

TITLE: POWERED STAND DEVICE FOR MOTORCYCLE**FIELD OF THE INVENTION**

5 The present invention relates to a powered stand device for motorcycle. That riders just needs to press the button to make the twin middle prop which is under the motorcycle move onward then drop down to prop the body of motorcycle and complete the parking activity, moreover, it
10 could be rotated rearward and lifted up then riders can start to ride. It's a kind of motor device that it could complete propping the body of motorcycle and rising or descending activity automatically. Don't need to move the motorcycles laboriously, the advantages included simplify
15 structure and convenient.

BACKGROUND OF THE INVENTION

20 Motorcycle is a convenient and economical vehicle, but its weight and stable level sometimes is a huge load for the riders whose body is smaller and weaker. To use the traditional middle prop could reduce the total weight of motorcycle through leverage, it could be moved to backseat namely support the whole one. The method actually is not
25 perfect. In the process, the rider needs to press down the prop by one foot to be the strong point of lever, and hold the handles then pull the motorcycle rearward laboriously to lift it up and make the middle prop to be the strong point. It is strenuous when female and people who have smaller
30 figure and strength, especially heavy motorcycle. It will be more difficult to operate.

In addition, it's difficult to search a parking space

due to the traffic jam in most of city and too many motorcycles in the modern city so that riders need to park their motorcycles under narrow space. At this time, riders (or their motorcycles) often hit other motorcycles easily
 5 when they are parking and it may not have enough space that riders stand beside their own motorcycles when lifting it up.

SUMMARY OF THE INVENTION

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The invention is special for solving the inconvenience that riders park the traditional motorcycles. Riders don't need to get it off, just press the button to make the twin middle prop which is under the motorcycle move 80 degree
 15 onward to the middle part of motorcycle then prop it up by motor method and parking is completed. Not only riders don't need to get off their motorcycles to complete the parking activity but also don't feel inconvenient when they park under narrow space. Female and people who has smaller figure
 20 and strength will complete the parking easily. Riders don't need to worry the weight of heavy motorcycle when they ride it. As long as using this invention, everyone can park any kind of motorcycle even if female or people who has smaller figure and strength.

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The rider just needs to press the button to make the middle prop that support the motorcycle to rotate rearward then drop the body down. The middle prop will go back the original place under the back area of the motorcycle. Then
 30 the rider can start to ride.

It is not only completely solved the inconvenience of parking traditional motorcycle but also make the process

of parking be automatic. Regard to riders, the operation is very simple and convenient to complete the process easily and operate it by press the button only.

5 BRIEF DESCRIPTION OF THE DRAWINGS

Fig.1 is the front view of the invention.

Fig.2 is the lateral view of this invention.

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Fig. 3 is an illustration to describe the twin-middle prop.

REFERENCE NUMBERS IN DRAWINGS

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| 15 | 1 | electric button typed switch |
| | 2 | driving motor |
| | 3 | transmission-spur gear |
| | 4 | transmission-bevel gear |
| | 5 | eccentric transmission gear |
| 20 | 6 | eccentric transmission linkage |
| | 7 | sliding shaft with piston route |
| | 8 | fixed base for sliding shaft |
| | 9 | middle-curved prop with transmission linkage |
| | 10 | middle-prop fixed shaft |
| 25 | 11 | twin-middle prop |

DETAILED DESCRIPTION OF THE INVENTION

Referring to Fig.1 and Fig.2, the Powered Stand Device
 30 for Motorcycle is installed under the motorcycle. If riders would like to use this device to park, they just need to press the electric button typed switch (1) that installed on the motorcycle to make the driving motor (2) start,

transmit the motive power to transmission-spur gear (3), then transmit to transmission-bevel gear (4) that linked with transmission-spur gear. The motive power from transmission-bevel gear (4) transmit to eccentric transmission gear (5) and promote eccentric transmission linkage (6) to make the sliding shaft with piston route (7) which linked with eccentric transmission linkage (6) start to move front and rear. There is a fixed base for sliding shaft (8) which functions as fixed the sliding shaft with piston route (7), finally, the sliding shaft with piston route (7) promote middle-curved prop with transmission linkage (9), which is linked with the sliding shaft with piston route (7) to make the twin-middle prop (11), that is fixed by middle-prop fixed shaft (10) rotating 80 degree onward from the original back place until the body of motorcycle lifted up and be vertical with it by leverage, then complete the parking after propped up the later half part of motorcycle.

If riders would like to ride the motorcycle which parked, they just need to press the electric button typed switch (1) that installed on the motorcycle to make the driving motor (2) start, transmit the motive power to transmission-spur gear (3), then transmit to transmission-bevel gear (4) that connect with transmission-spur gear (3). The motive power from transmission-bevel gear (4) transmit to eccentric transmission gear (5) and promote eccentric transmission linkage (6) to make the sliding shaft with piston route (7) which connect with eccentric transmission linkage (6) start to move front and rear. There is a fixed base for sliding shaft (8) which functions as fixed the sliding shaft with piston route (7), finally, the sliding shaft with piston

route (7) promote middle-curved prop transmission linkage (9), which is linked with the sliding shaft with piston route (7) to make the twin-middle prop (11), that is fixed by middle-prop fixed shaft (10) rotating 80 degree backward from the vertical status until it went back the original back place. Thus riders could start to ride their motorcycles.

From above-mentioned method, this invention makes the process of parking and start to ride be functional as automatic. Riders can complete the process easily by press the button only.

CLAIMS

I claim:

1. A powered stand device for motorcycles comprising:
5 a driving motor, a transmission-spur gear, a
 transmission bevel gear, an eccentric transmission gear,
 an eccentric transmission linkage, a fixed base, a
 sliding shaft, a middle-curved prop, a middle-prop
 fixed shaft and a saw-toothed twin middle prop capable
10 of rotating 80 degrees.

2. The powered stand device according to claim 1, wherein
 said twin-middle prop rotates at an angle consisting of
 80 degrees. Concretely speaking, when a rider would like
15 to park, he just need to press the electric button typed
 switch installed on the motorcycle to make all elements
 of the powered stand device that mentioned in claim 1 to
 behave, and wherein said twin-middle prop rotates at an
 angle of exactly 80 degrees onward from the original back
20 place, and fixed and stopped at that position which called
 fixed position thereafter, then the whole parking cycle
 will be completed. This fixed position above-mentioned
 is absolutely in accordance with the Mechanics principle
 and the most laborsaving and perfect propping holding
25 position. And when the rider wants to ride the motorcycle
 which originally was parked, he just also needs to press
 the electric button typed switch to start all elements
 of the powered stand device to behave just like

above-mentioned, and wherein said twin-middle prop rotates at an angle of exactly 80 degrees backward from the fixed parking position to the original back place, then the rider will be able to ride.

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3. Referring to above-mentioned method, this invention makes the process of parking and start to ride become automatically functional, thus the rider can complete the process easily by pressing the button only.

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