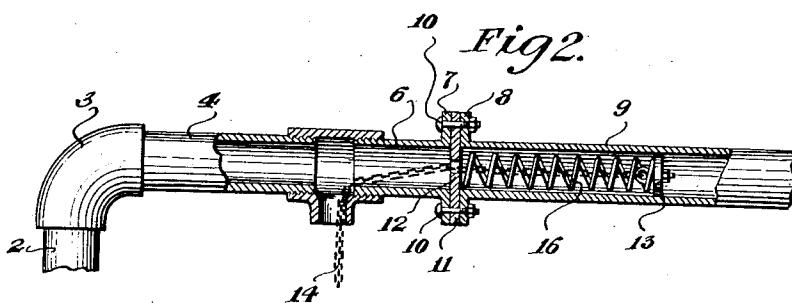
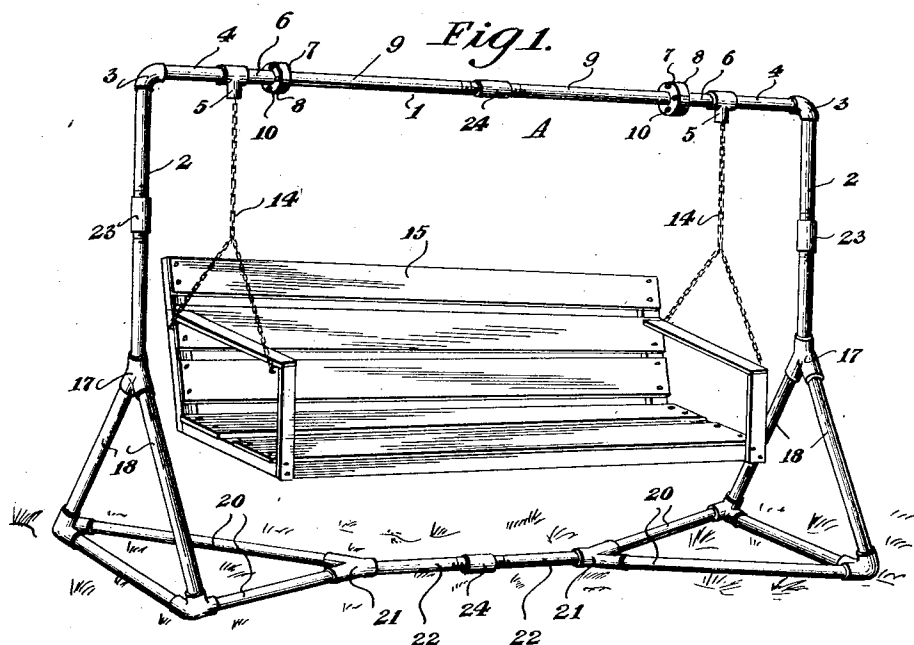


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 SWING.
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SWING.

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To all whom it may concern:

Be it known that I, PATRICK W. PADDEN, a citizen of the United States, residing at Maumee, in the county of Lucas and State of Ohio, have invented certain new and useful Improvements in Swings, of which the following is a specification.

This invention relates particularly to an improved swing or hammock support, and consists more particularly in the provision of a support which is formed to comprise a frame of stanch and rigid construction which will be self contained and which will stand by itself without requiring the services of extraneous supporting means.

Another object of the invention resides in a support of the above character which is formed primarily from connected sections of metallic tubing, which sections are so related that a firm and substantial base structure will be provided for the frame to prevent the latter from tilting or rocking about its base, the upper portion of said frame being of substantially U-shaped construction and from which a swing, couch, hammock or other similar device may be readily suspended.

A further object of the invention resides in providing the upper longitudinal portion of the frame with an improved resilient spring structure with which flexible cables are connected for the purpose of effecting the swinging and resilient suspension of the cooperative swing mechanism, said spring structure being of such character that in the event of damage thereto, the descent of the cables will be automatically arrested, thus tending to prevent injury to those occupying the swing mechanism and to render the use of the frame safe and reliable.

Other features of the invention will be in part obvious and in part pointed out hereinafter.

