

**CPC****COOPERATIVE PATENT CLASSIFICATION****B60H****ARRANGEMENTS OR ADAPTATIONS OF HEATING, COOLING, VENTILATING, OR OTHER AIR-TREATING DEVICES SPECIALLY FOR PASSENGER OR GOODS SPACES OF VEHICLES****NOTE**

Attention is drawn to the Note following the title of class [B60](#)

**B60H 1/00**

**Heating, cooling or ventilating devices** (heating, cooling or ventilating devices providing other air treatment, the other treatment being relevant, [B60H 3/00](#); ventilating solely by opening windows, doors, roof parts, or the like [B60J](#); heating or ventilating devices for vehicle seats [B60N 2/56](#); vehicle window or windscreen cleaners using air, e.g. defrosters, [B60S 1/54](#))

**NOTE**

In this group and its subgroups, as well as in patent documents, the following abbreviation is used: - HVAC Heating, Ventilating and Air Conditioning

- B60H 1/00007 . { Combined heating, ventilating, or cooling devices (control systems or mechanisms [B60H 1/00642](#)) }
- B60H 1/00014 . . {for load cargos on load transporting vehicles}
- B60H 1/00021 . . { Air flow details of the heating, ventilating and cooling [HVAC] devices }
- B60H 1/00028 . . . { Constructional lay-out of the devices in the vehicle }
- B60H 1/00035 . . . {for sending an air stream of uniform temperature into the passenger compartment }
- B60H 1/00042 . . . . {the air passing only one heat exchanger }
- B60H 1/0005 . . . . {the air being firstly cooled and subsequently heated or vice-versa }
- B60H 1/00057 . . . . {the air being heated and cooled simultaneously, e.g. using parallel heat exchangers }
- B60H 1/00064 . . . {for sending air streams of different temperatures into the passenger compartment }
- B60H 1/00071 . . . . {the air passing only one heat exchanger }
- B60H 2001/00078 . . . {Assembling, manufacturing or layout details }
- B60H 2001/00085 . . . . {of air intake }
- B60H 2001/00092 . . . . {of air deflecting or air directing means inside the device }
- B60H 2001/00099 . . . . {comprising additional ventilating means }
- B60H 2001/00107 . . . . {characterised by the relative position of the heat exchangers, e.g. arrangements leading to a curved airflow }
- B60H 2001/00114 . . . {Heating or cooling details }
- B60H 2001/00121 . . . . {More than one heat exchanger in parallel }
- B60H 2001/00128 . . . . {Electric heaters }

