

Title (en)
HIGH PERFORMANCE AUTOMOTIVE HVAC ARCHITECTURE

Title (de)
AUFBAU EINER HEIZUNGS-, LÜFTUNGS- UND KLIMAAANLAGE MIT HOHER LEISTUNGSFÄHIGKEIT FÜR KRAFTFAHRZEUGE

Title (fr)
ARCHITECTURE CVC D'AUTOMOBILE A HAUT RENDEMENT

Publication
EP 1238235 A1 20020911 (EN)

Application
EP 00983740 A 20001122

Priority
• US 0032002 W 20001122
• US 16731099 P 19991124

Abstract (en)
[origin: WO0138803A1] An automotive climate control system (200) is disclosed having heating (216, 218) and cooling (214) elements located at the exits of separate air ducts (206A, 206B). The elements (214, 216 and 218) are positioned at the end of the ducts closest to the occupants to reduce thermal losses in the system (200). The system (200) has a heating element (216, 218) positioned in a separate duct from the cooling element (214), which allows the system (200) to dispense heated air through certain air outlets and cool air through other air outlets simultaneously. The cooling element (214) is located in a duct (206B) spaced above the heating element (216, 218) to benefit from the physics of hot air rising and cool air sinking. The system (200) has the heating element (216, 218) and the cooling element (214) in parallel ducts (206A, 206B) to reduce the overall pressure drop of the system (200).

IPC 1-7
F25B 29/00; B60H 1/00; B60K 37/00

IPC 8 full level
B60H 1/00 (2006.01)

CPC (source: EP)
B60H 1/00057 (2013.01); **B60H 2001/00078** (2013.01); **B60H 2001/00128** (2013.01); **B60H 2001/00135** (2013.01)

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)
WO 0138803 A1 20010531; **WO 0138803 A9 20020510**; AU 2045501 A 20010604; CA 2392677 A1 20010531; EP 1238235 A1 20020911; EP 1238235 A4 20050209

DOCDB simple family (application)
US 0032002 W 20001122; AU 2045501 A 20001122; CA 2392677 A 20001122; EP 00983740 A 20001122