

**Title of Invention: Power Rear Fork Driving System for Pure Electric Two-Wheeled  
Motorcycle**

**Abstract**

Disclosed is a power rear fork driving system for a pure electric two-wheeled motorcycle, including a rear fork fixing base, where one side of the rear fork fixing base is connected to a frame, a power rear fork shell and a supporting rear fork are respectively arranged at both ends of the other side of the rear fork fixing base, an output shaft is rotationally connected between the power rear fork shell and the supporting rear fork, a motor cavity is arranged on the power rear fork shell, a gear cavity is formed in a side of the motor cavity proximal to the output shaft, a driving motor is arranged in the motor cavity, a driving gear shaft and a driven gear meshed with each other are arranged in the gear cavity, the driving gear shaft and the driven gear are in reducing transmission, the driving gear shaft is connected to a motor shaft on the driving motor, one end of the output shaft extends into the gear cavity, and the driven gear is connected to the output shaft, so that the power transmission path is shorter, the efficiency is higher, and the sealing performance is good. The volume of a battery is not sacrificed, and a larger battery may be placed to increase the endurance mileage. Problems of performance deterioration and waterproofness due to the increase of rotational inertia caused by a wheel hub motor are reduced.

Fig. 1