B60H 2001/00135	....	{Deviding walls for separate air flows }
B60H 2001/00142	....	{first heating and then cooling }
B60H 2001/0015	...	{Temperature regulation }
B60H 2001/00157	....	{without by-pass }
B60H 2001/00164	....	{with more than one by-pass }
B60H 2001/00171	....	{Valves on heaters for modulated liquid flow }
B60H 2001/00178	....	{comprising an air passage from the HVAC box to the exterior of the cabin }
B60H 2001/00185	...	{Distribution of conditionned air }
B60H 2001/00192	....	{to left and right part of passenger compartment }
B60H 2001/002	....	{to front and rear part of passenger compartment }
B60H 1/00207	..	{ characterised by the position of the HVAC devices with respect to the passenger compartment ( <a href="#">B60H 1/00021</a> takes precedence)}
B60H 2001/00214	...	{Devices in front of the passenger compartment }
B60H 2001/00221	...	{Devices in the floor or side wall area of the passenger compartment }
B60H 2001/00228	...	{Devices in the interior of the passenger compartment }
B60H 2001/00235	...	{Devices in the roof area of the passenger compartment }
B60H 2001/00242	...	{Devices in the rear area of the passenger compartment }
B60H 1/0025	.	{the devices being independent of the vehicle}
B60H 1/00257	..	{Non-transportable devices, disposed outside the vehicle, e.g. on a parking}
B60H 1/00264	..	{Transportable devices}
B60H 1/00271	.	{ Heating, cooling or ventilating devices specially adapted for particular vehicle parts or components and being connected to the vehicle HVAC unit}
B60H 1/00278	..	{for the battery ( <a href="#">arrangement of batteries B60R 16/04</a> )}
B60H 1/00285	..	{ for vehicle seats (vehicle seats with heating or ventilation means independent from the HVAC system of the vehicle <a href="#">B60N 2/56</a> )}
B60H 1/00292	..	{ for steering wheels (steering wheels with heating or ventilation means independent from the HVAC system of the vehicle <a href="#">B62D 1/065</a> )}
B60H 2001/003	..	{Component temperature regulation using an air flow }
B60H 2001/00307	..	{Component temperature regulation using a liquid flow }
B60H 1/00314	.	{Arrangements permitting a rapid heating of the heating liquid ( <a href="#">B60H 1/00492</a> , <a href="#">B60H 1/03</a> take precedence; aiding engine start by heating of engine coolants <a href="#">F02N 19/10</a> )}
B60H 1/00321	.	{Heat exchangers for air-conditioning devices ( <a href="#">B60H 1/3227</a> takes precedence)}
B60H 1/00328	..	{of the liquid-air type}
B60H 1/00335	..	{of the gas-air type ( <a href="#">B60H 1/18</a> takes precedence)}
B60H 1/00342	..	{ of the liquid-liquid type}
B60H 2001/0035	..	{movable in and out of the air stream }
B60H 1/00357	.	{Air-conditioning arrangements specially adapted for particular vehicles}
B60H 1/00364	..	{for caravans or trailers}

- B60H 1/00371 .. {for vehicles carrying large numbers of passengers e.g. buses}
- B60H 1/00378 .. {for tractor or load vehicle cabins}
- B60H 1/00385 .. {for vehicles having an electrical drive, e.g. hybrid or fuel cell}
- B60H 1/00392 ... { for electric vehicles having only electric drive means}
- B60H 1/004 ... { for vehicles having a combustion engine and electric drive means, e.g. hybrid electric vehicles}
- B60H 1/00407 .. { for open or convertible vehicles}
- B60H 1/00414 .. { for military, emergency, safety or security vehicles}
  
- B60H 1/00421 . {Driving arrangements for parts of a vehicle air-conditioning ([B60H 1/3222](#) takes precedence; auxiliary drives per se for vehicles [B60K 25/00](#))}
- B60H 1/00428 .. {electric}
- B60H 1/00435 .. {fluid or pneumatic}
- B60H 1/00442 ... {using a vacuum}
- B60H 1/0045 .. {mechanical power take-offs from the vehicle propulsion unit}
  
- B60H 1/00457 . {Ventilation unit, e.g. combined with a radiator ([control systems for ventilators B60H 1/00828](#))}
- B60H 1/00464 .. {The ventilator being of the axial type}
- B60H 1/00471 .. {The ventilator being of the radial type, i.e. with radial expulsion of the air}
  
- B60H 1/00478 . { Air-conditioning devices using the Peltier effect ([for air-conditioning in general F24F 5/00D](#); [for refrigeration F25B 21/02](#); electric devices exhibiting the Peltier effect [H01L 35/00](#))}
  
- B60H 1/00485 . {Valves for air-conditioning devices, e.g. thermostatic valves ([valves per se F16K](#); [thermostatic valves per se G05D 23/02](#))}
  
- B60H 1/00492 . {characterised by comprising regenerative heating or cooling means, e.g. heat accumulators}
- B60H 1/005 .. {Regenerative cooling means, e.g. cold accumulators}
  
