Claims

1. A vehicle with a low gravity center for an aerial work platform, comprising a vehicle frame, a power system, a fuel tank, and a hydraulic tank all of which are mounted at a side of the vehicle frame along a length direction of the vehicle frame;

a first box and a second box are installed on two sides of the vehicle frame along the length direction of the vehicle frame respectively; the power system is contained in the first box, whereas the fuel tank and hydraulic tank are contained in the second box; and

a turning opening is defined at a side of the second box for folding a control box into and out of the second box, and an upper edge of the control box is hinged to an upper edge of the turning opening.

2. The vehicle with a low gravity center as recited in claim 1, wherein the power system includes an engine located in the first box and secured onto the vehicle frame through a bracket.

3. The vehicle with a low gravity center as

recited in claim 2, wherein a damping device is disposed at a location where the engine and bracket are connected together.

4. The vehicle with a low gravity center as recited in claim 1, wherein the fuel tank , hydraulic tank, and second box are integrally formed.

5. The vehicle with a low gravity center as recited in claim 2, wherein the power system further comprises a cooling component, a fuel delivery component, and an intake-exhaust component.

6. An aerial work platform, comprising a vehicle with lower gravity center as recited in any one of claims 1-5, a telescopic transmission component pivotablly mounted on the vehicle, and an operation platform disposed on a distal end of the telescopic transmission component.

7. The aerial work platform as recited in claim 6, wherein a turret is disposed on the vehicle frame of the vehicle; one end, away from the operation platform, of the telescopic transmission

component, is pivotablly connected with the turret through a supporting arm; the operation platform is connected with the telescopic transmission component via a telescopic connection component; a supporting member is disposed between the supporting arm and telescopic transmission component, and, another supporting member is placed between the telescopic transmission component and telescopic connection component.