

Title (en)  
PROPULSION SYSTEM FOR A VEHICLE

Title (de)  
ANTRIEBSSYSTEM FÜR EIN FAHRZEUG

Title (fr)  
SYSTÈME DE PROPULSION POUR UN VÉHICULE

Publication  
**EP 4048538 A1 20220831 (FR)**

Application  
**EP 20792460 A 20201022**

Priority  
• FR 1912008 A 20191025  
• EP 2020079800 W 20201022

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).

IPC 8 full level  
**B60K 1/00** (2006.01); **B60K 17/02** (2006.01); **F16H 3/089** (2006.01); **F16H 63/30** (2006.01); **H02K 21/14** (2006.01)

CPC (source: EP)  
**B60K 1/00** (2013.01); **F16H 3/006** (2013.01); **F16H 3/089** (2013.01); **H02K 21/14** (2013.01); **B60K 17/02** (2013.01); **B60K 2001/001** (2013.01); **B60Y 2400/4244** (2013.01); **B60Y 2400/61** (2013.01); **F16H 61/688** (2013.01); **F16H 2200/0021** (2013.01); **F16H 2200/0034** (2013.01); **H02K 2213/03** (2013.01)

Citation (search report)  
See references of WO 2021078887A1

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**FR 3102525 A1 20210430; FR 3102525 B1 20211008; CN 218519523 U 20230224; EP 4048538 A1 20220831; WO 2021078887 A1 20210429**

DOCDB simple family (application)  
**FR 1912008 A 20191025; CN 202090000929 U 20201022; EP 2020079800 W 20201022; EP 20792460 A 20201022**