

ANEXO 1: TRADUCCIÓN DE D2 CN201148101Y

DESCRIPTION CN201148101

Technical Field

The utility model involves universal wheel technology field, in particular, relates to a luggage caster.

Background Art

Caster is its wheels both in a same plane with the holder about a vertical mounting shaft rotation (steering), but also at the same time in the plane of rotation (displacement) of a roller mechanism.

Objects through castor wheels fitted on the same plane in any direction movement, it is widely used in various fields of production and life of the people, and bring a lot of convenience and benefits to people.

Wide variety of structures are not the same, but their range classification, can be broadly divided into two types, namely, the production and life-type caster.

Production caster, a caster of applications in the industrial, agricultural and other work, this caster, mostly starting from the actual needs of the production, work, and generally to improve production efficiency, reduce labor intensity, reduce production costs, and many other aspects to consider, its structure is more complex, and correspondingly higher production costs, with the utility models are not comparable in detail.

Life forms caster in life are often used or encountered such activity chairs, activity tables, luggage cart, shopping cart, stroller, sofas and furniture applications caster, species caster, its structure are substantially similar, are posted by the mounting shaft, stent, planar bearings (or ball and steel bowl) constitutes the direction of the rotor and to be mounted on the carriage wheel composed.

Such casters with respect to the mounting object is independent, it has excellent versatility and interchangeability the same casters may be installed on a variety of different objects, usually small, handy, and simple structure, easy installation, low cost, popular people like.

However, due to structural reasons, it can also exist many failings; Because such casters mounted on the object is connected by the mounting shaft and the object, and the object in motion, in addition to its own pressure, also accompanied by a shear shear, small caster with the contact surface of the object as a whole, both from the caster and objects with the stability, or own lifetime castor wheels have a greater impact.

Especially caster, only applies to rigid objects fitted with soft objects, such as luggage can not be applied.

In the prior art, retrieval, luggage caster, has not yet been found, but in reality the bags with caster there are many, and its structure with the existing caster or less the same, mostly single plane bearing structure in the form of single roller, single plane bearing control stent (direction of twist), single wheel installed in the bracket lower part of the form.

As a result of the single plane bearing structure, the bracket (twist direction) axial not lock, its results: First, loosely structured, poor stability, is easy to get stuck.

Utility model

The purpose is to provide the overall structural installation mating surface, good stability, to overcome the inadequacies of the existing caster a luggage caster.

The utility model to solve technical problems using technology program: bags with a caster, including bearings fitted in the luggage through the screw and nut mounted on a carriage, a plane bearing bracket the protective cover is mounted on a carriage, as well as wheel by mounting shaft mounted on the lower portion of the bracket; carriage system with a bracket fitted surface, fixing surface and screw holes of the luggage; the carrier upper bearing recess mounting plane bearing system; with the bracket The upper part of the system and some bearing recess corresponding bearing bracket fitted surface system recesses the recessed hole can be placed stents upper plane bearing; bags bearing fixed face should stand bracket equipped pastas Some concave holes produced in a boss, screw holes are produced at the boss; some of the upper portion of the screw and the bracket system bearing recess vertical concentric fixedly mounted in the holder; the bracket is mounted on a carriage, the use of stents to configure dual plane bearing the form of installation, shall be installed between the bearing the stenting configuration of the upper plane bearing and the lower plane bearing form; the lower plane bearing mounting bracket in the upper part of the system and some bearing recess; mesas stand luggage mounting surface system used to match with the upper plane bearing recess the upper plane bearing screw and nut through the screw hole mounting bosses; wheel mounted in the lower part of the bracket is made in the form of two-wheeled structure or in the form of single-round structure; installed in bearing on the protective cover is made of plastic or metal materials, install the bearing the luggage mounting surface convex stage, installed at the upper plane bearing screw and nut, and the protective cover of shapes, sizes bearing with the upper plane, screw and the nut installed morphology adapter, can snap the upper plane bearing directly cards can also be set at the boss.

By installing the wheel shaft is mounted in the lower portion of the bracket, made of the form of a wheeled structure, the installation shaft made of a hollow tube shaft-shaped rollers mounted on the ends of the shaft made of a hollow pipe shaft-shaped mounting by rivets, rivets pad shaft manner by injection molding of the lower part of the bracket to the lock, made of hollow tube shaft-shaped mounting shaft is fixedly mounted.

And bracket system some bearing recess vertical concentric fixedly mounted in the holder of the screw, using the metal screw bracket injection molding manner fixedly mounted.

Stent system of the bearing recess, the diameter and the diameter and thickness of the depth and the next bit plane bearing adapted recessed holes of the bearing system and the plane bearing the recess, the diameter and depth of the carrier upper and lower bit plane bearing adapter, mesas stand bags fixed surface made recess diameter and depth of the upper plane bearing adapter.

The scimitar-shaped or fan-shaped bracket can be made into a variety of shapes, the best upper made of cylindrical, the lower part is made applicable wheel mounting.

