

Title (en)

METHOD FOR CONTROLLING AN ELECTROMOTIVE DRIVE OF A MOTOR VEHICLE

Title (de)

VERFAHREN ZUR STEUERUNG EINES ELEKTROMOTORISCHEN ANTRIEBS EINES KRAFTFAHRZEUGS

Title (fr)

PROCÉDÉ POUR COMMANDER UN ENTRAÎNEMENT ÉLECTROMOTEUR D'UN VÉHICULE À MOTEUR

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Application

EP 21755766 A 20210806

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Abstract (en)

[origin: WO2022033966A1] The invention relates to a method for controlling an electromotive drive (100) of a motor vehicle by a control unit (106), wherein at least one vehicle wheel (116) of the motor vehicle can be driven by an electric motor (104) of the electromotive drive (100) and wherein the electromotive drive (100) has at least one energy source (108) for the electric motor (104). The method comprises: identifying a request for applying a deceleration torque to the vehicle wheel (116), identifying status information (140, 142, 144) of the electromotive drive (100), selecting an operating mode (134, 136) of the electric motor (104) from at least two possible operating modes (134, 136) of the electric motor (104) according to the identified status information (140, 142, 144), and controlling the electric motor (104) in the selected operating mode (134, 136) for applying the deceleration torque to the vehicle wheel (116), by the control unit (106), wherein, in a first operating mode (134) of the possible operating modes of the electric motor (104), the electric motor (104) is controlled such that the rotational energy (120) of the vehicle wheel (116) is converted at a first efficiency into electrical energy, and wherein, in a second operating mode (136) of the possible operating modes of the electric motor (104), the electric motor (104) is controlled such that the rotational energy (120) of the vehicle wheel (116) is converted at a second efficiency into electrical energy, wherein the second efficiency is lower than the first efficiency.

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