- B60H 1/00507 . {Details, e.g. mounting arrangements, desaeration devices ([B60H 1/32](#) takes precedence)}
- B60H 1/00514 .. {Details of air conditioning housings}
- B60H 1/00521 ... {Mounting or fastening of components in housings, e.g. heat exchangers, fans, electronic regulators}
- B60H 1/00528 ... {Connections between housing parts}
- B60H 1/00535 ... {Mounting or fastening of the housing to the vehicle}
- B60H 1/00542 ... {Modular assemblies}
- B60H 1/0055 ... {the housing or parts thereof being integrated in other devices, e.g. dashboard}
- B60H 1/00557 .. {Details of ducts or cables}
- B60H 1/00564 ... {of air ducts}
- B60H 1/00571 ... {of liquid ducts, e.g. for coolant liquids or refrigerants}
- B60H 1/00578 ... {of bowden wires}

B60H 1/00585	..	{Means for monitoring, testing or servicing the air-conditioning}
B60H 1/00592	..	{Add-on devices, e.g. heat/cooling boxes, compartment dividers, upgrade sets}
B60H 2001/006	..	{Noise reduction }
B60H 2001/00607	..	{Recycling }
B60H 2001/00614	..	{Cooling of electronic units in air stream }
B60H 2001/00621	..	{Fastening lids on air-conditioning housings }
B60H 2001/00628	..	{Adaption for left or right hand drive }
B60H 2001/00635	..	{Air-tight sealing devices }
B60H 1/00642	.	{Control systems or circuits, control members or indication devices for heating, cooling or ventilating devices ( <a href="#">B60H 1/3201</a> - <a href="#">B60H 1/3208</a> , <a href="#">B60H 1/3225</a> take precedence; dashboards <a href="#">B60K 37/00</a> ; systems for controlling or regulating non-electric variables in general <a href="#">G05D</a> )}
B60H 1/0065	..	{Control members, e.g. levers or knobs ( <a href="#">B60H 1/00985</a> takes precedence)}
B60H 1/00657	...	{ Remote control devices}
B60H 1/00664	..	{Construction or arrangement of damper doors (control systems or circuits for damper doors <a href="#">B60H 1/00835</a> )}
B60H 1/00671	...	{Damper doors moved by rotation ; Grilles}
B60H 1/00678	....	{the axis of rotation being in the door plane, e.g. butterfly doors}
B60H 1/00685	....	{the door being a rotating disc or cylinder or part thereof ( <a href="#">B60H 1/00678</a> takes precedence)}
B60H 1/00692	...	{Damper doors moved by translation, e.g. curtain doors}
B60H 2001/007	...	{Manufacturing or assembling }
B60H 2001/00707	...	{Details of pivots of damper doors }
B60H 2001/00714	...	{Details of seals of damper doors }
B60H 2001/00721	...	{Air deflecting or air directing means }
B60H 2001/00728	...	{Film doors }
B60H 1/00735	..	{Control systems or circuits characterised by their input, i.e. by the detection, measurement or calculation of particular conditions, e.g. signal treatment, dynamic models}
B60H 1/00742	...	{by detection of the vehicle occupants` presence; by detection of conditions relating to the body of occupants, e.g. using radiant heat detectors}
B60H 1/0075	...	{the input being solar radiation}
B60H 1/00757	...	{by the input of sound, e.g. by using a voice synthesizer}
B60H 1/00764	...	{the input being a vehicle driving condition, e.g. speed ( <a href="#">B60H 1/00828</a> , <a href="#">B60H 1/00864</a> take precedence)}
B60H 1/00771	....	{ the input being a vehicle position or surrounding, e.g. GPS-based position or tunnel}
B60H 1/00778	....	{ the input being a stationary vehicle position, e.g. parking or stopping}
B60H 1/00785	...	{by the detection of humidity or frost}
B60H 1/00792	...	{Arrangement of detectors ( <a href="#">B60H 1/00742</a> , <a href="#">B60H 1/0075</a> , <a href="#">B60H 1/00785</a> take precedence)}
B60H 1/008	...	{ the input being air quality}