The holder can be made into various shapes, preferably made of the corresponding packet and the luggage gusset style.

In order to prevent loose installed boss in the luggage fixed surface with the upper plane bearing fitted between the screw and nut installed in the luggage fixed face boss tighten the screw and nut and the upper plane bearing fitted using nut welded given form.

The simple design of the dual-plane bearing assembly completely resolved due to point force affect the caster normal rotation, with the compact, strong integrity, can be described as a multi-faceted co-ordination with the luggage fitted, installation mating surface, good stability; reasonable design, small and exquisite, elegant, popular with users; easily produced, low production costs, rigid plastic production, plastic injection molding, almost without machining, reduce equipment investment, applies to the cost little variety of small production; order to avoid the upper plane bearing the wear of the screw and nut of the luggage, as well as to prevent foreign material stuck to the upper plane bearing and screw affect the rotation effect, particularly in the fixing face of the holder luggage mesas upper plane bearing, at the installation of the screw and nut, the use of special protective cover, compared with the prior art in the use of the protective cover, not only can save a lot of raw materials, and the production, installation easier and more applicable to various structures bags with caster.

BRIEF DESCRIPTION OF THE

The overall structure diagram;

Figure 2 is a sectional structural view of the present utility model holder 6;

Figure 3 The utility model with bags equipped exhibited.

DESCRIPTION OF THE PREFERRED EMBODIMENTS

Referring to Figure 1, Figure 2 and Figure 3, the present embodiment includes a seat 6 fitted on the bag 1, through the screw 10 and the nut 2 is mounted in the cradle 6, configuration, some plane bearing bracket 11, mounted on the seat 6 of the protective cover 22, as well as through the mounting shaft 12 is mounted in the lower part of the holder 11 of the roller 13, the holder 6 is formed with a surface 18 of the stent fitted, luggage fixing surface 19 and the screw hole 21; the upper portion of the holder 11 is formed with a bearing recess mounting plane bearing 17; shaft into a recess 17 corresponding with some of the upper portion of the holder 11 made, the stent fitted surface of the seat 6 18 is formed with a recess of the upper portion of the holder 11 can be placed hole 20 and the recessed hole 20, the bearing recess 25 of the mounting plane bearing; seat 6 luggage fixing surface 19 corresponds to the recessed holes stent fitted seat 6 surface 18 system 20 to produce a projection station 23, the screw holes 21 formed in the boss 23 place, and with the upper plane bearing recess 24, the next bit plane bearing recess perpendicular to the base 25 concentrically; manufactured by screw 10 and the upper portion of the holder 11 some bearings recess 17 vertical, concentrically fixedly mounted holder 11 is mounted on the holder 6 in the holder 11; on the installation bracket 11 configured in the form of the two-plane bearing the form of installation is the seat between 6 stenting 11 configuration of the upper plane bearing and lower plane bearing; the lower plane bearing mounting system some bearing in the bracket 11 upper concave holder 17; holder 6 luggage fixing surface 19 on the projection 23 formed with a match with the upper plane bearing recess 24 by the screw 10 and the nut, the upper plane bearing mounted on the boss 23 through the screw hole 21; A roller 13 is installed in the lower portion of the holder 11 made of wheeled structure in the form or in the form of a single wheel structure; mounted on the carriage 6 on the protective cover 22 is plastic or metal material, is mounted in the seat 6 of the luggage fixing surface 19 projections on the station 23, the upper plane bearing and the screw 10 and the nut 2 is mounted, the protective cover 22 of shape, size, with the upper plane bearing, Morphology after 2 Installation of screw 10 and nut adapted, can buckle on the upper plane bearing, can also be directly engaging in the boss 23; configuration in the bracket 11 on the upper plane bearing and lower plane bearing its upper plane bearings and the upper bearing bowls bowl 5 of the lower bearing and steel ball bearing beads disk, lower plane bearing on bearing bowls, under bearings bowl 9 and with a steel ball bearing beads disk 8 constitutes.

Through the mounting shaft 12 is mounted in the lower portion of the holder 11 a roller 13, made in the form of wheeled structure, the installation shaft 12 is made of a hollow pipe shaft-shaped, the roller 13 is mounted on both ends of the shaft-shaped mounting shaft made of a hollow tube 12, through The rivet 14, the rivet cushion 15 for axial locking, the mounting shaft 12 of the shaft-shaped hollow tube is made using injection molding with the lower part of the holder 11 fixedly mounted.

The screw 10 and the holder 11 in some of the bearing recess 17 vertical, concentrically fixedly mounted in the holder 11, fixedly mounted a metal screw and a holder 11 of the injection molding.

Some bearing holder 11 in recess 17, the diameter and depth, and the next bit plane bearing diameter and thickness adaptation, some of the recessed holes 20 and the plane bearing recess of the holder 6, 25, the diameter and depth of the upper portion of the holder 11 and the lower level The plane bearing adapter, system some of the recesses 24 in the boss 23 of 19, the diameter and depth of the upper plane bearing adapted luggage fixing surface of the holder 6.

