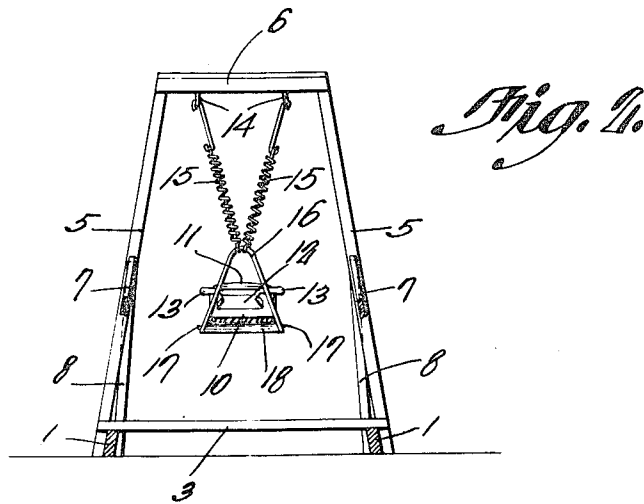
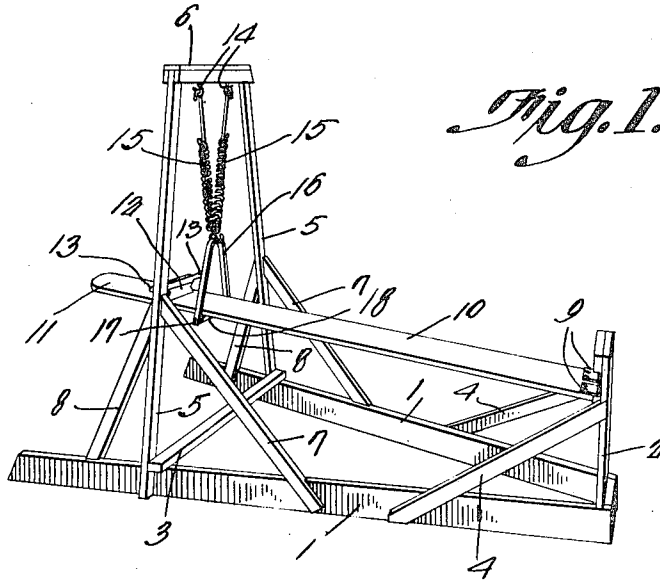


W. J. DONNENWERTH.
SEESAW.
APPLICATION FILED SEPT. 12, 1912.

1,060,590.

Patented May 6, 1913.



Witnesses

J. P. Dineen
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UNITED STATES PATENT OFFICE.

WILLIAM J. DONNENWERTH, OF CHARITON, IOWA.

SEESAW.

1,060,590.

Specification of Letters Patent.

Patented May 6, 1913.

Application filed September 12, 1912. Serial No. 720,071.

To all whom it may concern:

Be it known that I, WILLIAM J. DONNENWERTH, a citizen of the United States, residing at Chariton, in the county of Lucas and State of Iowa, have invented a new and useful Seesaw, of which the following is a specification.

The present invention relates to improvements in see-saws.

10 The primary object of the present invention is the provision of a novel arrangement and supporting medium for a see-saw, whereby a single person may operate the same, the board being so disposed as to have the counter-balancing effect of the second
15 person taken care of by a resilient support, said resilient support being so disposed as to be readily adjusted relatively to the swinging board and thus accommodate persons of varying weights.

20 With the foregoing and other objects in view which will appear as the description proceeds, the invention resides in the combination and arrangement of parts and in the details of construction hereinafter described and claimed, it being understood that changes in the precise embodiment of the invention herein disclosed can be made within the scope of what is claimed without
30 departing from the spirit of the invention.

In the drawings—Figure 1 is a perspective view of the complete apparatus, Fig. 2 is a section taken through the board and adjacent portion near the resiliently supported
35 end thereof.

Referring to the drawings, the numeral 1 designates the two supporting plates or boards which are disposed at an incline to each other and at their converging ends are
40 connected together by means of the upright post 2, while their diverging ends are connected together by means of the brace 3.

The inclined braces 4 are connected to the base plate 1 and to the opposite sides of the
45 post 2 so as to brace the board, while connected to the base plate 1 near the diverging ends thereof are the two upwardly extended and inclined posts 5, which are bridged at their upper end with the cross head 6. The
50 posts 5 are braced by the respective pairs of inclined braces 7 and 8 whose lower ends are connected to the base plate 1, the braces 7 being connected upon the outer side thereof, while the braces 8 are connected upon the
55 inner side thereof. By this means the supporting structure is made rigid, yet by rea-

son of the fact that the different connections are made by bolts, the same may be readily knocked-down for transportation.

Secured to the post 2 near the upper end
60 thereof and upon the face adjacent to the supports 5 by means of a plurality of hinges 9, is the see saw or swinging member 10, which is of such a length as to extend between and beyond the inclined supports 5
65 so as to present the seat portion 11 thereof between the outer free ends of the plates 1, so that the occupant thereof sitting upon or straddling the seat 11 will have the feet presented to the ground between the sup-
70 porting plates 1 and thus provide ample space for the manipulation of the see-saw.

Carried by the see-saw or swinging member 10 beyond the support 5 is a strip 12 carrying the two hand grips 13, said hand grips
75 13 being disposed in ready access to the occupant of the swinging member when seated upon the seat 11 thereof.

In order to provide a counter-balancing means for the weight of the person seated
80 upon the seat 11 of the swinging member 10, and thus assist in the elevation of said swinging end and also to provide a cushioned descension to the free end, two hooks 14 are connected to the under side of the
85 cross piece 6 and have connected thereto the upper terminals of the two coiled springs 15, the lower terminals of said coiled springs 15 being connected to the bridging member of the bail 16, the lower terminals of the bail
90 16 being pivotally connected by means of the pins 17 to the outer ends of the cross piece 18. This cross piece 18 as shown, is disposed to rest below the swinging member 10 and by reason of the fact that it is not rigidly or fixedly connected to the swinging
95 member 10, the same may be adjusted or slid relatively to the hinges 9 to thus provide a means for accommodating persons of various weights upon the seat 11, the distance
100 of the cross piece 18 from the hinges 9 with the resilient support 15 increasing or decreasing the leverage of the swinging member 10 and consequently compensating for the increase or decrease of the weight of the
105 person mounted upon the seat 11 of the swinging member 10. This feature is of the greatest importance, in that the cross bar 18 may be adjusted so as to permit the springs 15 to act as the second party to a see-saw but
110 in a more even and cushioned manner and thus relieve the swinging member 10 of any

jerking motion that might tend to throw the occupant from the seat 11.

It is evident that the present device may be provided with a canopy or sun-shade which will be properly supported from the supports 5.

What is claimed is:

1. A see-saw, having a swinging member hingedly connected at one end, and provided with a seat upon the free end, of a resilient supporting medium for the free end thereof removably attached to the free end of the swinging member to compensate for various weights upon the free end of the swinging member.

2. A see-saw, comprising a supporting base, a swinging member hingedly connected at one end and carried by the base, the free end constituting a seat, a cross piece ad-

justably mounted below the free end of the swinging member, a resilient connection for supporting said cross piece, and means carried by the base for supporting said resilient connection.

3. A see-saw, comprising a base, a swinging member hinged at one end to the base, a seat and hand grip carried upon the free end thereof, a bail having a cross piece removably surrounding the free end of the swinging member, and a resilient support for said bail.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

WILLIAM J. DONNENWERTH.

Witnesses:

B. E. WILLIAMSON,
WEBB KULTZ.