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AUTOMATIC TEMPERATURE CONTROL OF AIR CONDITIONING / SEAT HEATING VIA A THERMAL IMAGE CAMERA

Technical task:

The object of the technical innovation is to provide an improved comfort of the driver by an automated temperature control of the air conditioning and the seat heating / ventilation.

Initial situation:

Currently you can regulate the air conditioning and the seat heating / seat ventilation via a switch / button or voice control and so set the desired temperature in the vehicle.

Solution:

The comfort of the driver may be related to temperature setting at the Air conditioning in the interior of the vehicle or the activation of the seat heating / seat ventilation can still be heard.

A future built-in thermal imaging camera, the body temperature of the driver can be continuously monitored. In addition, you would need several „Target body temperature images“, which the driver can adjust so that a target-actual comparison can take place by a control unit.

If the recorded image is darker / bluish than the selected / set target image, the temperature of the air conditioner will be adjusted upwards.

If the region of the underside of the thighs or that of the rear is explicitly shown darker, the seat heating can be added. In addition, a should automatic control by a permanent target-actual comparison done. Because over time, the body is warmer and thus the temperature of the air conditioning and / or the seat heating can be adjusted again. In this case, the two components can be downshifted or turned off.

The same scenario applies in the summer only in the opposite sense, when the body temperature increases or the thermal image is rather brighter. For this purpose, the temperature of the Air conditioning can be down regulated and it may possibly be additionally activated the seat ventilation (if available).

Advantages:

- The vehicle can adapt to the conditions and, if necessary, generate aerodynamic advantages.

Possible application:

- For all vehicles with air conditioning and seat heating / ventilation.