For a further understanding of the invention reference is to be had to the following description and to the accompanying drawing, in which:

Figure 1 is a perspective view of the improved swing support comprising the present invention, and,

Fig. 2 is a detail vertical sectional view taken through the spring structure of the support.

In the preferred embodiment of the invention, use is made of a swing or couch supporting frame which has been indicated in

its entirety by the numeral 1. As shown, this frame is composed of a plurality of metal pipe sections or tubing, which are so formed and assembled that the frame will be capable of standing alone or unsupported.

The frame embodies an upper U shaped portion A which is composed of vertically disposed sections 2 which terminate upwardly in elbows 3, the latter being connected with short horizontal sections 4. The sections 4 are, in turn, connected with T members 5 which latter have their opposite ends suitably connected with relatively short intermediate sections 6. These latter sections terminate at one end in flanges 7 which are designed for cooperation with similar flanges 8 provided upon the longitudinal ends of a central tubular section 9. The flanges 7 and 8 are securely clamped together by means of bolts or their equivalents 10, and said flanges are so formed as to receive between them a plurality of disk members 11 which are provided with central openings 12.

Located within the central section 9 is a plurality of freely movable collars 13 with which are connected the upper and inner ends of a pair of flexible swing supporting cables 14. These cables pass through the openings 12 provided in the disk members and are then directed outwardly and downwardly through the openings provided in the T members 5. The lower ends of the said cables 14 may be suitably connected with any desired manner of swing 15, which in turn is adapted to include hammocks, couches or any other suitable type of swinging support. Expansive coil springs 16 are confined between the disk members 11 and the collars 13, and normally serve to provide a resilient support for the swing structure 15, whereby the latter will be rendered more comfortable in use than if the same were rigidly attached to the portion A. It will be observed that in the event of damage or breakage to either one or the other of the springs 16, the cable connected with such damaged member will be prevented from dropping by the presence of the disk members 11 and the collars 13. This is a feature that renders the use of the frame safe and reliable.

The lower ends of the vertical sections 2 are connected with Y fittings 17, from which depend diverging arms 18, the latter having their lower ends provided with elbow fittings 19. To prevent the arms 18 from

spreading and at the same time to provide a substantial base structure for the frame, said fittings 19 are connected with inwardly converging members 20, which have their inner meeting ends connected with Y fittings 21, which are joined by means of a horizontally disposed connecting section 22. By virtue of this construction it will be observed that the frame may be firmly and rigidly positioned upon a lawn, porch or other suitable base, and that by reason of the construction and formation of the arms 18 and the connecting base structure, the operative position of the frame will be positively maintained, and that undue tilting or rocking thereof will be prevented.

From the foregoing description taken in conjunction with the accompanying drawing, it will be apparent that the present invention provides a swinging support of considerable utility and one fully capable of carrying out the ends for which it has been designed. The various sections of the frame are threadedly connected, and this is a feature which enables the frame to be readily collapsed when the same is out of use or when being transported. If desired, the vertical sections 2 may be provided with the turn buckles 23 for the purpose of regulating the height of the frame and similarly, the central section 9 and the connecting section 22 may be also provided with turn buckles 24, whereby the width of the frame may be adapted to suit the particular requirements of the associated swing structure.

What is claimed is:

1. A swing supporting frame comprising

a structure composed of connected pipe sections and formed to include a relatively wide base portion and an upper horizontal supporting section, a spring structure mounted within said horizontal section, cables connected with said spring structure and extending outwardly and downwardly from said section, and a swing structure connected with the lower ends of said cables.

2. A frame of the class described comprising a plurality of assembled pipe sections including a relatively broad base portion and a horizontal swing supporting section, coil springs mounted within said section, fixed abutments against which certain of the ends of said springs engage, movable members against which the other ends of said springs resiliently engage, flexible cables connected with said movable members, and a swing structure connected with the lower ends of said cables.

3. In a supporting frame of the class described, a U shaped longitudinal swing supporting member, disks rigidly mounted in connection with said member, movable elements slidably mounted within said member, coil springs interposed between said disks and said elements and normally tending to force the latter away from said disks, cables connected with said elements and passing through said springs so as to extend outwardly and downwardly from said member, and a swinging structure connected with the lower ends of said cables.

In testimony whereof I affix my signature.

PATRICK W. PADDEN.