The upper part of the bracket 11 is made of a cylindrical, the lower part is made applicable wheel 13 installed scimitar-shaped or fan-shaped.

The holder 6 is made the luggage corresponding packet gusset style.

Installed on the the luggage mounting surface 19 boss 23 with the upper plane bearing fitted screw 10 and nut tighten the nut 2 welding set form.

The roller 13 is provided with a wheel cover 16 for the overall appearance and the protective effect.

The utility model is not only hard plastic material, metal material can also be used, but also doubles as the form of hard plastic and metal materials can be used, therefore, those who made according to the spirit of the design of the utility model equivalent change and modification, should be considered to fall within the range of the utility model protection.

CLAIMS CN201148101

A bags with casters, including fitted on the bags (1) of the holder (6), by a screw (10)

Plane bearing bracket (11), and a nut (2) mounted in the holder (6), configured and mounted in the cradle

A roller (6) on the protective cover (22), as well as through the mounting shaft (12) is mounted in the lower portion of the holder (11)

(13), the holder (6) system the stent fitted surface (18), of bags fixed surface (19) and screw hole (21),

The upper portion of the bracket (11) formed with the mounting plane bearing the bearing recess (17), the upper portion of the holder (11) made some

The fitted surface of the bearing recess (17) corresponding to the holder (6) of the stent (18) can be placed the bracket (11)

The upper portion of the recessed hole (20) and the plane bearing recess (25), the holder (6) of the luggage fixing surface (19).

Recessed holes (20) the stent fitted surface (18) should the carrier (6) system, making a projection (23), a screw hole

(21) produced at the boss (23), characterized in that: the upper part of the screw (10) and the holder (11) made some

Perpendicular to the bearing recess (17), concentric fixedly mounted in the holder (11), the bracket (11) is mounted in the holder (6)

On the bracket (11) to configure dual plane bearing installation, is the support (6) stenting (11)

Installation, configuration of the upper plane bearing and form of lower plane bearing lower plane bearing is installed in the branch

The upper portion of the frame (11) prepared some of the bearing recess (17), the carrier (6) of the luggage fixing surface (19) of the boss

(23) is formed with a recess (24) match with the upper plane bearing, the upper plane bearing screw (10)

And a nut (2) through the screw hole (21) is mounted on the projection (23) is installed in the lower portion of the holder (11)

Made wheeled structure in the form of rollers (13) or in the form of the single-wheel structure, mounted on the carriage (6) on the anti-

The cover (22) of plastic or metal materials, and mounted on the holder (6) of the bags, the fixing surface (19)

Projection (23) on the upper plane bearing and the screw (10) and nut (2) at the installation, the protective cover (22)

Shape, size, with the upper plane bearing screw (10) and after the installation of the nut (2) morphology adapted

Buckle on the upper plane bearing directly cards given in the boss (23).

2, according to claim 1, wherein a luggage with casters, characterized in that is: through the mounting shaft (12)

Is installed in the lower portion of the bracket (11) in the form of rollers (13), made of a wheeled structure, made with the mounting shaft (12)

The shaft shape of the hollow tube, the roller (13) is mounted at both ends of the mounting shaft (12) of the shaft-shaped hollow tube is made by

Rivets (14), rivets, axial locking of the pad (15), made of hollow tube shaft-shaped mounting shaft (12)

A lower injection molding manner with the bracket (11) fixedly mounted.

3, according to claim 1, wherein a luggage with casters, characterized in that: the holder (11) made

The conventional bearing recess (17) vertical, concentrically fixedly mounted in the holder (11) of the screw (10), with metal spiro

The lever and the holder (11) in injection molding is fixedly mounted.

4, according to claim 1, wherein a luggage with casters, characterized in that: the bracket (11) formed with

A bearing recess (17), the diameter and depth and the next bit plane bearing diameter and thickness adapter; seat (6)

System of the recessed hole (20) and the plane bearing the recess (25), the upper part of the diameter and depth of the bracket (11) and a lower

Bit plane bearing adapter, the carriage (6) of the luggage fixing surface (19) of the projection (23) prepared on recess

(24), the diameter and depth of the upper plane bearing adapter.

5, according to claim 1 or 2, wherein a luggage with casters, characterized in that: The holder (11)

The upper made of cylindrical, the lower part is made the applicable wheel (13) installed scimitar-shaped or fan-shaped.

6, according to claim 1, wherein a luggage with casters, characterized in that: the support (6) made of

The corresponding packet with the bags angular style.

7, according to claim 1, wherein a luggage with casters, characterized in that: is mounted in the luggage fixed

Surface (19) boss with the host (23) the plane bearing fitted with screw (10) and nut (2) Tighten

Nut (2) welding form.