B60H 1/00807	...	{ the input being a specific way of measuring or calculating an air or coolant temperature}
B60H 1/00814	..	{Control systems or circuits characterised by their output, for controlling particular components of the heating, cooling or ventilating installation}
B60H 1/00821	...	{the components being ventilating, air admitting or air distributing devices}
B60H 1/00828	....	{Ventilators, e.g. speed control ( <a href="#">B60H 1/00864</a> takes precedence)}
B60H 1/00835	....	{Damper doors, e.g. position control (construction or arrangement of damper doors <a href="#">B60H 1/00664</a> ; <a href="#">B60H 1/00864</a> takes precedence)}
B60H 1/00842	.....	{the system comprising a plurality of damper doors; Air distribution between several outlets}
B60H 1/00849	.....	{for selectively commanding the induction of outside or inside air ( <a href="#">B60H 1/00842</a> takes precedence)}
B60H 1/00857	.....	{characterised by the means connecting the initiating means, e.g. control lever, to the damper door}
B60H 1/00864	....	{Ventilators and damper doors}
B60H 1/00871	....	{Air directing means, e.g. blades in an air outlet (construction of nozzles or air diffusers <a href="#">B60H 1/34</a> )}
B60H 1/00878	...	{the components being temperature regulating devices ( <a href="#">B60H 1/00899</a> takes precedence; constructions of valves <a href="#">B60H 1/00485</a> )}
B60H 1/00885	....	{Controlling the flow of heating or cooling liquid, e.g. valves or pumps ( <a href="#">B60H 1/00899</a> takes precedence; constructions of valves <a href="#">B60H 1/00485</a> )}
B60H 1/00892	....	{Devices specially adapted for avoiding uncomfortable feeling, e.g. sudden temperature changes ( <a href="#">B60H 1/00885</a> takes precedence)}
B60H 1/00899	....	{Controlling the flow of liquid in a heat pump system (controlling the properties of the refrigerant liquid, e.g. pressure or temperature, <a href="#">B60H 1/3204</a> )}
B60H 1/00907	.....	{where the flow direction of the refrigerant changes and an evaporator becomes condenser}
B60H 1/00914	.....	{where the flow direction of the refrigerant does not change and there is a bypass of the condenser}
B60H 1/00921	.....	{where the flow direction of the refrigerant does not change and there is an extra subcondenser, e.g. in an air duct}
B60H 2001/00928	....	{comprising a secondary circuit }
B60H 2001/00935	....	{comprising four way valves for controlling the fluid direction }
B60H 2001/00942	....	{comprising a plurality of heat exchangers, e.g. for multi zone heating or cooling }
B60H 2001/00949	....	{comprising additional heating/cooling sources, e.g. second evaporator }
B60H 2001/00957	....	{comprising locations with heat exchange within the refrigerant circuit itself, e.g. cross-, counter-, or parallel heat exchange }
B60H 1/00964	..	{Control systems or circuits characterised by including features for automatic and non-automatic control, e.g. for changing from automatic to manual control}
B60H 1/00971	..	{Control systems or circuits characterised by including features for locking or memorising of control modes}
B60H 1/00978	..	{Control systems or circuits characterised by failure of detection or safety means; Diagnostic methods}

