

Title (en)
COOLING SYSTEM FOR TESTING LIFETIME OF HYBRID POWER VEHICLE CONTROLLER

Title (de)
KÜHLSYSTEM ZUM TESTEN DER LEBENSDAUER EINER HYBRIDFAHRZEUGSTEUERUNG

Title (fr)
SYSTÈME DE REFROIDISSEMENT POUR TESTER LA DURÉE DE VIE D'UN ORGANE DE COMMANDE DE VÉHICULE À ÉNERGIE HYBRIDE

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Application
EP 09827170 A 20091116

Priority

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Abstract (en)
A cooling system for testing lifetime of hybrid power vehicle controller is provided. The cooling system comprises a control unit(8), a plurality of flow control valves(1), a water pump(4), a diverter(2), many condensers(3), a water tank(5) and a plurality of cooling benches(6) with temperature sensors. The control unit(8) receives temperature signals from temperature sensors of the cooling benches(6), and sends control signals to the water pump(4), the flow control valves (1) and the diverter(2) in order to control the operation of the water pump(4), the flow control valves(1) and the diverter (2). The cooling water that is pumped from the water tank(5) by water pump(4) is split and carried to the flow control valves(1) and flow to the cooling benches(6) that are communicated with the flow control valves(1). The cooling water flowing through the cooling benches(6) is converged into the diverter (2), and is then fed back to the water tank(5) after flowing through one or several condensers(3). The cooling system of the present invention is realized in water circulation cooling method. The control unit has reliable temperature control means for each cooling bench, so as to ensure that all of the components to be cooled, which includes a vehicle controller and a motor, can operate within the temperature range required for their respective testing.

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