

ELECTRIC VEHICLE, MOTOR CONTROL METHOD THEREOF, APPARATUS AND STORAGE MEDIUM

ABSTRACT

The present application belongs to the field of electric vehicle technology and
5 specifically relates to an electric vehicle, a motor control method thereof, an apparatus
and a storage medium. The motor control method of the electric vehicle of the present
application includes: detecting a relative deformation of a transmission system between
a driving gear and a wheel end of a motor; determining a first speed difference value of
10 a first driving gear rotation speed and a first wheel end conversion rotation speed when
the relative deformation is a first threshold, where the relative deformation being the
first threshold value is used to indicate that the driving gear starts to disengage from a
driven gear of the transmission system, the first driving gear rotation speed is a rotation
speed of the driving gear at a disengagement moment of the driving gear and the driven
15 gear, and the first wheel end conversion rotation speed is a rotation speed obtained by
performing a speed ratio conversion on the wheel end rotation speed of the electric
vehicle at the disengagement moment; determining an output torque of the motor
according to the first speed difference value; and controlling the driving gear to perform
a tooth approaching operation relative to the driven gear according the output torque.
Therefore, problems of larger vibration and noise of the motor and the transmission
20 system can be reduced or even avoided.

FIG. 3