The invention relates to an improved structure of mobile luggage case, comprising the case body, wheels, extension handle mechanism and side rollers, which mainly incorporates a plurality of side rollers on one side of the case body. While in waiting, the mobile luggage case can be couched horizontally on the ground. The case body can also be towed along. While in this way of moving, the side rollers roll on the ground with the least friction against the surface of the ground, making the towing less energy-consuming.
FIG. 1
PRIOR ART
FIG. 5
STRUCTURE OF THE MOBILE LUGGAGE CASE

FIELD OF THE INVENTION

[0001] The present invention relates to an improved structure of mobile luggage case, which, in particular, can be couched horizontally on the ground while not in use, or towed along with the least friction against the surface of the ground.

BACKGROUND OF THE INVENTION

[0002] The prior art of the mobile luggage case 1a as shown in FIG. 1, in addition to the case body 10a for holding personal supplies, it further constitutes two wheels 11a mounted on the bottom of the case body 10a, and a handle bar 12a with two extension rods 13a. When the extension rods 13a are extended, the user can tow the mobile luggage case along with two wheels 11a running on the ground.

[0003] A side standing leg 14a is furnished on the side (left or right side at option) of the case body 10a. The said side standing leg 14a is mounted on four corners of the case body 10a. While in waiting, the mobile luggage case can couch on the ground, however, it can be towed along, but the side standing leg 14a produces immense friction when the case is moved on.

[0004] However, the friction of side standing leg 14a of the case body 10a against the ground for the said luggage case 1a renders an easy wear and damage, which makes it hard for the user to move it. Especially on the rough surface of the ground, it is easy to impose severe wear on the side standing leg 14a, making the service life of the mobile luggage case 1a shorter.

[0005] Viewing the inconvenience and defect of the prior art of the mobile luggage case inheres; there is apparently room for improvement.

[0006] The inventor has devoted great efforts to the theoretical improvement and come up an effective design which eliminates the defects the prior art of the mobile luggage case has had.

OBJECTS OF THE INVENTION

[0007] The main object of the present invention is to provide an improved structure of the mobile luggage case whereas a plurality of side rollers are incorporated into the case body. It can be couched on the ground while in waiting, or easily to tow along immediately while in moving. The side rollers are running in the manner in which least friction is produced against the ground, less wear is imposed on the rollers. It enhances energy saving and the service life of the mobile luggage case.

[0008] To achieve the aforesaid object, an improved structure of the mobile luggage case provided in the invention comprises a case body, at least two wheels, an extension handle mechanism and a plurality of side rollers. The said wheels are mounted on the bottom of the case body; the extension handle mechanism is mounted on the back of the case body, while the side rollers are mounted on one side of the case body, thus construct the structure of the luggage case.

[0009] The features and technical implication of the invention are expounded in great details with the aid of preferable embodiments which are illustrated in the drawings attached.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS

[0010] As shown in FIGS. 2, 3 and 4, an improved structure of the mobile luggage case provided by the present invention consists of a case body 10 for holding personal supplies, four protective corners 11, 12, 13 and 14 are furnished. These four protective corners 11, 12, 13, and 14 are made form hard material, wrapping the corner of the case body 10 to protect it from being collided and damaged.

[0011] The bottom of the case body 10 is further furnished with two wheels 15 and two bottom legs 16. The wheels 15 are pivotally connected on the protective corners 11. The bottom legs 16 are integrally formed with the protective corners 12.

[0012] On the back of case body 10, there are a handle 17 and tow extension rods 18 (as illustrated in FIG. 5), both form the extension handle mechanism easy for the user to pull off the extension rod 18 to tow the case body 10 along the running wheels 15.

[0013] On one side of the case body 10, there installs a plurality of side rollers 19. The side rollers 19 are inserted on the protective corners 11, 12, 13, and 14. The protective corners 11, 12, 13, and 14 provide hollows 11l, 12l, 13l and 14l to receive the side rollers 19, and fix it in place by dint of the bolt, rivet or clamp. The side rollers 19 are outfitted on the four corners of one side of the case body 10.

[0014] The other side of the case body 10 is also provided with a plurality of side legs 20, integrally formed with the protective corners 11, 12, 13, and 14. The side legs 20 are spread around the four corners on one side of the case body 10 with an appropriate height above the ground. This is the basic formation of an improved structure of the mobile luggage case of the present invention.

[0015] As shown in FIG. 5, the user holds the handle bar 17 and pulls outward the extension rods 18, the case body 10 is moving on the wheels 15. Now turn to FIG. 6, there is a plurality of side rollers 19 on one side of the case body 10, while in waiting, the mobile luggage case 1 is couched on the ground. The user picks up the handle and tows it along, the side rollers 19 are running on the ground as long as the case is moving. It reduces the friction between the side rollers 19 and the ground to the minimum, saves the user's energy and practically extends the service life of the mobile luggage case 1.

[0016] Viewing from the above statements, it is obvious that the invention has substantially made an improvement to eliminate the defects of easy wear of side standing legs and the short service life the prior art of the mobile luggage case has presented. The invention is a novel, advance and creative product, meeting the patent criteria and justified for an approval of patent in order to protect the interest of the inventor.

[0017] The preferable embodiments as described in the invention are not limited, and the drawings and statement provided in the invention permit many alterations and modification that are included in the interest of the invention.
BRIEF DESCRIPTION OF THE DRAWINGS

[0018] FIG. 1 is a stereo of the prior art of the mobile luggage case.

[0019] FIG. 2 is a disassembly of the mobile luggage case of the invention.

[0020] FIG. 3 is a stereo assembly of the mobile luggage case of the invention.

[0021] FIG. 4 is a stereo assembly of the mobile luggage case of the invention viewed from another angle.

[0022] FIG. 5 is a schematic diagram showing the luggage case is moving (1)

[0023] FIG. 6 is a schematic diagram showing the luggage case is moving (2)

What is claimed is:

1. An improved structure of a mobile luggage case, comprising:
   a case body;
   at least two wheels mounted at a bottom side of said case body;
   an extension handle mechanism installed on a back side of said case body; and
   a plurality of side rollers mounted on one side of said case body.

2. An improved structure of a mobile luggage case of claim 1, wherein said plurality of side rollers pivotally connected to a left or right side of said case body.

3. An improved structure of a mobile luggage case of claim 1, wherein said case body having corners wrapped with protective corners for receiving said side rollers.

4. An improved structure of a mobile luggage case of claim 1, wherein said bottom of said case body provided with a bottom leg.

5. An improved structure of a mobile luggage case of claim 1, wherein said case body having the other side provided with a plurality of side legs.

6. An improved structure of a mobile luggage case of claim 1, wherein said extension handle mechanism having a handle bar and two extension rods.