The invention discloses a trampoline, including spring mattress (1), legs (2), rails (3). Said foot tube (2) mounted on the spring pad (1) the lower end, said rails (3) disposed in a spring mattress (a) top. Characterized in: The fence (3) constitutes side rod (4)surrounded by a set spring mattress (1), the support rod (4) to connect the barrier ring (5) and connected to the fence ring (5) on the protection net (6). The rod (4) from the previous section elbow (41) and the lower section straight tube (42) sockets with each other. There are holes on the bent upper section (41). By this hole the protective net (6) and the barrier ring (5) is connected. The device has a larger sport area, structural stability, easy to disassemble, high safety factor, long life and other characteristics.
KIND OF TRAMPOLINE TECHNOLOGY

[0001] The invention relates to a trampoline, mainly for people over the age of 6 to have entertainment and fitness exercises on it.

TECHNOLOGY BACKGROUND

[0002] With economic development and people's living standards improve, a variety of recreational facilities have gradually spread. Trampoline is one of the recreational facilities. The existing trampoline mainly includes spring mattress, protective net, legs and rails, form which leg is set at the lower end of the spring mattress for support; protective net and fence are set at the upper end of the spring mattress used to prevent people jumping fell out of bed, but these trampolines have some problems like complex structure, a small bouncing range, the low safety factor, and trampolines fittings easy to break rust, very inconvenient disassembly and many other issues. There is always the potential safety problem for users.

[0003] These trampolines have some problems like complex structure, a small bouncing range, the low safety factor, and trampolines fittings easy to break rust, very inconvenient disassembly and many other issues. Trampoline is a mass movement. It must improve its performance, but no new technology prior art reports.

SUMMARY OF THE INVENTION

[0004] In order to solve the problems in the prior art, the invention is intended to provide a trampoline with larger sport area, structural stability, easy to disassemble, high safety factor.

[0005] To achieve the above object, the technical means are employed in the present invention: This is a trampoline, including spring mattress (1), legs (2), rails (3). Said foot tube (2) mounted on the spring pad (1) the lower end, said rails (3) disposed in a spring mattress (a) top. Characterized in: The fence (3) constitutes side rod (4) surrounded by a set spring mattress (1), the support rod (4) to connect the barrier ring (5) and connected to the fence ring (5) on the protection net (6). The rod (4) from the previous section elbow (41) and the lower section straight tube (42) sockets with each other. There are holes on the bent upper section (41). By this hole the protective net (6) and the barrier ring (5) is connected.

[0006] What is further, the said connecting member includes T-shaped three-way pipe (7) and a five-tube (8), leg (2) and the annular duct (9) are connected by a T-shaped tee (7) and five-pass tube (8), five-pass tube (8) is also used for connecting rod (4) the following section straight tube.

[0007] Further, the outer edge of the spring mattress has a plurality of triangular rings. At the bottom of the net is provided with the same number of rings with triangular square hole. Square holes with the triangular rings are connected by a spring at one end of the spring. The other end of spring is connected to the annular tube. Every spring has one correspondence with the triangular arrangement. Square hole bottom flaps with elastic band, and is fixed to jump fabric through the bottom bands.

[0008] The invention has the advantages that: the upper section of fence rod for the elbow, not only expanded the human body in the bed bounce jump range, but also through the buffering effect of elastic rope greatly increases the safety factor; using the tee and five-pass pipe as the connecting piece, not broken rust and prolong the life of the trampoline to make disassembly easier shortcuts.

BRIEF DESCRIPTION OF THE DRAWINGS

[0009] The following drawings, the present invention will be described technical solution.

[0010] FIG. 1 is a schematic structural view of the invention;

[0011] FIG. 2 is a schematic structural diagram rod invention;

[0012] FIG. 3 is a rod and the protection of the utility network schematic view of a mounting structure;

[0013] FIG. 4 is a schematic structural view of the bottom frame invention;

[0014] FIG. 5 is the invention protection network and the installation of a spring mattress structure diagram.

DETAILED DESCRIPTION OF THE INVENTION

[0015] In the drawings: 1. spring mattresses; 2. the legs; 3. fence; 4. rod; 41. the elbow section 42. the straight pipe section 43. the bolt holes 44. the hook parts, 45. elastic rope, 5. fence ring; 6. the safety net; 7. t-shaped tee; eight, five-pass pipe; 9. the annular tube; 10. the spring; 11. jump cloth; 12. triangular ring.

