

# CPC COOPERATIVE PATENT CLASSIFICATION

## B PERFORMING OPERATIONS; TRANSPORTING (NOTES omitted)

### TRANSPORTING

#### B60 VEHICLES IN GENERAL (NOTE omitted)

#### B60H ARRANGEMENTS OF HEATING, COOLING, VENTILATING OR OTHER AIR-TREATING DEVICES SPECIALLY ADAPTED FOR PASSENGER OR GOODS SPACES OF VEHICLES

##### NOTE

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

##### WARNING

In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

<b>1/00</b>	<b>Heating, cooling or ventilating <a href="#">[HVAC]</a> devices</b> (heating, cooling or ventilating devices providing other air treatment, the other treatment being relevant, <a href="#">B60H 3/00</a> ; ventilating solely by opening windows, doors, roof parts, or the like <a href="#">B60J</a> ; heating or ventilating devices for vehicle seats <a href="#">B60N 2/56</a> ; vehicle window or windscreen cleaners using air, e.g. defrosters, <a href="#">B60S 1/54</a> )	2001/00114 . . . {Heating or cooling details}
		2001/00121 . . . . {More than one heat exchanger in parallel}
		2001/00128 . . . . {Electric heaters}
		2001/00135 . . . . {Deviding walls for separate air flows}
		2001/00142 . . . . {first heating and then cooling}
		2001/0015 . . . {Temperature regulation}
		2001/00157 . . . . {without by-pass}
		2001/00164 . . . . {with more than one by-pass}
		2001/00171 . . . . {Valves on heaters for modulated liquid flow}
		2001/00178 . . . . {comprising an air passage from the HVAC box to the exterior of the cabin}
		2001/00185 . . . {Distribution of conditioned air}
		2001/00192 . . . . {to left and right part of passenger compartment}
		2001/002 . . . . {to front and rear part of passenger compartment}
1/00007 .	{Combined heating, ventilating, or cooling devices (control systems or mechanisms <a href="#">B60H 1/00642</a> )}	1/00207 . . {characterised by the position of the HVAC devices with respect to the passenger compartment ( <a href="#">B60H 1/00021</a> takes precedence)}
1/00014 . .	{for load cargos on load transporting vehicles}	2001/00214 . . . {Devices in front of the passenger compartment}
1/00021 . .	{Air flow details of HVAC devices}	2001/00221 . . . {Devices in the floor or side wall area of the passenger compartment}
1/00028 . . .	{Constructional lay-out of the devices in the vehicle}	2001/00228 . . . {Devices in the interior of the passenger compartment}
1/00035 . . .	{for sending an air stream of uniform temperature into the passenger compartment}	2001/00235 . . . {Devices in the roof area of the passenger compartment}
1/00042 . . . .	{the air passing only one heat exchanger}	2001/00242 . . . {Devices in the rear area of the passenger compartment}
1/0005 . . . .	{the air being firstly cooled and subsequently heated or <i>vice versa</i> }	1/0025 . . {the devices being independent of the vehicle}
1/00057 . . . .	{the air being heated and cooled simultaneously, e.g. using parallel heat exchangers}	1/00257 . . {Non-transportable devices, disposed outside the vehicle, e.g. on a parking}
1/00064 . . .	{for sending air streams of different temperatures into the passenger compartment}	1/00264 . . {Transportable devices}
1/00071 . . . .	{the air passing only one heat exchanger}	1/00271 . . {HVAC devices specially adapted for particular vehicle parts or components and being connected to the vehicle HVAC unit}
2001/00078 . . .	{Assembling, manufacturing or layout details}	
2001/00085 . . . .	{of air intake}	
2001/00092 . . . .	{of air deflecting or air directing means inside the device}	
2001/00099 . . . .	{comprising additional ventilating means}	
2001/00107 . . . .	{characterised by the relative position of the heat exchangers, e.g. arrangements leading to a curved airflow}	

