

Title (en)
PROPULSION SYSTEM FOR A VEHICLE

Title (de)
ANTRIEBSSYSTEM FÜR EIN FAHRZEUG

Title (fr)
SYSTÈME DE PROPULSION POUR UN VÉHICULE

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Application
EP 20792460 A 20201022

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Abstract (en)
[origin: WO2021078887A1] The invention relates to an electric propulsion system for a vehicle, in particular a motor vehicle, comprising: • - an electric machine with permanent magnets (4) configured to be supplied by an inverter (90), the electric machine comprising a rotor having six or eight poles, and a stator (410), the stator (410) having a stator body provided with slots (413), the slots receiving conductors forming a winding (411), the number of slots in the stator body being between 48 and 72 • - a differential (7) capable of driving an output shaft, the ends of which are equipped with two laterally opposite wheels of the vehicle, • - a transmission device (10) kinematically arranged between the electric machine (4) and the differential (7), the transmission device comprising a first torque transmission path (11) having a first reduction ratio and a second torque transmission path (12) having a second reduction ratio, the transmission device (10) comprising a coupling device (1, 2) for transmitting a torque between the electric machine (4) and the differential (7) either via the first transmission path (11) or via the second transmission path (12).

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