- B60H 1/00985      ..      {Control systems or circuits characterised by display or indicating devices, e.g. voice simulators (characterised by the input of sound using a voice synthesizer [B60H 1/00757](#); [B60H 1/00978](#) takes precedence)}
- B60H 2001/00992      ..      {Calculations modifying a user set value }
- B60H 1/02            .      the heat being derived from the propulsion plant {([B60H 1/00492](#) takes precedence)}
- B60H 1/025          ..      {from both the cooling liquid and the exhaust gases of the propulsion plant}
- B60H 1/03            ..      and from a source other than the propulsion plant
- B60H 1/032          ...      {from the cooling liquid of the propulsion plant and from a burner}
- B60H 1/034          ...      {from the cooling liquid of the propulsion plant and from an electric heating device}
- B60H 1/036          ...      {from the plant exhaust gases and from a burner}
- B60H 1/038          ...      {from the cooling liquid of the propulsion plant and from a viscous fluid heater}
- B60H 1/04            ..      from cooling liquid of the plant {([B60H 1/025](#), [B60H 1/03](#) take precedence)}
- B60H 1/06            ...      directly from main radiator
- B60H 1/08            ...      from other radiator than main radiator
- B60H 1/10            ....      the other radiator being situated in a duct capable of being connected to atmosphere outside vehicle
- B60H 1/12            .....      using an air blower
- B60H 1/14            ..      otherwise than from cooling liquid of the plant {e.g. heat from the grease oil, the brakes, the transmission unit ([B60H 1/03](#) takes precedence)}
- B60H 1/143          ...      { the heat being derived from cooling an electric component, e.g. electric motors, electric circuits, fuel cells or batteries}
- B60H 2001/146      ...      {from a viscous fluid heater }
- B60H 1/16            ...      the air being heated by direct contact with the plant, e.g. air-cooled motor
- B60H 1/18            ...      the air being heated from the plant exhaust gases {([B60H 1/025](#) takes precedence; exhaust or silencing apparatus associated with devices profiting by exhaust energy [F01N 5/00](#))}
- B60H 1/20            ....      using an intermediate heat-transferring medium
- B60H 1/22            .      the heat being derived otherwise than from the propulsion plant {([B60H 1/0025](#), [B60H 1/00492](#) and [B60H 1/03](#) take precedence)}
- B60H 1/2203          ..      { the heat being derived from burners (burners in general [F23C](#), [F23D](#), [F24H 9/18](#))}
- B60H 1/2206          ...      { controlling the operation of burners (control of burners in general [F23N 5/00](#))}
- B60H 1/2209          ...      { arrangements of burners for heating an intermediate liquid ([B60H 1/032](#) takes precedence)}
- B60H 1/2212          ...      { arrangements of burners for heating air}
- B60H 1/2215          ..      { the heat being derived from electric heaters (in general [H05B](#); for electric traction vehicles [B60L 1/02](#))}
- B60H 1/2218          ...      { controlling the operation of electric heaters}
- B60H 1/2221          ...      { arrangements of electric heaters for heating an intermediate liquid ([B60H 1/034](#) takes precedence)}
- B60H 1/2225          ...      { arrangements of electric heaters for heating air}
- B60H 2001/2228      ..      {controlling the operation of heaters }