- 1/00278 . . {for the battery ([arrangement of batteries B60R 16/04](#))}
- 1/00285 . . {for vehicle seats ([vehicle seats with heating or ventilation means independent from the HVAC system of the vehicle B60N 2/56](#))}
- 1/00292 . . {for steering wheels ([steering wheels with heating or ventilation means independent from the HVAC system of the vehicle B62D 1/065](#))}
- 1/00295 . . {for trim components, e.g. panels, dashboards, liners}
- 2001/003 . . {Component temperature regulation using an air flow}
- 2001/00307 . . {Component temperature regulation using a liquid flow}
- 1/00314 . {Arrangements permitting a rapid heating of the heating liquid ([B60H 1/00492](#), [B60H 1/03](#) take precedence; [aiding engine start by heating of engine coolants F02N 19/10](#))}
- 1/00321 . {Heat exchangers for air-conditioning devices ([B60H 1/3227](#) takes precedence)}
- 1/00328 . . {of the liquid-air type}
- 1/00335 . . {of the gas-air type ([B60H 1/18](#) takes precedence)}
- 1/00342 . . {of the liquid-liquid type}
- 2001/0035 . . {movable in and out of the air stream}
- 1/00357 . {Air-conditioning arrangements specially adapted for particular vehicles}
- 1/00364 . . {for caravans or trailers}
- 1/00371 . . {for vehicles carrying large numbers of passengers, e.g. buses}
- 1/00378 . . {for tractor or load vehicle cabins}
- 1/00385 . . {for vehicles having an electrical drive, e.g. hybrid or fuel cell}
- 1/00392 . . . {for electric vehicles having only electric drive means}
- 1/004 . . . {for vehicles having a combustion engine and electric drive means, e.g. hybrid electric vehicles}
- 1/00407 . . {for open or convertible vehicles}
- 1/00414 . . {for military, emergency, safety or security vehicles}
- 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](#))}
- 1/00428 . . {electric}
- 1/00435 . . {fluid or pneumatic}
- 1/00442 . . . {using a vacuum}
- 1/0045 . . {mechanical power take-offs from the vehicle propulsion unit}
- 1/00457 . {Ventilation unit, e.g. combined with a radiator ([control systems for ventilators B60H 1/00828](#))}
- 1/00464 . . {The ventilator being of the axial type}
- 1/00471 . . {The ventilator being of the radial type, i.e. with radial expulsion of the air}
- 1/00478 . {Air-conditioning devices using the Peltier effect ([for air-conditioning in general F24F 5/0042](#); [for refrigeration F25B 21/02](#); [electric devices exhibiting the Peltier effect H10N 10/00](#))}
- 1/00485 . {Valves for air-conditioning devices, e.g. thermostatic valves ([valves per se F16K](#); [thermostatic valves per se G05D 23/02](#))}
- 1/00492 . {comprising regenerative heating or cooling means, e.g. heat accumulators}
- 1/00499 . . {Heat or cold storage without phase change including solid bodies, e.g. batteries}
- 1/005 . . {Regenerative cooling means, e.g. cold accumulators}
- 1/00507 . {Details, e.g. mounting arrangements, desaeration devices ([B60H 1/32](#) takes precedence)}
- 1/00514 . . {Details of air conditioning housings}
- 1/00521 . . . {Mounting or fastening of components in housings, e.g. heat exchangers, fans, electronic regulators}
- 1/00528 . . . {Connections between housing parts}
- 1/00535 . . . {Mounting or fastening of the housing to the vehicle}
- 1/00542 . . . {Modular assemblies}
- 1/0055 . . . {the housing or parts thereof being integrated in other devices, e.g. dashboard}
- 1/00557 . . {Details of ducts or cables}
- 1/00564 . . . {of air ducts}
- 1/00571 . . . {of liquid ducts, e.g. for coolant liquids or refrigerants}
- 1/00578 . . . {of bowden wires}
- 1/00585 . . {Means for monitoring, testing or servicing the air-conditioning}
- 1/00592 . . {Add-on devices, e.g. heat/cooling boxes, compartment dividers, upgrade sets}
- 2001/006 . . {Noise reduction}
- 2001/00607 . . {Recycling}
- 2001/00614 . . {Cooling of electronic units in air stream}
- 2001/00621 . . {Fastening lids on air-conditioning housings}
- 2001/00628 . . {Adaption for left or right hand drive}
- 2001/00635 . . {Air-tight sealing devices}
- 1/00642 . {Control systems or circuits; Control members or indication devices for heating, cooling or ventilating devices ([B60H 1/3201](#) - [B60H 1/3208](#), [B60H 1/3225](#) take precedence)}
- 1/0065 . . {Control members, e.g. levers or knobs ([B60H 1/00985](#) takes precedence)}
- 1/00657 . . . {Remote control devices}
- 1/00664 . . {Construction or arrangement of damper doors ([control systems or circuits for damper doors B60H 1/00835](#))}
- 1/00671 . . . {Damper doors moved by rotation; Grilles}
- 1/00678 . . . . {the axis of rotation being in the door plane, e.g. butterfly doors}
- 1/00685 . . . . {the door being a rotating disc or cylinder or part thereof ([B60H 1/00678](#) takes precedence)}
- 1/00692 . . . {Damper doors moved by translation, e.g. curtain doors}
- 2001/007 . . . {Manufacturing or assembling}
- 2001/00707 . . . {Details of pivots of damper doors}
- 2001/00714 . . . {Details of seals of damper doors}
- 2001/00721 . . . {Air deflecting or air directing means}
- 2001/00728 . . . {Film doors}
- 1/0073 . . {Control systems or circuits characterised by particular algorithms or computational models, e.g. fuzzy logic or dynamic models}
- 2001/00733 . . . {Computational models modifying user-set values}
- 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}