As shown on FIG. 1: This is a trampoline, including spring mattress (1), legs (2), rails (3). Said foot tube (2) mounted on the spring pad (1) the lower end, said rails (3) disposed in a spring mattress (a) top. Characterized in: The fence (3) constitutes side rod (4) surrounded by a set spring mattress (1), the support rod (4) to connect the barrier ring (5) and connected to the fence ring (5) on the protection net (6). The rod (4) from the previous section elbow (41) and the lower section straight tube (42) sockets with each other. There are holes on the bent upper section (41). By this hole the protective net (6) and the barrier ring (5) is connected.

As shown in FIGS. 2 and 3, the upper section of the rod (4) at the top of pipe (41) has bolt holes (43). Hook member (44) connect grille fence rings (5) and (6) through the bolt holes (43). Protective net (6) is provided with good elasticity elastic rope (45) with hook (44) fixed to the fence on lap (5). In this way, the body in the bed jumping can get greater bounce range of motion, and it can maximize the protection of the human body not to be harmed when bouncing.

As shown in FIG. 4.5, the spring mattress includes a jump cloth (11) set up in the middle, and several triangular rings (12) connected with outer ridge of jump cloth, springs (10) hooked up with the triangular rings (12), pipe (9) for hanging the springs (10), and the annular member to connect pipes (9). Rear end of the springs(10), and the triangles are in the same direction, and front end of Spring (10) and the hook connected with pipe (9) are arranged by correspondence. This structure allows the jump cloth (11) has a solid structure, even by force, can reduce vibration and has durability.

As shown in FIG. 4, the legs (2) and the mattress (1) are connected by spring member. Said connecting members are T-shaped tubes (7) and five-way tubes (8). Leg (2) and the annular tube (9) are connected through T (7) and tee pipe (8). Among these, the five-way tubes (8) are also used to connect support poles (4) lower straight section (42). Compared with the traditional welded structure, it won’t break as the long time use and won’t get rust easily. What’s more, the user can insert the lower straight section (42) of the pole (4) into the
five-way tube (8), and the pipe (9) into the horizontal tubes of the T tubes (7) and five-way tubes (8). Very easy to assemble.

Saves time and is very safe and strong.

[0020] As shown in FIG. 5, there are same quantity square holes at the net (6) bottom as the triangular rings (12). These square holes are connected with the triangular rings (12) through one end of the springs (10). The other end of the springs (10), are connected to the pipe (9). In this way, the connection of net (6) and mattress (1) will be very easy to make and very strong too. Also there are good elastic bands at the bottom of the square holes and are fixed on the mat. So when people jump on mattress, there won’t any falling off happen because of the space between springs. It will make the protective net much stronger and reduce the impact force and reinforce safety. What is more, it can stop the dirt or other staff getting onto the mattress through triangular rings.

1. This is a trampoline, including spring mattress (1), legs (2), rails (3). Said foot tube (2) mounted on the spring pad (1) the lower end, said rails (3) disposed in a spring mattress (a) top. Characterized in: The fence (3) constitutes side rod (4) surrounded by a set spring mattress (1), the support rod (4) to connect the barrier ring (5) and connected to the fence ring (5) on the protection net (6). The rod (4) from the previous section elbow (41) and the lower section straight tube (42) sockets with each other. There are holes on the bent upper section (41). By this hole the protective net (6) and the barrier ring (5) is connected.

2. According to what mentioned in claim 1, this trampoline has the following characteristics: There are bolt holes on the top bended upper pole (41), the hook (44) connect the net (6) and pole circle (5) through these holes(43). Protective net (6) is provided with good elasticity elastic rope (45) with the hook member (44) fixed to the fence ring (5).

3. According to claim 1, wherein the trampoline, characterized in that: said spring mattress (1), including the middle jumping cloth (11), and the triangular r connected to jump several fabric triangular ring (12), and the springs (10) hooked with triangular rings (12), connecting members for hooking the spring (10) an annular duct (9).

4. According to claim 3, wherein the trampoline, characterized in that: said connecting member is T-shaped three-way pipe (7) and a five-tube (8), leg (2) and the annular duct (9) are connected by a T-shaped tee (7) and five-pass tube (8), five-pass tube (8) is also used for connecting rod (4) the following section straight tube.

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