B60H 2001/2231	...	{for proper or safe operation of the heater }
B60H 2001/2234	...	{when vehicle is parked, preheating }
B60H 2001/2237	...	{supplementary heating, e.g. during stop and go of a vehicle }
B60H 2001/224	...	{automatic operation, e.g. control circuits or methods }
B60H 2001/2243	...	{manual operation, e.g. remote control or timer }
B60H 2001/2246	..	{obtaining information from a variable, e.g. by means of a sensor }
B60H 2001/225	...	{related to an operational state of another HVAC device }
B60H 2001/2253	...	{related to an operational state of the vehicle or a vehicle component }
B60H 2001/2256	...	{related to the operation of the heater itself, e.g. flame detection or overheating }
B60H 2001/2259	..	{output of a control signal }
B60H 2001/2262	...	{related to the period of on/off time of the heater }
B60H 2001/2265	...	{related to the quantity of heat produced by the heater }
B60H 2001/2268	..	{Constructional features }
B60H 2001/2271	...	{Heat exchangers, burners, ignition devices }
B60H 2001/2275	...	{Thermoelectric converters for generating electrical energy }
B60H 2001/2278	...	{Connectors, water supply, housing, mounting brackets }
B60H 2001/2281	...	{Air supply, exhaust systems }
B60H 2001/2284	...	{Fuel supply }
B60H 2001/2287	...	{Integration into a vehicle HVAC system or vehicle dashboard ( <a href="#">B60H 2001/00128</a> takes precedence)}
B60H 2001/229	...	{Integration into an air outlet }
B60H 2001/2293	...	{Integration into other parts of a vehicle }
B60H 2001/2296	...	{integration into fluid/air heat exchangers }
B60H 1/24	.	Devices purely for ventilating or where the heating or cooling is irrelevant ( <a href="#">nozzles, air-diffusers</a> <a href="#">B60H 1/34</a> )
B60H 1/241	..	{ characterised by the location of ventilation devices in the vehicle}
B60H 1/242	...	{ located in the front area}
B60H 1/243	...	{ located in the lateral area ( <a href="#">e.g. doors, pillars</a> )}
B60H 1/244	...	{ located in the rear area}
B60H 1/245	...	{ located in the roof}
B60H 1/246	...	{ located in the interior of the vehicle or in or below the floor}
B60H 1/247	..	{ Disposition of several air-diffusers in a vehicle for ventilation-air circulation in a vehicle cabin}
B60H 1/248	..	{Air-extractors, air-evacuation from the vehicle interior}
B60H 1/249	...	{using one-way valves}
B60H 1/26	..	Ventilating openings in vehicle exterior; Ducts for conveying ventilating air
B60H 1/262	...	{Openings in or on the vehicle roof}
B60H 1/265	...	{Openings in window or door past or pillars ( <a href="#">door pasts per se</a> <a href="#">B62D 25/14</a> ; <a href="#">B60H 1/248</a> takes precedence)}
B60H 1/267	...	{Openings in or near to vehicle windows ( <a href="#">pivoting side windows</a> <a href="#">B60J 1/14</a> ; <a href="#">wind deflectors associated with windows for ventilating</a> <a href="#">B60J 1/20</a> )}



B60H 1/28	...	the openings being situated directly in front of vehicle front window
B60H 1/30	...	Air scoops
B60H 1/32	.	Cooling devices ( <a href="#">B60H 1/00478</a> , <a href="#">B60H 1/005</a> take precedence; vehicles adapted to transport refrigerated goods <a href="#">B60P 3/20</a> )
B60H 1/3201	..	{using absorption or adsorption (in general <a href="#">F25B 15/00</a> , <a href="#">F25B 17/00</a> )}
B60H 1/3202	..	{using evaporation, i.e. not including a compressor, e.g. involving fuel or water evaporation ( <a href="#">B60H 1/3235</a> takes precedence; in general <a href="#">F25B 19/00</a> , <a href="#">F25D 7/00</a> )}
B60H 1/3204	..	{using compression ( <a href="#">B60H 1/3233</a> takes precedence; in general <a href="#">F25B</a> , <a href="#">F25D</a> )}
B60H 1/3205	...	{Control means therefor}
B60H 1/3207	....	{ for minimizing the humidity of the air}
B60H 1/3208	....	{Vehicle drive related control of the compressor drive means, e.g. for fuel saving purposes}
B60H 1/321	....	{ for preventing the freezing of a heat exchanger}
B60H 1/3211	....	{ for increasing the efficiency of a vehicle refrigeration cycle}
B60H 1/3213	....	{ for increasing the efficiency in a vehicle heat pump}
B60H 1/3214	....	{ for improving the lubrication of a refrigerant compressor in a vehicle}
B60H 1/3216	....	{ for improving a change in operation duty of a compressor in a vehicle}
B60H 1/3217	....	{ for high pressure, inflammable or poisonous refrigerants causing danger in case of accidents}
B60H 1/3219	....	{ for improving the response time of a vehicle refrigeration cycle}
B60H 1/322	....	{ for improving the stop or idling operation of the engine}
B60H 1/3222	...	{characterised by the compressor driving arrangements, e.g. clutches, transmissions or multiple drives ( <a href="#">B60H 1/3208</a> , <a href="#">B60H 1/3226</a> take precedence)}
B60H 1/3223	...	{characterised by the arrangement or type of the compressor ( <a href="#">B60H 1/3222</a> takes precedence)}
B60H 1/3225	...	{characterised by safety arrangements, e.g. compressor anti-seizure means or by signalling devices}
B60H 1/3226	...	{Self-contained devices, i.e. including own drive motor}
B60H 1/3227	...	{characterised by the arrangement or the type of heat exchanger, e.g. condenser, evaporator (condensed liquid drainage means <a href="#">B60H 1/3233</a> )}
B60H 1/3229	...	{characterised by constructional features, e.g. housings, mountings, conversion systems ( <a href="#">B60H 1/3227</a> , <a href="#">B60H 1/3233</a> take precedence)}
B60H 1/323	...	{characterised by comprising auxiliary or multiple systems, e.g. plurality of evaporators, or by involving auxiliary cooling devices}
B60H 1/3232	...	{particularly adapted for load transporting vehicles ( <a href="#">B60H 1/3226</a> takes precedence)}
B60H 1/3233	..	{characterised by condensed liquid drainage means}
B60H 1/3235	..	{using sublimation, e.g. dry ice cooling or melting ice}
B60H 2001/3236	..	{information from a variable is obtained }
B60H 2001/3238	...	{related to the operation of the compressor }
B60H 2001/3239	...	{related to flow }
B60H 2001/3241	....	{of air }