- 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}
- 1/0075 . . . {the input being solar radiation}
- 1/00757 . . . {by the input of sound, e.g. by using a voice synthesizer}
- 1/00764 . . . {the input being a vehicle driving condition, e.g. speed ([B60H 1/00828](#), [B60H 1/00864](#) take precedence)}
- 1/00771 . . . {the input being a vehicle position or surrounding, e.g. GPS-based position or tunnel}
- 1/00778 . . . {the input being a stationary vehicle position, e.g. parking or stopping}
- 1/00785 . . . {by the detection of humidity or frost}
- 1/00792 . . . {Arrangement of detectors ([B60H 1/00742](#), [B60H 1/0075](#), [B60H 1/00785](#) take precedence)}
- 1/008 . . . {the input being air quality}
- 1/00807 . . . {the input being a specific way of measuring or calculating an air or coolant temperature}
- 1/00814 . . . {Control systems or circuits characterised by their output, for controlling particular components of the heating, cooling or ventilating installation}
- 1/00821 . . . {the components being ventilating, air admitting or air distributing devices}
- 1/00828 . . . {Ventilators, e.g. speed control ([B60H 1/00864](#) takes precedence)}
- 1/00835 . . . {Damper doors, e.g. position control (construction or arrangement of damper doors [B60H 1/00664](#); [B60H 1/00864](#) takes precedence)}
- 1/00842 . . . {the system comprising a plurality of damper doors; Air distribution between several outlets}
- 1/00849 . . . {for selectively commanding the induction of outside or inside air ([B60H 1/00842](#) takes precedence)}
- 1/00857 . . . {characterised by the means connecting the initiating means, e.g. control lever, to the damper door}
- 1/00864 . . . {Ventilators and damper doors}
- 1/00871 . . . {Air directing means, e.g. blades in an air outlet (construction of nozzles or air diffusers [B60H 1/34](#))}
- 1/00878 . . . {the components being temperature regulating devices}
- 1/00885 . . . {Controlling the flow of heating or cooling liquid, e.g. valves or pumps ([B60H 1/00899](#) takes precedence; constructions of valves [B60H 1/00485](#))}
- 1/00892 . . . {Devices specially adapted for avoiding uncomfortable feeling, e.g. sudden temperature changes ([B60H 1/00885](#) takes precedence)}
- 1/00899 . . . {Controlling the flow of liquid in a heat pump system (controlling the properties of the refrigerant liquid, e.g. pressure or temperature, [B60H 1/3204](#))}
- 1/00907 . . . {where the flow direction of the refrigerant changes and an evaporator becomes condenser}
- 1/00914 . . . {where the flow direction of the refrigerant does not change and there is a bypass of the condenser}
- 1/00921 . . . {where the flow direction of the refrigerant does not change and there is an extra subcondenser, e.g. in an air duct}
- 2001/00928 . . . {comprising a secondary circuit}
- 2001/00935 . . . {comprising four way valves for controlling the fluid direction}
- 2001/00942 . . . {comprising a plurality of heat exchangers, e.g. for multi zone heating or cooling}
- 2001/00949 . . . {comprising additional heating/cooling sources, e.g. second evaporator}
- 2001/00957 . . . {comprising locations with heat exchange within the refrigerant circuit itself, e.g. cross-, counter-, or parallel heat exchange}
- 2001/00961 . . . {comprising means for defrosting outside heat exchangers}
- 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}
- 1/00971 . . . {Control systems or circuits characterised by including features for locking or memorising of control modes}
- 1/00978 . . . {Control systems or circuits characterised by failure of detection or safety means; Diagnostic methods}
- 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)}
- 1/02 . . . the heat being derived from the propulsion plant ([B60H 1/00492](#) takes precedence)}
- 1/025 . . . {from both the cooling liquid and the exhaust gases of the propulsion plant}
- 1/03 . . . and from a source other than the propulsion plant
- 1/032 . . . {from the cooling liquid of the propulsion plant and from a burner}
- 1/034 . . . {from the cooling liquid of the propulsion plant and from an electric heating device}
- 1/036 . . . {from the plant exhaust gases and from a burner}
- 1/038 . . . {from the cooling liquid of the propulsion plant and from a viscous fluid heater}
- 1/039 . . . {from air leaving the interior of the vehicle, i.e. heat recovery}
- 1/04 . . . from cooling liquid of the plant ([B60H 1/025](#), [B60H 1/03](#) take precedence)}
- 1/06 . . . directly from main radiator
- 1/08 . . . from other radiator than main radiator
- 1/10 . . . the other radiator being situated in a duct capable of being connected to atmosphere outside vehicle
- 1/12 . . . using an air blower
- 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)}
- 1/143 . . . {the heat being derived from cooling an electric component, e.g. electric motors, electric circuits, fuel cells or batteries}
- 2001/146 . . . {from a viscous fluid heater}

