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(54) **See-saw**

(57) The present invention is for a playing equipment which can also be used as an physical exercise equipment. The equipment is a new kind of seesaw. The object of the present invention is to supply an equipment with more versatile possibilities of use than those of a conventional seesaw. The semicircular parts 3a, 3b are carried by support members 4a, 4b by the two stand

parts 5, 6. From the support members 4a, 4b there are protruding shaft ends along an imaginary shaft, which in figures 2 and 4 are indicated by a dashed line 8, for the swinging motion of the equipment. The shaft ends are for example by their shape in constant mesh with rubber bushings which form the damping means 7 and which are firmly mounted to the stand.

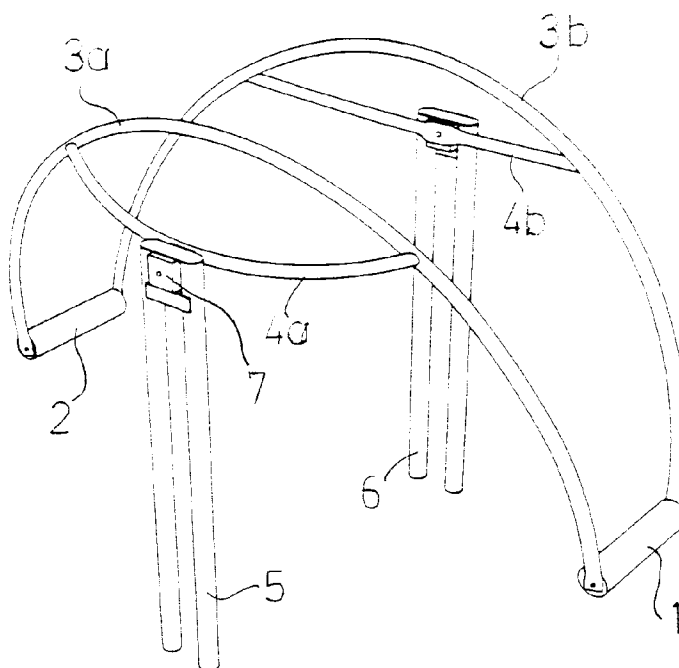


Fig 1

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Description

The present invention is for a playing equipment which can also be used as an exercise equipment. The equipment is a new kind of seesaw.

Basically a seesaw is a straight board which can swing around a shaft at the middle of the board, with one person sitting on each end of the board. The seesaw has been further developed from these basic elements, both concerning the swinging function, for example combining the swing shaft with spiral springs which have an affect on the movements and by damping elements which interfere during the final stage of the movement when the outer ends of the board may hit the ground and there is a certain risk for accidents. Damping elements for this purpose may be mounted either at the outer ends of the seesaw or close to the swing shaft.

As seesaws are most often used as playing equipment for children, there are problems due to different weight of those who use the seesaw. Also in this respect the equipment has been further developed, for example by displacable weights which compensate for the own weight of those using the seesaw.

The general object of the present invention is an equipment with more versatile possibilities of use than those of a conventional seesaw. One object of the invention thus is to create an equipment which can be used by persons of very different weights or by one person alone. Another object of the invention is to make the equipment more versatile and useful thereby that it can be used in various positions and not only for persons sitting down. A further object of the invention is to provide an equipment which fulfils the safety requirements which are put up for equipments of this kind.

The invention will be described more in detail below with reference to the preferred embodiment which is shown in the enclosed figures.

Figure 1 shows a perspective view of the equipment of the invention.

Figures 2, 3 and 4 show other views of the equipment of figure 1.

The equipment according to the invention comprises joining members 3a, 3b, the outer ends of which are joined together by sitting or standing members 1, 2. The equipment is carried by a stand which has two doubled legs 5, 6, at the upper ends of each of the legs there is a bushing 7 for shaft ends which by means of carrying members 4a, 4b carry the equipment. The swinging motion takes place around an imaginary swing shaft 8 which in practice consists of the above mentioned two shaft ends.

In the embodiment of the invention, shown in the figures, the joining members are two semicircular parts 3a, 3b. At their respective outer ends they are joined together by means of two cylindrical sitting or standing members 1, 2, which preferably have a surface made from a suitable plastic or rubber material in order both to eliminate the risk for slipping and to give a comfortable

feeling for those using the equipment.

