The present invention discloses a luggage with spinner wheels, comprises a luggage body, a spinner wheel is provided on each of the four corners at the bottom of the luggage body, the four spinner wheels mounted at the bottom of the luggage body include single spinner wheels and dual spinner wheels, wherein two of the spinner wheels located at the front side of the bottom of the luggage body are single spinner wheels, and the other two of the spinner wheels located at the rear side of the bottom of the luggage body are dual spinner wheels. The luggage according to the present invention incorporates the single spinner wheels and the dual spinner wheels, making the luggage stable and turn agilely in movement with less quantity of dual spinner wheels, which reduces the manufacturing cost of such luggage wheels, not only remaining the quality of the luggage in usage, but also reducing the manufacturing cost, thus suitable for bulk production and marketing.
LUGGAGE WITH SPINNER WHEELS

FIELD OF INVENTION

[0001] The present invention involves a luggage, particularly a luggage with spinner wheels.

DESCRIPTION OF THE RELATED ART

[0002] Currently, the luggage has been part of people’s daily life, people use it for storing and carrying stuffs in traveling, it is widely used and has a big market. For easier carrying, most types of luggage have wheels mounted at the bottom, and people preferably choose spinner wheels which are easier for turning in different directions. Usually, for the convenience in manufacturing, the spinner wheels mounted at the bottom of the luggage are either all single spinner wheels or all dual spinner wheels. A single spinner wheel has advantages of quick and easy turning, but in the case of the luggage being pulled at a declining position, only two wheels are touching the ground, meanwhile it is very difficult to keep the two single spinner wheels in balance and keep them perpendicular to the ground, resulting in a greater resistance when pushing the luggage; a dual spinner wheel has less agility in turning when comparing to a single spinner wheel, however in the case of the luggage being pulled at a declining position, four wheels are touching the ground, such that the four wheels of the dual spinner wheels touching the ground are in balance and perpendicular to the ground, resulting in much less resistance when pulling the luggage, which makes people easily pull the luggage, but the manufacturing cost of a luggage equipped with fully dual spinner wheels is relatively higher, which increases the production cost.

SUMMARY OF THE INVENTION

[0003] In order to overcome the shortages in existing technology, the present invention provides a luggage with spinner wheels, with the advantage of a combination of single spinner wheels and dual spinner wheels, the luggage is more stable in moving and easier in carrying, and also the manufacturing cost of such luggage is reduced.

[0004] The technical solution employed by the present invention for solving the mentioned technical problem is as below:

[0005] A luggage with spinner wheels, the luggage comprises a luggage body, a spinner wheel is provided on each of the four corners at the bottom of the luggage body, the four spinner wheels mounted at the bottom of the luggage body include single spinner wheels and dual spinner wheels, wherein two of the spinner wheels located at the front side of the bottom of the luggage body are single spinner wheels, and the other two of the spinner wheels located at the rear side of the bottom of the luggage body are dual spinner wheels. During the movement of the luggage, the single spinner wheels at the front side are in charge of turning directions first, demanding higher agility, while the dual spinner wheels at the rear side are running forward when the luggage is pulled aslant, demanding higher stability. The present invention is designed according to the characteristic of a moving luggage, incorporating the single spinner wheels and the dual spinner wheels, the single spinner wheels are locating at the front side, while the dual spinner wheels are locating at the rear side, the luggage is moving stably and turning agilely when the luggage is pushed moving at an up-right position, the luggage is moving stably and easily with less quantity of dual spinner wheels when the luggage is pulled moving at a declining position.

[0006] Preferably, the single spinner wheel comprises a wheel housing, a single wheel fork and a wheel, the single wheel fork is mounted on the wheel housing in a rotatable manner through a horizontal rotating device, the wheel is mounted on the single wheel fork in a rotatable manner through an axle.

[0007] Preferably, the dual spinner wheel comprises a wheel housing, a dual wheel fork and dual wheels, the dual wheel fork is mounted on the wheel housing in a rotatable manner through a horizonal rotating device, the dual wheels are mounted separately on each side of the dual wheel fork in a rotatable manner through an axle.