1/16	. . . the air being heated by direct contact with the plant, e.g. air-cooled motor	2001/2296	. . . {integration into fluid/air heat exchangers}
1/18	. . . the air being heated from the plant exhaust gases { <a href="#">(B60H 1/025 takes precedence; exhaust or silencing apparatus associated with devices profiting by exhaust energy F01N 5/00)</a> }	1/24	. Devices purely for ventilating or where the heating or cooling is irrelevant ( <a href="#">nozzles, air-diffusers B60H 1/34</a> )
1/20	. . . . using an intermediate heat-transferring medium	1/241	. . {characterised by the location of ventilation devices in the vehicle}
1/22	. the heat being derived otherwise than from the propulsion plant { <a href="#">(B60H 1/0025, B60H 1/00492 and B60H 1/03 take precedence)</a> }	1/242	. . . {located in the front area}
1/2203	. . {the heat being derived from burners (burners in general <a href="#">F23C, F23D, F24H 9/18</a> )}	1/243	. . . {located in the lateral area (e.g. doors, pillars)}
1/2206	. . . {controlling the operation of burners (control of burners in general <a href="#">F23N 5/00</a> )}	1/244	. . . {located in the rear area}
1/2209	. . . {arrangements of burners for heating an intermediate liquid ( <a href="#">B60H 1/032 takes precedence</a> )}	1/245	. . . {located in the roof}
1/2212	. . . {arrangements of burners for heating air}	1/246	. . . {located in the interior of the vehicle or in or below the floor}
1/2215	. . {the heat being derived from electric heaters}	1/247	. . {Disposition of several air-diffusers in a vehicle for ventilation-air circulation in a vehicle cabin}
1/2218	. . . {controlling the operation of electric heaters}	1/248	. . {Air-extractors, air-evacuation from the vehicle interior}
1/2221	. . . {arrangements of electric heaters for heating an intermediate liquid ( <a href="#">B60H 1/034 takes precedence</a> )}	1/249	. . . {using one-way valves}
1/2225	. . . {arrangements of electric heaters for heating air}	1/26	. . Ventilating openings in vehicle exterior; Ducts for conveying ventilating air
1/2226	. . . {Electric heaters using radiation}	1/262	. . . {Openings in or on the vehicle roof}
1/2227	. . . {Electric heaters incorporated in vehicle trim components, e.g. panels or linings}	1/265	. . . {Openings in window or door posts or pillars ( <a href="#">B60H 1/248 takes precedence; door posts per se B62D 25/04</a> )}
2001/2228	. . {controlling the operation of heaters}	1/267	. . . {Openings in or near to vehicle windows (pivoting side windows <a href="#">B60J 1/14</a> ; wind deflectors associated with windows for ventilating <a href="#">B60J 1/20</a> )}
2001/2231	. . . {for proper or safe operation of the heater}	1/28	. . . the openings being situated directly in front of vehicle front window
2001/2234	. . . {when vehicle is parked, preheating}	1/30	. . . Air scoops
