

# CPC COOPERATIVE PATENT CLASSIFICATION

## B PERFORMING OPERATIONS; TRANSPORTING

(NOTES omitted)

### TRANSPORTING

#### B60 VEHICLES IN GENERAL

(NOTE omitted)

#### 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](#)

**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

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 the heating, ventilating and cooling [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 conditioned 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 . {Heating, cooling or ventilating 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](#))}

- 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 [H01L 35/00](#))}
  - 1/00485 . {Valves for air-conditioning devices, e.g. thermostatic valves (valves [per se](#) [F16K](#); thermostatic valves [per se](#) [G05D 23/02](#))}
  - 1/00492 . {characterised by comprising regenerative heating or cooling means, e.g. heat accumulators}
  - 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; dashboards [B60K 37/00](#); systems for controlling or regulating non-electric variables in general [G05D](#))}
  - 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}
  - 1/00735 . . {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 ([B60H 1/00899](#) takes precedence; constructions of valves [B60H 1/00485](#))}
- 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}
- 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)}
- 2001/00992 . . {Calculations modifying a user set value}
- 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}
- 1/04 . . 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 (in general [H05B](#); for electric traction vehicles [B60L 1/02](#))}
- 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}
- 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 past or pillars (door pasts per se [B62D 25/14](#); [B60H 1/248](#) takes precedence)}
- 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 (in general [F25B 15/00](#), [F25B 17/00](#))}
- 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; in general [F25B](#), [F25D](#))}
- 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, inflammable 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](#))}
- 1/3229 . . . {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}	1/3428	. . . {using a set of pivoting shutters and a pivoting frame}
1/3232	. . . {particularly adapted for load transporting vehicles ( <a href="#">B60H 1/3226 takes precedence</a> )}	1/3435	. . . {using only a pivoting frame}
1/3233	. . {characterised by condensed liquid drainage means}	1/3442	. . . {the frame being spherical}
1/3235	. . {using sublimation, e.g. dry ice cooling or melting ice}	1/345	. . {with means for adjusting divergence, convergence or oscillation of air stream}
2001/3236	. . {information from a variable is obtained}	1/3457	. . {Outlets providing a vortex, i.e. a spirally wound air flow}
2001/3238	. . . {related to the operation of the compressor}	2001/3464	. . {Details of hinges}
2001/3239	. . . {related to flow}	2001/3471	. . {Details of actuators}
2001/3241	. . . . {of air}	2001/3478	. . . {acting on additional damper doors}
2001/3242	. . . . {of a refrigerant}	2001/3485	. . {Air temperature regulation}
2001/3244	. . . {related to humidity}	2001/3492	. . {Manufacturing; Assembling}
2001/3245	. . . . {of air}		
2001/3247	. . . . {of a refrigerant}	<b>3/00</b>	<b>Other air-treating devices</b>
2001/3248	. . . {related to pressure}	3/0007	. {Adding substances other than water to the air, e.g. perfume, oxygen}
2001/325	. . . . {of the refrigerant at a compressing unit}	3/0014	. . {characterised by the location of the substance adding device}
2001/3251	. . . . {of the refrigerant at a condensing unit}	3/0021	. . . {in the air-conditioning housing}
2001/3252	. . . . {of the refrigerant at an evaporating unit}	3/0028	. . . {on or near an air outlet}
2001/3254	. . . . {of the refrigerant at an expansion unit}	3/0035	. . {characterised by the control methods for adding the substance}
2001/3255	. . . {related to temperature}	2003/0042	. . {with ventilating means for adding the substances}
2001/3257	. . . . {of the refrigerant at a compressing unit}	2003/005	. . {with heating means for adding the substances}
2001/3258	. . . . {of the air at a condensing unit}	2003/0057	. . {Servicing means therefor, e.g. for renewal of substances}
2001/326	. . . . {of the refrigerant at a condensing unit}	2003/0064	. . {adding more than one substance}
2001/3261	. . . . {of the air at an evaporating unit}	3/0071	. {Electrically conditioning the air, e.g. by ionizing}
2001/3263	. . . . {of the refrigerant at an evaporating unit}	3/0078	. . {comprising electric purifying means}
2001/3264	. . . {related to the operation of the vehicle}	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> )}
2001/3267	. . {related to the operation of an expansion valve}	3/0092	. . {in the interior of the HVAC unit, e.g. by spraying substances inside the unit}
2001/3269	. . {output of a control signal}	3/02	. Moistening {; Devices influencing humidity levels, i.e. humidity control ( <a href="#">B60H 1/3202</a> , <a href="#">B60H 1/3207 take precedence</a> )}
2001/327	. . {related to a compressing unit}	3/022	. . {for only humidifying the air}
2001/3272	. . . . {to control the revolving speed of a compressor}	3/024	. . {for only dehumidifying the air}
2001/3273	. . . . {related to the operation of the vehicle, e.g. the compressor driving torque}	2003/026	. . {the devices being located in the passenger compartment}
2001/3275	. . . . {to control the volume of a compressor}	2003/028	. . {the devices comprising regeneration means}
2001/3276	. . . {related to a condensing unit}	3/06	. Filtering { ( <a href="#">B60H 3/0078 takes precedence</a> )}
2001/3277	. . . . {to control the air flow}	3/0608	. . {Filter arrangements in the air stream}
2001/3279	. . . . {to control the refrigerant flow}	3/0616	. . . {with provisions for replacing the filter element}
2001/328	. . . {related to an evaporating unit}	3/0625	. . . {with provisions for by-passing the filter element}
2001/3282	. . . . {to control the air flow}	3/0633	. . . {with provisions for regenerating or cleaning the filter element}
2001/3283	. . . . {to control the refrigerant flow}	3/0641	. . . {near ventilating openings in the vehicle exterior}
2001/3285	. . . {related to an expansion unit}	2003/065	. . . {Details for holding filter elements in position}
2001/3286	. . {Constructional features}	3/0658	. . {Filter elements specially adapted for their arrangement in vehicles ( <a href="#">B60H 3/0608 takes precedence</a> )}
2001/3288	. . . {Additional heat source}	2003/0666	. . . {the filter element having non-rectangular shape}
2001/3289	. . . {Additional cooling source}	2003/0675	. . {Photocatalytic filters}
2001/3291	. . . {Locations with heat exchange within the refrigerant circuit itself}	2003/0683	. . {the quality of the filter or the air being checked}
2001/3292	. . . {Compressor drive is electric only}	2003/0691	. . {Adsorption filters, e.g. activated carbon}
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} ( <a href="#">dispositions of air diffusers in a vehicle B60H 1/247</a> )		
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 ( <a href="#">B60H 1/345 takes precedence</a> )}		
1/3421	. . . {using only pivoting shutters}		