

Title (en)

HEATING, VENTILATING AND AIR CONDITIONING SYSTEM FOR ELECTRIC VEHICLE OR HYBRID ELECTRIC VEHICLE

Title (de)

HEIZUNGS-, LÜFTUNGS- UND KLIMAAANLAGENSYSTEM FÜR EIN ELEKTROFAHRZEUG ODER EIN HYBRIDELEKTROFAHRZEUG

Title (fr)

SYSTÈME DE CHAUFFAGE, VENTILATION ET CLIMATISATION D'AIR POUR UN VÉHICULE ÉLECTRIQUE OU UN VÉHICULE ÉLECTRIQUE HYBRIDE

Publication

**EP 2652834 A1 20131023 (EN)**

Application

**EP 11835640 A 20111027**

Priority

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- CN 2011081433 W 20111027

Abstract (en)

[origin: WO2012055367A1] A Heating, Ventilating and Air Conditioning (HVAC) system for an electric vehicle or hybrid electric vehicle comprises a casing (110), a blower (120) disposed within the casing (110) and a battery air duct (160) disposed outside the casing (110). The casing (110) includes a first air inlet (111) provided upstream of the blower (120) and a first air outlet (112) provided downstream of an evaporator (130). The battery air duct (160) is connected to the first air outlet (112). The battery air duct (160) has an battery air inlet (161) communicating with the interior of a cabin (190) and an air intake control valve which controls the air fed to the battery with options: (a) feeding cooled air from the HVAC system through the first air outlet (112); (b) feeding air from the cabin (190) through the battery air inlet (161); (c) feeding air from the combination of (a) and (b). The air intake control valve comprises a first flap (170, 270) which is movable between two extreme positions. The first flap (170, 270) closes the first air outlet (112) in the first extreme position and closes the battery air inlet (161) in the second extreme position. The structure of the HVAC system is optimized, and the occupied space of the system and the manufacture cost are decreased.

IPC 8 full level

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CPC (source: EP US)

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