

Title (en)

ELECTRIC BICYCLE WITH ELECTRIC TRANSMISSION CHAIN PARALLEL TO THE PEDALLING CHAIN, COMPRISING A CENTRAL POST INTEGRATING THE MOTOR, ITS BATTERY AND ITS CONTROL ELECTRONICS

Title (de)

ELEKTRISCHES FAHRRAD MIT ELEKTRISCHER ÜBERTRAGUNGSKETTE PARALLEL ZUR TRETKETTE, MIT EINER MITTELSTANGE ALS MOTORINTEGRATION, SEINE BATTERIE UND SEINE STEUERELEKTRONIK

Title (fr)

VELO ELECTRIQUE A CHAINE DE TRANSMISSION ELECTRIQUE PARALLELE A CELLE DE PEDALAGE, COMPRENANT UN MAT CENTRAL INTEGRANT LE MOTEUR, SA BATTERIE ET SON ELECTRONIQUE DE COMMANDE

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Application

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Abstract (en)

[origin: WO2020020922A1] The invention essentially consists of integrating in a stack all the components (6, 60, 61) of the electric motor within a central post (5), with the heaviest component, the motor (6), as close as possible to the axle of the pedal crank, in a bicycle with two independent transmissions (electric motor and pedalling system), in which the transmission by conventional pedalling is combined with a supplementary transmission by electric motor, which is parallel and completely uncoupled from the pedalling transmission. Mechanical uncoupling between the two transmission mechanisms is provided by two free wheels, one for the pedalling mechanism, as is usually the case, which can be integrated in a sprocket set, and the other one for the mechanism of the electric motor, which can be inserted either near the output of the motor, or directly on the rear wheel axle (11).

IPC 8 full level

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