

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

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Application

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Priority

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- 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).

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