2001/2237	. . . {supplementary heating, e.g. during stop and go of a vehicle}	1/32	. Cooling devices {( <a href="#">B60H 1/00478, B60H 1/005 take precedence;</a> ) vehicles adapted to transport refrigerated goods <a href="#">B60P 3/20</a> }
2001/224	. . . {automatic operation, e.g. control circuits or methods}	1/3201	. . . {using absorption or adsorption}
2001/2243	. . . {manual operation, e.g. remote control or timer}	1/32011	. . . {using absorption, e.g. using Li-Br and water}
2001/2246	. . {obtaining information from a variable, e.g. by means of a sensor}	1/32014	. . . {using adsorption, e.g. using Zeolite and water}
2001/225	. . . {related to an operational state of another HVAC device}	1/3202	. . {using evaporation, i.e. not including a compressor, e.g. involving fuel or water evaporation ( <a href="#">B60H 1/3235 takes precedence; in general F25B 19/00, F25D 7/00</a> )}
2001/2253	. . . {related to an operational state of the vehicle or a vehicle component}	1/3204	. . {using compression ( <a href="#">B60H 1/3233 takes precedence</a> )}
2001/2256	. . . {related to the operation of the heater itself, e.g. flame detection or overheating}	1/3205	. . . {Control means therefor}
2001/2259	. . {output of a control signal}	1/3207	. . . . {for minimizing the humidity of the air}
2001/2262	. . . {related to the period of on/off time of the heater}	1/3208	. . . . {Vehicle drive related control of the compressor drive means, e.g. for fuel saving purposes}
2001/2265	. . . {related to the quantity of heat produced by the heater}	1/321	. . . . {for preventing the freezing of a heat exchanger}
2001/2268	. . {Constructional features}	1/3211	. . . . {for increasing the efficiency of a vehicle refrigeration cycle}
2001/2271	. . . {Heat exchangers, burners, ignition devices}	1/3213	. . . . {for increasing the efficiency in a vehicle heat pump}
2001/2275	. . . {Thermoelectric converters for generating electrical energy}	1/3214	. . . . {for improving the lubrication of a refrigerant compressor in a vehicle}
2001/2278	. . . {Connectors, water supply, housing, mounting brackets}	1/3216	. . . . {for improving a change in operation duty of a compressor in a vehicle}
2001/2281	. . . {Air supply, exhaust systems}	1/3217	. . . . {for high pressure, inflammable or poisonous refrigerants causing danger in case of accidents}
2001/2284	. . . {Fuel supply}	1/3219	. . . . {for improving the response time of a vehicle refrigeration cycle}
2001/2287	. . . {Integration into a vehicle HVAC system or vehicle dashboard ( <a href="#">B60H 2001/00128 takes precedence</a> )}	1/322	. . . . {for improving the stop or idling operation of the engine}
2001/229	. . . {Integration into an air outlet}		
2001/2293	. . . {Integration into other parts of a vehicle}		



