

Electric transmission for hybrid vehicle

O. I. Petrov

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Abstract

A technical solution is proposed for the electrical transmission of the torque of the internal combustion engine to the wheels (propeller) of a hybrid vehicle to set it in motion. The purpose of the technical solution is to reduce energy losses in the electrical power transmission device and reduce the cost of its implementation. The expected economic effect in the implementation of the proposed technical solution consists of a reduction in power losses during electric power transmission up to 10% of the engine power, and the cost of its implementation will reduce the cost of the vehicle by up to € 2 000. The proposed device is technically feasible using commercially available devices and can be used in the automotive industry, while being able to recoup the costs of implementation, that is, it meets the criterion "industrially applicable".

Keywords: electrical power transmission devices, electrical transmission, torque, internal combustion engines, engines, hybrid vehicles

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