[0008] The advantages of the present invention are as below:

[0009] The luggage according to the present invention incorporates the single spinner wheels and the dual spinner wheels, the single spinner wheels are locating at the front side, while the dual spinner wheels are locating at the rear side, the luggage is moving forward stably and turning agilely in movement, with less quantity of dual spinner wheels, which reduces the manufacturing cost of such luggage. The present invention not only retains the quality of the luggage in usage, but also reduces the manufacturing cost, thus suitable for bulk production and marketing.

BRIEF DESCRIPTION OF THE DRAWINGS

[0010] The present invention will be further explained by the following description of embodiments with reference to the accompanying drawings.

[0011] FIG. 1 shows a perspective construction view of the present invention;

[0012] FIG. 2 shows a front view of the present invention;

[0013] FIG. 3 shows a side view of the present invention;

[0014] FIG. 4 shows a rear view of the present invention;

[0015] FIG. 5 shows a bottom view of the present invention;

[0016] FIG. 6 is a construction illustration of the single spinner wheel;

[0017] FIG. 7 is a construction illustration of the dual spinner wheel.

DETAILED DESCRIPTION OF THE DRAWINGS

[0018] Referring to FIG. 1 to FIG. 5, the present invention is a luggage with spinner wheels, the luggage comprises a luggage body 1, a spinner wheel is provided on each of the four corners at the bottom of the luggage body 1, wherein two of the spinner wheels located at the front side of the bottom of the luggage body 1 are single spinner wheels 2, and the other two of the spinner wheels located at the rear side of the bottom of the luggage body 1 are dual spinner wheels 3.

[0019] The luggage according to the present invention incorporates the single spinner wheels 2 and the dual spinner wheels 3, the luggage is moving forward stably and turning agilely in movement, with less quantity of dual spinner wheels 3, which reduces the manufacturing cost of such luggage. The present invention not only retains the quality of the luggage in usage, but also reduces the manufacturing cost, thus suitable for bulk production and marketing.

[0020] Referring to FIG. 6, the single spinner wheel 2 comprises a wheel housing 4, a single wheel fork 5 and a wheel 6,
the single wheel fork 5 is mounted on the wheel housing 4 in a horizontally rotatable manner through a horizontal rotating device, the wheel 6 is mounted on the single wheel fork 5 through an axle and the wheel 6 could vertically rotate about the axle.

[0021] Referring to FIG. 7, the dual spinner wheel 3 comprises a wheel housing 4, a dual wheel fork 7 and dual wheels 8, the dual wheel fork 7 is mounted on the wheel housing 4 in a horizontally rotatable manner through a horizontal rotating device, the dual wheels 8 are mounted separately on each side of the dual wheel fork 7 through an axle and the dual wheels 8 could vertically rotate about the axle.

[0022] The present invention has been described and illustrated in above preferred embodiment, any technical solution realized with basically the same means and accomplishing the same object of the present invention would fall into the protection scope of the present invention.

1. A luggage with spinner wheels, comprising:
   a luggage body (1),
   a spinner wheel is provided on each of the four corners at the bottom of the luggage body (1), wherein the four spinner wheels mounted at the bottom of the luggage body (1) include single spinner wheels (2) and dual spinner wheels (3), wherein two of the spinner wheels located at the front side of the bottom of the luggage body (1) are single spinner wheels (2), and the other two of the spinner wheels located at the rear side of the bottom of the luggage body (1) are dual spinner wheels (3).

2. The luggage with spinner wheels according to claim 1, wherein the single spinner wheel (2) comprises a wheel housing (4), a single wheel fork (5) and a wheel (6), the single wheel fork (5) is mounted on the wheel housing (4) in a rotatable manner through a horizontal rotating device, the wheel (6) is mounted on the single wheel fork (5) in a rotatable manner through an axle.

3. The luggage with spinner wheels according to claim 1, wherein the dual spinner wheel (3) comprises a wheel housing (4), a dual wheel fork (7) and dual wheels (8), the dual wheel fork (7) is mounted on the wheel housing (4) in a rotatable manner through a horizontal rotating device, the dual wheels (8) are mounted separately on each side of the dual wheel fork (7) in a rotatable manner through an axle.

* * * * *