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 take precedence</a> )}	2001/3273	. . . . {related to the operation of the vehicle, e.g. the compressor driving torque}
1/3223	. . . {characterised by the arrangement or type of the compressor ( <a href="#">B60H 1/3222 takes precedence</a> )}	2001/3275	. . . . {to control the volume of a compressor}
1/3225	. . . {characterised by safety arrangements, e.g. compressor anti-seizure means or by signalling devices}	2001/3276	. . . {related to a condensing unit}
1/3226	. . . {Self-contained devices, i.e. including own drive motor}	2001/3277	. . . . {to control the air flow}
1/3227	. . . {characterised by the arrangement or the type of heat exchanger, e.g. condenser, evaporator ( <a href="#">condensed liquid drainage means B60H 1/3233</a> )}	2001/3279	. . . . {to control the refrigerant flow}
1/3228	. . . {characterised by refrigerant circuit configurations}	2001/328	. . . {related to an evaporating unit}
1/32281	. . . . {comprising a single secondary circuit, e.g. at evaporator or condenser side}	2001/3282	. . . . {to control the air flow}
1/32284	. . . . {comprising two or more secondary circuits, e.g. at evaporator and condenser side}	2001/3283	. . . . {to control the refrigerant flow}
1/3229	. . . {characterised by constructional features, e.g. housings, mountings, conversion systems ( <a href="#">B60H 1/3227</a> , <a href="#">B60H 1/3233 take precedence</a> )}	2001/3285	. . . {related to an expansion unit}
1/323	. . . {characterised by comprising auxiliary or multiple systems, e.g. plurality of evaporators, or by involving auxiliary cooling devices}	2001/3286	. . {Constructional features}
1/3232	. . . {particularly adapted for load transporting vehicles ( <a href="#">B60H 1/3226 takes precedence</a> )}	2001/3288	. . . {Additional heat source}
1/3233	. . {characterised by condensed liquid drainage means}	2001/3289	. . . {Additional cooling source}
1/32331	. . . {comprising means for the use of condensed liquid, e.g. for humidification or for improving condenser performance}	2001/3291	. . . {Locations with heat exchange within the refrigerant circuit itself}
1/3235	. . {using sublimation, e.g. dry ice cooling or melting ice}	2001/3292	. . . {Compressor drive is electric only}
2001/3236	. . {information from a variable is obtained}	2001/3294	. . . {Compressor drive is hybrid}
2001/3238	. . . {related to the operation of the compressor}	2001/3295	. . . {Compressing means other than compressor}
2001/3239	. . . {related to flow}	2001/3297	. . . {Expansion means other than expansion valve}
2001/3241	. . . . {of air}	2001/3298	. . . {Ejector-type refrigerant circuits}
2001/3242	. . . . {of a refrigerant}	1/34	. Nozzles; {Air-diffusers}( <a href="#">dispositions of air diffusers in a vehicle B60H 1/247</a> )
2001/3244	. . . {related to humidity}	1/3407	. . {providing an air stream in a fixed direction, e.g. using a grid or porous panel}
2001/3245	. . . . {of air}	1/3414	. . {with means for adjusting the air stream direction ( <a href="#">B60H 1/345 takes precedence</a> )}
2001/3247	. . . . {of a refrigerant}	1/3421	. . . {using only pivoting shutters}
2001/3248	. . . {related to pressure}	1/3428	. . . {using a set of pivoting shutters and a pivoting frame}
2001/325	. . . . {of the refrigerant at a compressing unit}	1/3435	. . . {using only a pivoting frame}
