A B S T R A C T

A power-assisting device which is used in combination with an ordinary bicycle comprises: a hollow shaft (70) rotatably supported in a hanger lug (1) of a bicycle (B), restricted a movement thereof along a rotation center line thereof, and having both end portions projected out of the hanger lug, one end of which being detachably attached to a rear wheel drive gear (17) and another end of which being detachably attached to an input gear (56); a crank shaft (80) rotatably supported in a center hole (71) of the hollow shaft, restricted a movement thereof along a rotation center line thereof, and having both end portions extending out of the hollow shaft, both end portions being detachably attached to a pair of pedal-equipped crank arms (81, 82); a power-assisting unit (50, 30, 40) detachably attached to a body of the bicycle, and having a motor (40) and rotation force transmission mechanism (50) for transmitting a rotation force from the motor (40) to the input gear, the rotation force transmission mechanism having a one-way clutch (37c) for transmitting the rotation force form the motor to the input gear only in a direction in which the bicycle moves forward; and a rotation fore control unit (T) interposed between the crank shaft and the hollow shaft at an outside of the hanger lug to transmit the rotation force of the crank shaft to the hollow shaft,

and controlling the motor to generate a rotation force when a value of the rotation force of the crank shaft becomes larger than a predetermined value.