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.

1/00 Heating, cooling or ventilating {[HVAC]} 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

1/00007 . {Combined heating, ventilating, or cooling devices (control systems or mechanisms B60H 1/00642)}
1/00014 . . {for load cargos on load transporting vehicles}
1/00021 . . {Air flow details of HVAC devices}
1/00028 . . . {Constructional lay-out of the devices in the vehicle}
1/00035 . . . {for sending an air stream of uniform temperature into the passenger compartment}
1/00042 . . . . {the air passing only one heat exchanger}
1/0005 . . . . {the air being firstly cooled and subsequently heated or vice versa}
1/00057 . . . . {the air being heated and cooled simultaneously, e.g. using parallel heat exchangers}
1/00064 . . . {for sending air streams of different temperatures into the passenger compartment}
1/00071 . . . . {the air passing only one heat exchanger}
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}
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 conditionned air}
2001/00192 . . . . {to left and right part of passenger compartment}
2001/002 . . . . {to front and rear part of passenger compartment}
1/00207 . . {characterised by the position of the HVAC devices with respect to the passenger compartment (B60H 1/00021 takes precedence)}
2001/00214 . . . {Devices in front of the passenger compartment}
2001/00221 . . . {Devices in the floor or side wall area of the passenger compartment}
2001/00228 . . . {Devices in the interior of the passenger compartment}
2001/00235 . . . {Devices in the roof area of the passenger compartment}
2001/00242 . . . {Devices in the rear area of the passenger compartment}
1/0025 . {the devices being independent of the vehicle}
1/00257 . . {Non-transportable devices, disposed outside the vehicle, e.g. on a parking}
1/00264 . . {Transportable devices}
1/00271 . {HVAC devices specially adapted for particular vehicle parts or components and being connected to the vehicle HVAC unit}

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

1/3222 . . . {characterised by the compressor driving arrangements, e.g. clutches, transmissions or multiple drives (B60H 1/3208, B60H 1/3226 take precedence)}
1/3223 . . . {characterised by the arrangement or type of the compressor (B60H 1/3222 takes precedence)}
1/3225 . . . {characterised by safety arrangements, e.g. compressor anti-seizure means or by signalling devices}
1/3226 . . . {Self-contained devices, i.e. including own drive motor}
1/3227 . . . {characterised by the arrangement or the type of heat exchanger, e.g. condenser, evaporator (condensed liquid drainage means B60H 1/3233)}
1/3228 . . . {characterised by refrigerant circuit configurations}
1/32281 . . . . {comprising a single secondary circuit, e.g. at evaporator or condenser side}
1/32284 . . . . {comprising two or more secondary circuits, e.g. at evaporator and condenser side}
1/3229 . . . {characterised by constructional features, e.g. housings, mountings, conversion systems (B60H 1/3227, B60H 1/3233 take precedence)}
1/323 . . . {characterised by comprising auxiliary or multiple systems, e.g. plurality of evaporators, or by involving auxiliary cooling devices}
1/3232 . . . {particularly adapted for load transporting vehicles (B60H 1/3226 takes precedence)}
1/3233 . . {characterised by condensed liquid drainage means}
1/32331 . . . {comprising means for the use of condensed liquid, e.g. for humidification or for improving condenser performance}
1/3235 . . {using sublimation, e.g. dry ice cooling or melting ice}
2001/3236 . . {information from a variable is obtained}
2001/3238 . . . {related to the operation of the compressor}
2001/3239 . . . {related to flow}
2001/3241 . . . . {of air}
2001/3242 . . . . {of a refrigerant}
2001/3244 . . . {related to humidity}
2001/3245 . . . . {of air}
2001/3247 . . . . {of a refrigerant}
2001/3248 . . . {related to pressure}
2001/325 . . . . {of the refrigerant at a compressing unit}
2001/3251 . . . . {of the refrigerant at a condensing unit}
2001/3252 . . . . {of the refrigerant at an evaporating unit}
2001/3254 . . . . {of the refrigerant at an expansion unit}
2001/3255 . . . {related to temperature}
2001/3257 . . . . {of the refrigerant at a compressing unit}
2001/3258 . . . . {of the air at a condensing unit}
2001/326 . . . . {of the refrigerant at a condensing unit}
2001/3261 . . . . {of the air at an evaporating unit}
2001/3263 . . . . {of the refrigerant at an evaporating unit}
2001/3264 . . . . {of the refrigerant at an expansion unit}
2001/3266 . . . {related to the operation of the vehicle}
2001/3267 . . . {related to the operation of an expansion valve}
2001/3269 . . {output of a control signal}
2001/327 . . . {related to a compressing unit}
2001/3272 . . . . {to control the revolving speed of a compressor}
2001/3273 . . . . {related to the operation of the vehicle, e.g. the compressor driving torque}
2001/3275 . . . . {to control the volume of a compressor}
2001/3276 . . . {related to a condensing unit}
2001/3277 . . . . {to control the air flow}
2001/3279 . . . . {to control the refrigerant flow}
2001/328 . . . {related to an evaporating unit}
2001/3282 . . . . {to control the air flow}
2001/3283 . . . . {to control the refrigerant flow}
2001/3285 . . . {related to an expansion unit}
2001/3286 . . {Constructional features}
2001/3288 . . . {Additional heat source}
2001/3289 . . . {Additional cooling source}
2001/3291 . . . {Locations with heat exchange within the refrigerant circuit itself}
2001/3292 . . . {Compressor drive is electric only}
2001/3294 . . . {Compressor drive is hybrid}
2001/3295 . . . {Compressing means other than compressor}
2001/3297 . . . {Expansion means other than expansion valve}
2001/3298 . . . {Ejector-type refrigerant circuits}
1/34 . Nozzles; {Air-diffusers}(dispositions of air diffusers in a vehicle B60H 1/247)
1/3407 . . {providing an air stream in a fixed direction, e.g. using a grid or porous panel}
1/3414 . . {with means for adjusting the air stream direction (B60H 1/345 takes precedence)}
1/3421 . . . {using only pivoting shutters}
1/3428 . . . {using a set of pivoting shutters and a pivoting frame}
1/3435 . . . {using only a pivoting frame}
1/3442 . . . . {the frame being spherical}
1/345 . . {with means for adjusting divergence, convergence or oscillation of air stream}
1/3457 . . {Outlets providing a vortex, i.e. a spirally wound air flow}
2001/3464 . . {Details of hinges}
2001/3471 . . {Details of actuators}
2001/3478 . . . {acting on additional damper doors}
2001/3485 . . {Air temperature regulation}
2001/3492 . . {Manufacturing; Assembling}

3/00 Other air-treating devices

3/0007 . {Adding substances other than water to the air, e.g. perfume, oxygen}
3/0014 . . {characterised by the location of the substance adding device}
3/0021 . . . {in the air-conditioning housing}
3/0028 . . . {on or near an air outlet}
3/0035 . . {characterised by the control methods for adding the substance}
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 (B60H 3/0007, B60H 3/0071, B60H 3/02, B60H 3/06 take precedence)}
3/0092 . . {in the interior of the HVAC unit, e.g. by spraying substances inside the unit}

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}