B60H 2001/3242	....	{of a refrigerant }
B60H 2001/3244	...	{related to humidity }
B60H 2001/3245	....	{of air }
B60H 2001/3247	....	{of a refrigerant }
B60H 2001/3248	...	{related to pressure }
B60H 2001/325	....	{of the refrigerant at a compressing unit }
B60H 2001/3251	....	{of the refrigerant at a condensing unit }
B60H 2001/3252	....	{of the refrigerant at an evaporating unit }
B60H 2001/3254	....	{of the refrigerant at an expansion unit }
B60H 2001/3255	...	{related to temperature }
B60H 2001/3257	....	{of the refrigerant at a compressing unit }
B60H 2001/3258	....	{of the air at a condensing unit }
B60H 2001/326	....	{of the refrigerant at a condensing unit }
B60H 2001/3261	....	{of the air at an evaporating unit }
B60H 2001/3263	....	{of the refrigerant at an evaporating unit }
B60H 2001/3264	....	{of the refrigerant at an expansion unit }
B60H 2001/3266	...	{related to the operation of the vehicle }
B60H 2001/3267	...	{related to the operation of an expansion valve }
B60H 2001/3269	..	{output of a control signal }
B60H 2001/327	...	{related to a compressing unit }
B60H 2001/3272	....	{to control the revolving speed of a compressor }
B60H 2001/3273	....	{related to the operation of the vehicle , e.g. the compressor driving torque }
B60H 2001/3275	....	{to control the volume of a compressor }
B60H 2001/3276	...	{related to a condensing unit }
B60H 2001/3277	....	{to control the air flow }
B60H 2001/3279	....	{to control the refrigerant flow }
B60H 2001/328	...	{related to an evaporating unit }
B60H 2001/3282	....	{to control the air flow }
B60H 2001/3283	....	{to control the refrigerant flow }
B60H 2001/3285	...	{related to an expansion unit }
B60H 2001/3286	..	{Constructional features }
B60H 2001/3288	...	{Additional heat source }
B60H 2001/3289	...	{Additional cooling source }
B60H 2001/3291	...	{Locations with heat exchange within the refrigerant circuit itself }
B60H 2001/3292	...	{Compressor drive is electric only }
B60H 2001/3294	...	{Compressor drive is hybrid }
B60H 2001/3295	...	{Compressing means other than compressor }
B60H 2001/3297	...	{Expansion means other than expansion valve }
B60H 2001/3298	...	{Ejector-type refrigerant circuits }