The semicircular parts 3a, 3b are, by means of support members 4a, 4b, carried by the two stand parts 5, 6. From the support members 4a, 4b there are protruding shaft ends along an imaginary shaft, which in figures 2 and 4 are indicated by a dashed line 8, for the swinging motion of the equipment. The shaft ends are, for example by their shape, in constant mesh with rubber bushings which form the damping means 7 and which are firmly mounted to the stand. The rubber bushing and the shaft end are known elements and bring with them a progressively increasing damping of the swinging motion when the swinging part deflects from its horizontal middle position. By this it is achieved both that the risk that the outer ends will hit the ground in practice is eliminated and that a difference in loading on the two positions 1 and 2 only means a minor displacement of the position of equilibrium for the swinging part. The equipment can thereby be used by persons having major differences in weight and even by one person alone. Also the dimensioning described below is essential in this respect.

Another advantage of the equipment according to the present invention is that it can be used in a multitude of different ways. The members 1 and 2 can be used both for sitting and standing, at which the semicircular joining members by their shape are suited for use as handles and make different positions possible. It is also possible to perform various movements and physical exercises with the equipment.

In order to achieve the proper function of the equipment certain dimensional relations are essential. Thus, the height H of the swing shaft above the ground, at which the equipment is positioned, shall be approximately the same as the linear distance D from the swing shaft to each of the two members 1, 2. This distance is also somewhat greater than the radius of the semicircular parts 3a, 3b. However, the equipment can in these and other respects be varied within the frame of the invention, for example concerning shape and choice of material. The damping influence onto the movement which is affected by the rubber bushings can also be influenced by the choice of a rubber material with properties as wanted.

Claims

1. Swinging play and exercise equipment having one part turning around a shaft comprising joining members (3) for two at each end of the turning part positioned sitting or standing members (1, 2), characterized therein, that the two members (1, 2) are situated below a horizontal plane through the shaft (8) and that the joining member (3) between the two members (1, 2) extends above this plane.
2. Equipment according to claim 1, characterized

therein, that it comprises damping members (7) which exercise a continuous progressive damping of the swinging motion from a horizontal starting position for the equipment.

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3. Equipment according to claim 2, characterized therein, that the damping members (7) are rubber bushings.

4. Equipment according to claim 3, characterized therein, that rubber bushings (7) are meshing with the ends of the swing shaft (8) and are mounted on-to a stand (5, 6) which carries the equipment. 10

5. Equipment according to any of the preceding claims, characterized therein, that the joining member (3) has a curved shape. 15

6. Equipment according to claim 5, characterized therein, that the joining member (3) is essentially semicircular. 20

7. Equipment according to any of the preceding claims, characterized therein, that the linear distance (D) from a sitting or standing member to the shaft (8) is essentially the same as the height (H) of the shaft above the ground on which the equipment is placed. 25

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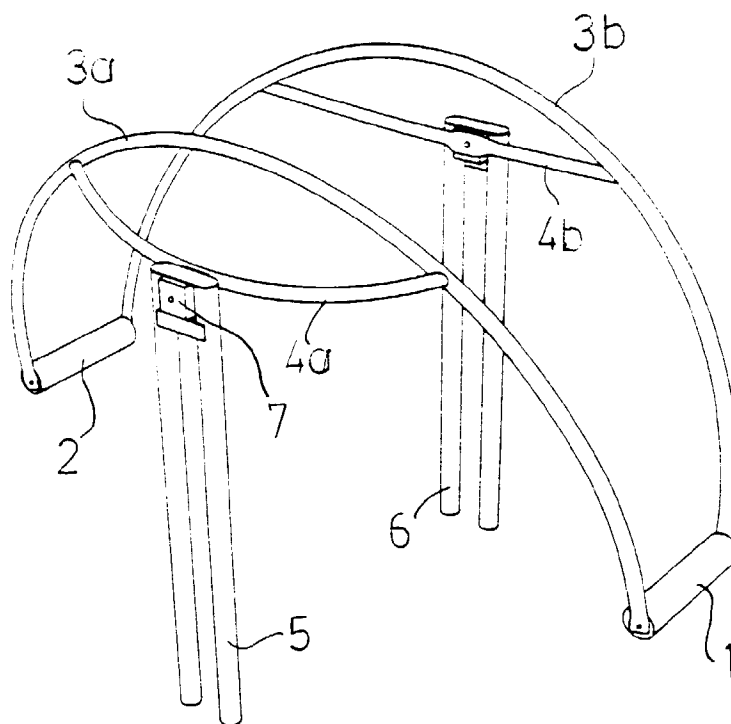


