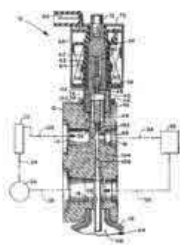
**PROBLEM TO BE SOLVED:** To provide a cup holder air conditioner for a vehicle capable of controlling the supply and shutoff of **cold** air or hot air to an inside deep part of a cup holder duct 3 through a connecting duct from an air blowing duct of a front air conditioning unit depending on whether a container 10 is held on a storage type cup holder 4 or not.  
**SOLUTION:** The state of a communicating port 48 blocked by a panel 5 is continued unless a container 10 of a **beverage** can, a paper cup, etc. is placed on a container receiver part 61 of a bottom surface holding part 56 of a storage type cup holder 4 even when a table 55 of the storage type cup holder 4 is drawn out in a vehicle room from an opening 50 of a cup holder duct 3, and consequently, no feeling of discomfort is given to the occupant as the **cold** air or the hot air is blown out to the inside of the vehicle room in spots from the opening 50 of the cup holder duct 3 and no temperature nonuniformity is generated in the room of the vehicle.  
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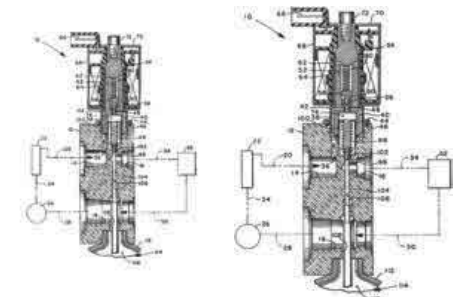


|     |                                                                     |              |            |                              |            |            |
|-----|---------------------------------------------------------------------|--------------|------------|------------------------------|------------|------------|
| 14. | Cooling system and method for cooling drinking water in an aircraft | WO2008061713 | 2007-11-20 | AIRBUS<br>AIRBUS OPERATIONS* | 2008-05-29 | 2008-05-29 |
|-----|---------------------------------------------------------------------|--------------|------------|------------------------------|------------|------------|

A cooling system (10) for cooling an aircraft device (12) comprises an evaporator (14, 16, 18) for receiving a fluid (F) which is to be evaporated, a first adsorber (24) which contains a medium (28) for the adsorption of the fluid (F) which is evaporated in the evaporator (14, 16, 18), as well as a second adsorber (26) which contains a medium for the adsorption of the fluid (F) which is evaporated in the evaporator (14, 16, 18). A control system (22) is adapted to establish or to interrupt a fluid connection between the evaporator (14, 16, 18) and the first and/or the second adsorber(s) (24, 26).



|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                     |           |            |                                                 |            |            |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------|------------|-------------------------------------------------|------------|------------|
| 15.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Thermostatic <b>expansion valve</b> with integral electrically operated inlet valve | EP0907057 | 1997-10-03 | EATON<br>PARKER HANNIFIN<br>PARKER INTANGIBLES* | 1999-04-07 | 1999-04-07 |
| <p>A mechanical thermostatic refrigerant <b>expansion valve</b> assembly (10) with an electrically operated shut-off in the inlet (14) to the valve body. Preferably, the electrical operator is a solenoid attached to the valve body (12) on the end opposite the mechanical thermal responsive valve actuator (114) so as to minimize the changes in the manufacturing of an existing valve body (12). The solenoid armature moves a secondary valving member (40) spring biased to shut off flow in the valve inlet (14). &lt;IMAGE&gt;</p> |                                                                                     |           |            |                                                 |            |            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                     |           |            |                                                 |            |            |



|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                     |         |            |                        |            |            |
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| 16.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Refrigeration system for motor cars | IL80805 | 1986-11-28 | LORDAN*<br>LORDAN & CO | 1987-02-27 | 1987-02-27 |
| <p>The invention relates to a <b>refrigeration</b> system for use in motor-cars equipped with an air-conditioning system. The <b>refrigeration</b> system comprises a metal cooling mantle through which a <b>cold</b> refrigerant is circulated, the size of the mantle being such as to closely fit a standard <b>beverage</b> can or bottle. Preferably, the mantle has a gap along one of its sides parallel to the axis, so that when there is circulated a refrigerant through the said mantle, the gap narrows or closes, thus establishing contact between the inner surface of the mantle and the <b>beverage</b> container. The cooling is rapid and takes up only a small part of the cooling capacity of the air-conditioning system.</p> |                                     |         |            |                        |            |            |

