

Title (en)

A WIRELESS SYSTEM AND METHOD TO GENERATE A THERMAL COMFORT MAP OF A VEHICLE.

Title (de)

DRAHTLOSES SYSTEM UND VERFAHREN ZUR ERZEUGUNG EINER KARTE DES THERMISCHEN KOMFORTS EINES FAHRZEUGS

Title (fr)

SYSTÈME ET PROCÉDÉ SANS FIL DESTINÉS À GÉNÉRER UNE CARTE DE CONFORT THERMIQUE D'UN VÉHICULE

Publication

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Application

EP 20836476 A 20200701

Priority

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- IN 2020050569 W 20200701

Abstract (en)

[origin: WO2021005617A1] A wireless system (100) to generate a thermal comfort map of a vehicle (102) comprising a plurality of high precision sensor devices (104) and data acquisition device (106). The sensor devices (104) are configured to measure a plurality of parameters such as air temperature, air velocity, relative humidity, globe temperature, surface temperature, surface heat flux, solar radiation and net radiation simultaneously. Preferably, at least one of the sensor devices (104) is embedded in a windshield of the vehicle (102). The data acquisition device comprising a transceiver unit (114), a storage unit (116) and an analysis unit (118). The data acquisition device is configured to calculate data including mean radiant temperature, operative temperature, equivalent temperature, Predicted Mean Vote (PMV) and Predicted Percentage of Dissatisfied (PPD) based on the parameters and generate the thermal comfort map of the vehicle (102) based on the data calculated and the parameters measured.

IPC 8 full level

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CPC (source: EP KR)

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