TRANSPORTATION VEHICLE

FIELD OF THE INVENTION

The present invention relates to transportation robot, particularly to a transportation vehicle.

BACKGROUND OF THE INVENTION

The wheels of the vehicle, especially the driving wheels, are required to contact the ground during travelling, the requirement of contacting the ground means to contact with the ground and withstand a certain pressure, so as to ensure normal travelling, otherwise slipping may occur. Prior vehicles generally use springs to hold the driving or driven wheels, so that the wheels can still be kept closing to the ground when they are on the uneven ground.

However, this method has three defections:

1. When manufacturing the vehicle, the elastic coefficients of the springs are different, and the different compression amounts will cause unbalance stress on each wheel, which will bring difficulties to standardization, and even can't avoid slipping.

2. When accelerating and decelerating, the process of compression and springback of the spring structure will be repeated, causing the vehicle to swing back and forth, which can even cause the handled goods to fall.

3. There are often more than one installed springs, many parts are required, and the installation procedure is complicated.

SUMMARY OF THE INVENTION

It is an object of the present invention to provide a vehicle structure that avoids the use of springs and can still contact to the ground when on the uneven ground without causing the vehicle to swing.

In order to achieve the object, there is provided a transportation vehicle, comprising a chassis and a wheelset structure, both sides of the chassis are each provided with at least one wheelset structure, the wheelset structure comprising a connecting member and two wheels, the connecting member is pivotally connected to the chassis, the two wheels are connected to two ends of the connecting member respectively, and the two wheels are rotatable relative to a pivot point of the connecting member and the chassis to contact the ground.

The two wheels being rotatable relative to the pivot point of the connecting member and the chassis means that the pivot point is located between the two wheels. When one wheel moves upward, the other wheel will