Fig 1

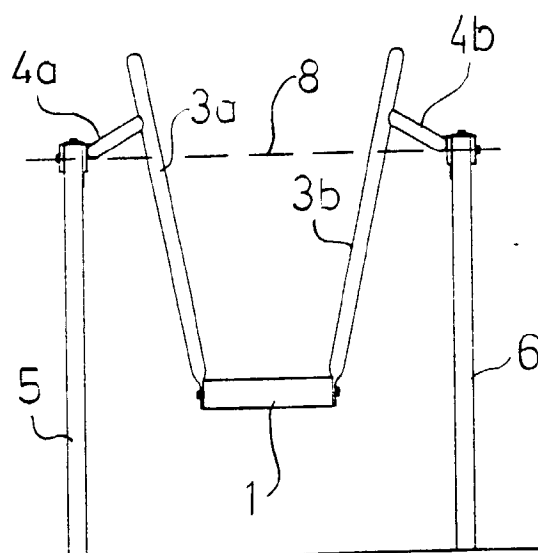


Fig 2

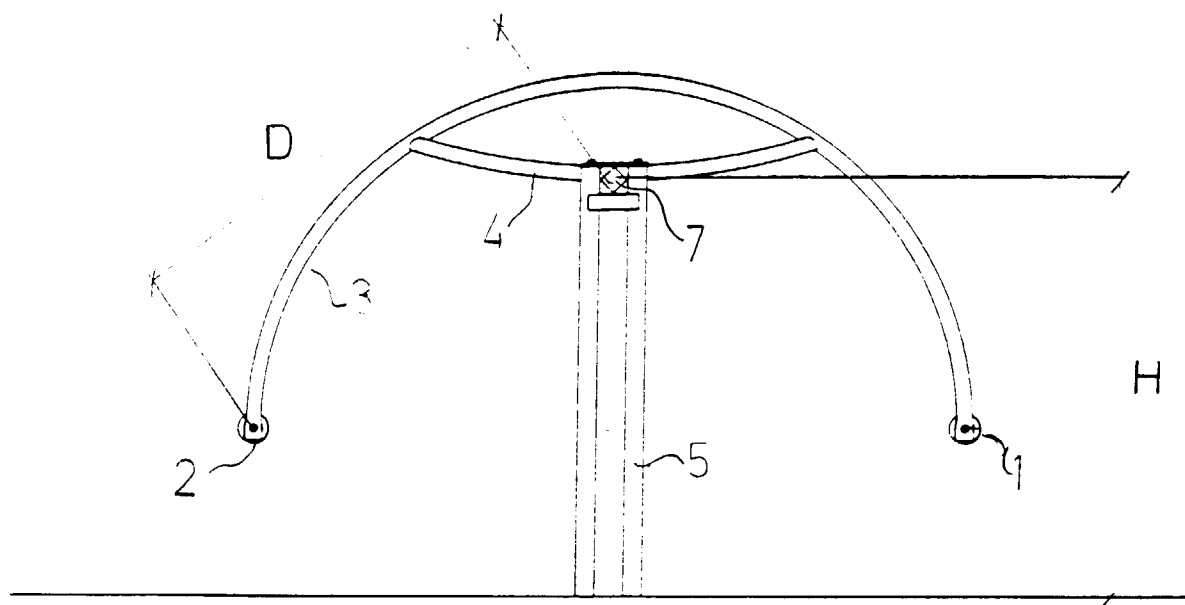


Fig 3

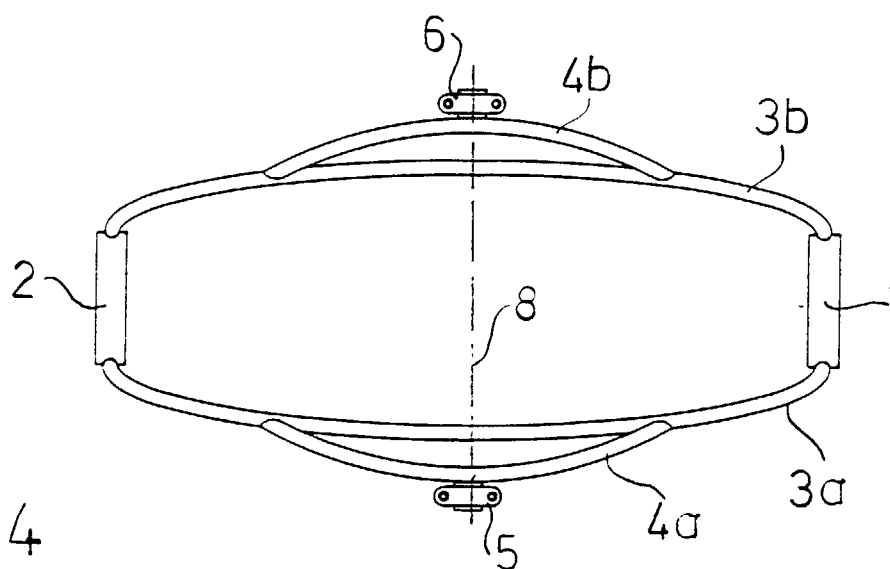


Fig 4