ABSTRACT

This flyingbed structure supported/suspended above the ground by six or more springs mounted into the ceiling or any other overhead frame allows a freedom of movement and feeling of weightlessness found in no other type of bed. The cross direction angles the springs are mounted allow the bed to stabilize itself from excess swinging and make it easier to get in and out of bed.
FLYING BED STRUCTURE SUPPORTED/SUSPENDED ABOVE THE GROUND BY SIX OR MORE SPRINGS

This application claims benefit of the earlier filing date application No. U.S. 61/983,948 on Apr. 24, 2114

BACKGROUND OF THE INVENTION

1. Field of the Invention

This invention relates to the construction of a flying bed system supported above the floor by a set of six or more cross direction springs that are matched to the weight of the mattress plus the weight of the occupants allowing freedom of movement in any direction and a feeling of weightlessness. A bed that is free to move in any direction but still remains safely upright.

2. Description of the Related Art

While beds, futons, hammocks and other sleeping support structures have been and are in use today to satisfy certain sleeping applications, the need for a simple structure (without the need for support from below) that can be installed, set-up and moved easily, allowing freedom of movement in any direction has long been needed for a variety of home, hospital bed, transfer, medical therapy, entertainment, relaxing and other sleeping requirements.

The need for a bed structure hanging under springs mounted in cross direction above the floor or ground is particularly pleasing and creates a feeling of euphoria that produces weightless feelings and a deep restfulness not found in any other existing beds. With the bed structure hanging under different weight load springs, sensations of floating can be lessened or increased for optimum comfort. This type of sleeping system also allows patients in hospitals to be easily and gently lowered onto a gurney to be transferred to another room without the need of a hoist. This bed tilts with an elder persons body weight making getting in and out of this sleeping system effortless.

SUMMARY OF THE INVENTION

The present invention is a bed structure suspended by six or more springs mounted, in a cross direction design, to the ceiling joists or any weight bearing and stable overhead structure. This bed structure system is attached to an under mattress platform or standard box spring secured from above, to the springs by chains or any variety of different or any type of constructed materials. Any type of mattress or sleeping pad may be placed and utilized on the flying bed platform or standard box spring. Six or more coil springs are attached to the ceiling by mounting standard eyebolts into the ceiling joists and hooking the coil spring end through the eyebolt. Three or more chains or any other suitable nylon straps, leather straps, steel cables or strong materials are hooked to the bottom of the coil spring hook. The flying bed platform or standard box spring is attached on both sides and at least one at both ends by the three or more chains or suitable strong materials. Any foam or coil spring mattress is then placed on the platform or standard box spring. The flying bed can now move horizontally 360 degrees in any direction, vertically up and down, in a rocking horse motion, side to side, looping spiral motions, a twisting bouncing motion as well as any combination of floating movements. Due to the specific geometry of the cross mounted spring direction design, the flying bed is safe from flipping over or causing any injury beyond a normal bed.

The platform assembly is preferably a standard box spring or one constructed of a wood (or any other suitable material) frame the outlined size of a twin, full, queen, or king size bed mattress. Or any larger size or any shape such as round, heart shaped, oval etc. The assembly is screwed together and covered with plywood (or any other suitable sheeting material) attached by screws or bonded with glue.

BRIEF DESCRIPTION OF THE DRAWINGS

FIG. 2 is a partially schematic view of a platform frame (6) bed (5) structure supported by six coil springs (3) and chains (4) suspended from an eyebolt (2) screwed into standard ceiling joists (1). The chains are held in place from slipping by six washers (8) by which screws (7) pass through the chain into the frame (6). The coil springs are manufactured such a way that each end has a steeply curved hook at both ends to slip into the eyebolt (2) and chain (4).

FIG. 1 is three different partially schematic views with the same descriptions as FIG. 2 but including views of only three chains (4) that criss-cross under the platform frame (6) to support a much heavier load on the bed. Also providing a side view of how the cross direction mounted springs (3) work in consort and conflict with and against each other to create balance and freedom of movement at the same time. The combination of these supports transfer the energy and weight in an outwardly direction from the center of the bed as well as contrasting (cross) directions, rightwardly and leftwardly around the perimeter of the bed. This unique cross direction pattern design is what sets this bed apart from all others and is the main reason for the unique feelings one experiences when lying on this sleeping system.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS

As required, detailed embodiments of the present invention are disclosed herein; however, it is to be understood that the disclosed embodiments are merely exemplary of the invention, which may be embodied in various forms. Therefore, specific structural and functional details disclosed herein are not to be interpreted as limiting, but merely as a basis for the claims and as a representative basis for teaching one skilled in the art to variously employ the present invention in virtually any appropriately detailed structure. The drawings constitute a part of this specification and include exemplary embodiments of the present invention and illustrate various objects and features thereof.

Certain terminology will be used in the following description for convenience in reference only and will not be limiting. For example, the words "upwardly," "downwardly," "rightwardly," and "leftwardly" will refer to directions in the drawings to which reference is made. The words "inwardly" and "outwardly" will refer to directions toward and away from, respectively, the geometric center of the embodiment being described and designated parts thereof. Said terminology will include the words specifically mentioned, derivatives thereof and words of a similar import.

Referring to the drawings in more detail, and in particular to FIG. 1, the reference number 1 generally designates a structure according to the present invention. The structure FIG. 1 includes a frame platform (6) and six coil springs...
(3) which fully supports the frame platform above the floor/ground. The structure FIG.1 further includes a system of support chains (4) which are connected to the springs (3) and eyebolts (2) which are secured into the ceiling or any other overhead support. The structure FIG.1 could include a greater or lesser number of coil springs (3) and those of a greater or lesser weight limit rating and are interchangeable to adjust for the weight of occupants. All of the coil springs (3) are mounted outwardly from the center of the frame platform (6) into the ceiling eyebolts (2) to stabilize the swinging motion. Half (three of the six) of the total number of springs (3) are mounted in a leftwardly direction from the center of the frame platform (6) while the other half of the total number of springs (3) are mounted in a rightwardly direction from the center of the frame platform (6) to stabilize the rocking motion and limit the upwardly and downwardly movement. Thus allowing the bed to move in any direction easily and then return to a still center more stable and rapidly than parallel mounted springs.

What is claimed and desired to be secured by Letters Patent is as follows:

1. A Flying Bed structure comprising: a) A bed frame platform having coil springs secured to it and the ceiling in counter acting crisscross directions using eyebolts and chains. That will support any mattress.

b) Six eyebolts are secured into the ceiling, six coil springs are secured to each eyebolt, three (or more) chains are secured to the bottom of each coil spring & then secured to bed frame platform.

2. This Flying Bed structure is a completely novel and unique utility of actions and movement providing sleeping sensations not found in any other bed.

3. This Flying Bed structure provides a tilting action that makes it easier to get into and out of any other non-motorized bed. And certainly much easier to get into or out of than traditional beds.

4-8. (canceled)

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