- B60H 1/34 . Nozzles; { Air-diffusers }(dispositions of air diffusers in a vehicle [B60H 1/247](#))
- B60H 1/3407 .. {providing an air stream in a fixed direction, e.g. using a grid or porous panel}
- B60H 1/3414 .. {with means for adjusting the air stream direction ([B60H 1/345](#) takes precedence)}
- B60H 1/3421 ... {using only pivoting shutters}
- B60H 1/3428 ... {using a set of pivoting shutters and a pivoting frame}
- B60H 1/3435 ... {using only a pivoting frame}
- B60H 1/3442 .... {the frame being spherical}
- B60H 1/345 .. {with means for adjusting divergence, convergence or oscillation of air stream}
- B60H 1/3457 .. { Outlets providing a vortex, i.e. a spirally wound air flow}
- B60H 2001/3464 .. {Details of hinges }
- B60H 2001/3471 .. {Details of actuators }
- B60H 2001/3478 ... {acting on additional damper doors }
- B60H 2001/3485 .. {Air temperature regulation }
- B60H 2001/3492 .. {Manufacturing; Assembling }

**B60H 3/00****Other air-treating devices**

- B60H 3/0007 . {Adding substances other than water to the air, e.g. perfume, oxygen}
- B60H 3/0014 .. { characterised by the location of the substance adding device}
- B60H 3/0021 ... { in the air-conditioning housing}
- B60H 3/0028 ... { on or near an air outlet}
- B60H 3/0035 .. { characterised by the control methods for adding the substance}
- B60H 2003/0042 .. {with ventilating means for adding the substances }
- B60H 2003/005 .. {with heating means for adding the substances }
- B60H 2003/0057 .. {Servicing means therefor, e.g. for renewal of substances }
- B60H 2003/0064 .. {adding more than one substance }
  
- B60H 3/0071 . {Electrically conditioning the air, e.g. by ionizing}
- B60H 3/0078 .. {comprising electric purifying means}
  
- B60H 3/0085 . {Smell or pollution preventing arrangements }( [B60H 3/0007](#), [B60H 3/0071](#), [B60H 3/02](#), [B60H 3/06](#) take precedence)
- B60H 3/0092 .. { in the interior of the HVAC unit, e.g. by spraying substances inside the unit}
  
- B60H 3/02 . Moistening; { Devices influencing humidity levels, i.e. humidity control ([B60H 1/3202](#), [B60H 1/3207](#) take precedence)}
- B60H 3/022 .. { for only humidifying the air}
- B60H 3/024 .. { for only dehumidifying the air}
- B60H 2003/026 .. {the devices being located in the passenger compartment }
- B60H 2003/028 .. {the devices comprising regeneration means }
  
- B60H 3/06 . Filtering {( [B60H 3/0078](#) takes precedence)}

B60H 3/0608	..	{Filter arrangements in the air stream}
B60H 3/0616	...	{with provisions for replacing the filter element}
B60H 3/0625	...	{with provisions for by-passing the filter element}
B60H 3/0633	...	{with provisions for regenerating or cleaning the filter element}
B60H 3/0641	...	{near ventilating openings in the vehicle exterior}
B60H 2003/065	...	{Details for holding filter elements in position }
B60H 3/0658	..	{ Filter elements specially adapted for their arrangement in vehicles ( <a href="#">B60H 3/0608</a> takes precedence)}
B60H 2003/0666	...	{the filter element having non-rectangular shape }
B60H 2003/0675	..	{Photocatalytic filters }
B60H 2003/0683	..	{the quality of the filter or the air being checked }
B60H 2003/0691	..	{Adsorption filters, e.g. activated carbon }