

Title (en)
Method for the control of an engine supercharging system, control system, computer program product, storage medium and an engine supercharging system

Title (de)
Verfahren zur Steuerung eines Motoraufadesystems, Steuersystem, Computerprogramm, Speichermedium und Motoraufadesystem

Title (fr)
Procédé de contrôle d'un système de suralimentation de moteur, système de contrôle, produit de programme informatique, support de stockage et système de suralimentation de moteur

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Abstract (en)
The invention starts from a method for the control of an engine supercharging system for a charge fluid with a low-temperature coolant circuit for indirect cooling of the charge fluid and a high-temperature coolant circuit. The low-temperature coolant circuit comprises a low-temperature pump and at least one heat exchanger for the charge fluid and a low-temperature radiator. The high-temperature coolant circuit comprises a high-temperature pump and a map-controlled thermostat and a high-temperature radiator. At least one radiator fan associated with a low-temperature radiator and/or the high-temperature radiator. According to the concept of the invention, for optimum operation within the framework of comprehensive thermal management it is provided that the thermostat, the radiator fan, the high-temperature pump and the low-temperature pump are controlled as actuators of a control system. The invention leads to a corresponding control system, a computer program product and an engine supercharging system.

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Citation (applicant)

- US 6244256 B1 20010612 - WALL JOHN C [US], et al
- DE 60024390 T2 20060817 - CUMMINS INC [US], et al

Citation (search report)

- [XY] EP 0499071 A1 19920819 - BEHR GMBH & CO [DE]
- [Y] US 2006005790 A1 20060112 - BRAUN MARCO [DE], et al
- [Y] US 6079536 A 20000627 - HUMMEL WERNER [DE], et al
- [Y] DE 10062534 A1 20010712 - CATERPILLAR INC [US]
- [Y] WO 2005012707 A1 20050210 - BEHR GMBH & CO KG [DE], et al
- [A] EP 0492141 A2 19920701 - DAIMLER BENZ AG [DE]
- [A] DE 3024209 A1 19810122 - RINNERTHALER GUENTER DR
- [A] WO 03042515 A1 20030522 - VALEO THERMIQUE MOTEUR SA [FR], et al

Cited by
DE102015216420B4; KR20190007203A; DE102010062714A1; GB2512952A; GB2512952B; EP2463494A3; CN113864037A; US8590494B2; WO2010036185A1; WO2015060766A1; WO2013178797A1; US9506394B2; US9790840B2; JP2012503740A

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