2001/3251	. . . . {of the refrigerant at a condensing unit}	1/3442	. . . . {the frame being spherical}
2001/3252	. . . . {of the refrigerant at an evaporating unit}	1/345	. . {with means for adjusting divergence, convergence or oscillation of air stream}
2001/3254	. . . . {of the refrigerant at an expansion unit}	1/3457	. . {Outlets providing a vortex, i.e. a spirally wound air flow}
2001/3255	. . . {related to temperature}	2001/3464	. . {Details of hinges}
2001/3257	. . . . {of the refrigerant at a compressing unit}	2001/3471	. . {Details of actuators}
2001/3258	. . . . {of the air at a condensing unit}	2001/3478	. . . {acting on additional damper doors}
2001/326	. . . . {of the refrigerant at a condensing unit}	2001/3485	. . {Air temperature regulation}
2001/3261	. . . . {of the air at an evaporating unit}	2001/3492	. . {Manufacturing; Assembling}
2001/3263	. . . . {of the refrigerant at an evaporating unit}	<b>3/00</b>	<b>Other air-treating devices</b>
2001/3264	. . . . {of the refrigerant at an expansion unit}	3/0007	. {Adding substances other than water to the air, e.g. perfume, oxygen}
2001/3266	. . . {related to the operation of the vehicle}	3/0014	. . {characterised by the location of the substance adding device}
2001/3267	. . . {related to the operation of an expansion valve}	3/0021	. . . {in the air-conditioning housing}
2001/3269	. . {output of a control signal}	3/0028	. . . {on or near an air outlet}
2001/327	. . . {related to a compressing unit}	3/0035	. . {characterised by the control methods for adding the substance}
2001/3272	. . . . {to control the revolving speed of a compressor}	2003/0042	. . {with ventilating means for adding the substances}
		2003/005	. . {with heating means for adding the substances}
		2003/0057	. . {Servicing means therefor, e.g. for renewal of substances}
		2003/0064	. . {adding more than one substance}
		3/0071	. {Electrically conditioning the air, e.g. by ionizing}
		3/0078	. . {comprising electric purifying means}
		3/0085	. {Smell or pollution preventing arrangements ( <a href="#">B60H 3/0007</a> , <a href="#">B60H 3/0071</a> , <a href="#">B60H 3/02</a> , <a href="#">B60H 3/06 take precedence</a> )}
		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](#))}
- 3/022 . . {for only humidifying the air}
- 3/024 . . {for only dehumidifying the air}
- 2003/026 . . {the devices being located in the passenger compartment}
- 2003/028 . . {the devices comprising regeneration means}
- 3/06 . Filtering {([B60H 3/0078 takes precedence](#))}
- 3/0608 . . {Filter arrangements in the air stream}
- 3/0616 . . . {with provisions for replacing the filter element}
- 3/0625 . . . {with provisions for by-passing the filter element}
- 3/0633 . . . {with provisions for regenerating or cleaning the filter element}
- 3/0641 . . . {near ventilating openings in the vehicle exterior}
- 2003/065 . . . {Details for holding filter elements in position}
- 3/0658 . . {Filter elements specially adapted for their arrangement in vehicles ([B60H 3/0608 takes precedence](#))}
- 2003/0666 . . . {the filter element having non-rectangular shape}
- 2003/0675 . . {Photocatalytic filters}
- 2003/0683 . . {the quality of the filter or the air being checked}
- 2003/0691 . . {Adsorption filters, e.g. activated carbon}