

Title (en)

ASSEMBLY COMPRISING A GENERATOR AND ELECTRIC MOTORS, FOR A VEHICLE COOLING OR AIR-CONDITIONING SYSTEM

Title (de)

ANORDNUNG AUS EINEM GENERATOR UND ELEKTROMOTOREN FÜR EINE FAHRZEUGKÄLTE- ODER KLIMAAANLAGE

Title (fr)

ENSEMBLE COMPORTANT UN GENERATEUR ET DES MOTEURS ELECTRIQUES, POUR UN SYSTEME DE CLIMATISATION OU DE REFRIGERATION DE VEHICULE

Publication

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Application

EP 13767101 A 20130717

Priority

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Abstract (en)

[origin: WO2014013457A1] The invention relates to an assembly (1) comprising: a diesel heat engine (3) driving a compressor (15); a generator (4) having permanent magnets and a four-pole rotor, the shaft (25) of said generator being rotated by the heat engine via a belt pulley system; one or more electric motors for the condenser(s) and/or evaporator(s) (8, 9) of a vehicle cooling or air-conditioning system, the aforementioned generator directly powering the electric motor(s) (8, 9) and the supply voltage of the electric motor(s) being the generator output voltage; an auxiliary electric motor (16) for driving the compressor (15) when it is not being driven, or cannot be driven, by the heat engine; and a device (10) for toggling the power supply of the electric motor(s) (8, 9) of the condenser(s) and/or evaporator(s) of the cooling or air-conditioning system, by means of which it is possible to switch from power being supplied by the generator (10) to power being supplied by an external electric network (11), said toggle device (10) comprising one or more switches (12) for controlling the power supply of the electric motor(s) from the electric network (11).

IPC 8 full level

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Citation (search report)

See references of WO 2014013457A1

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