E. M. MAXWELL AND I. K. HEARN.

SEESAW.

APPLICATION FILED MAY 17, 1921.

1,429,289. Patented Sept. 19, 1922.

2 SHEETS—SHEET 1.

Fig. 1.

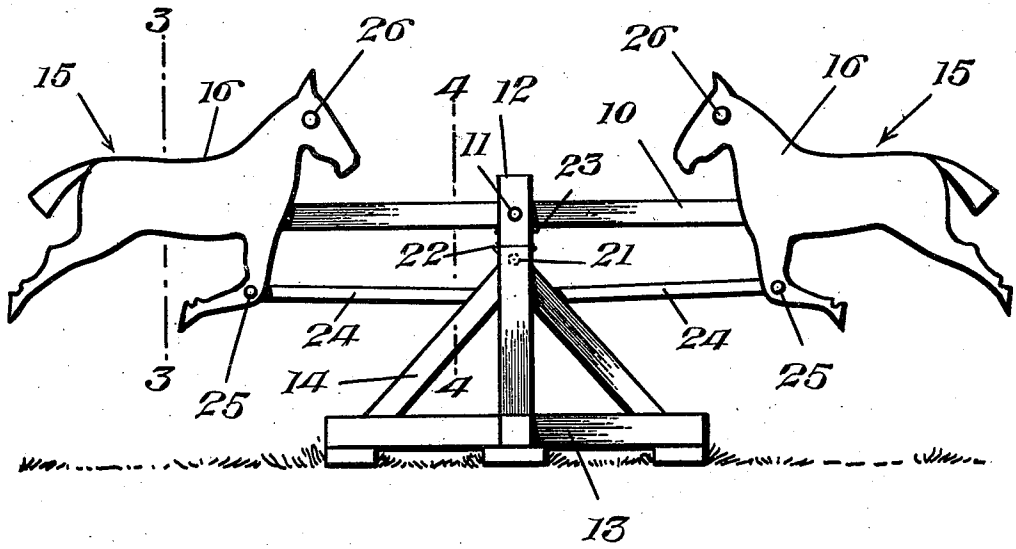
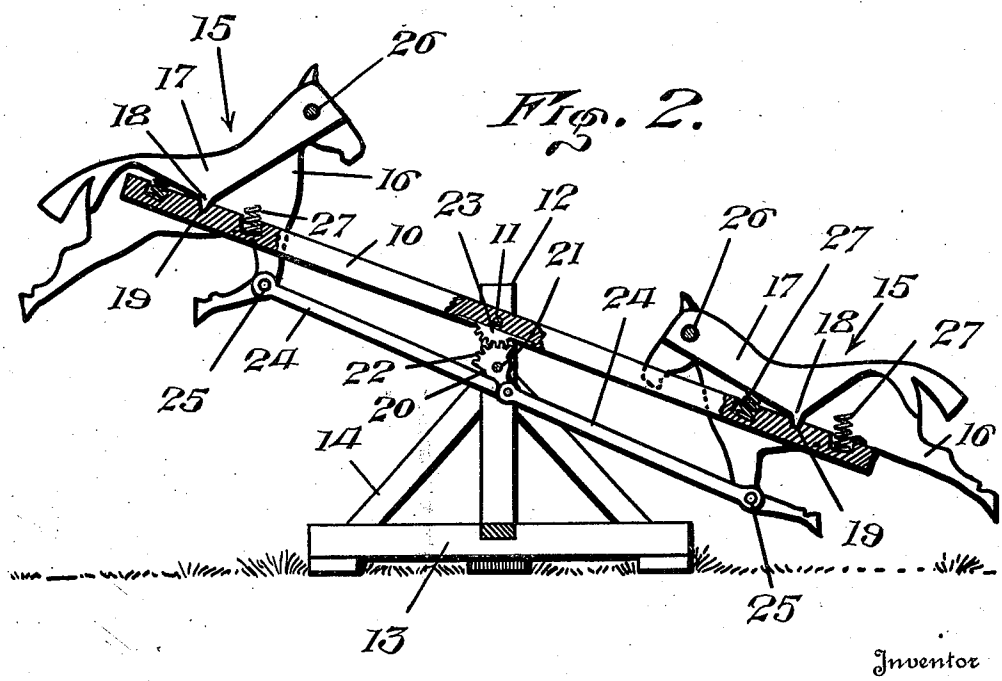


Fig. 2.



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2 SHEETS—SHEET 2.

Fig. 5.

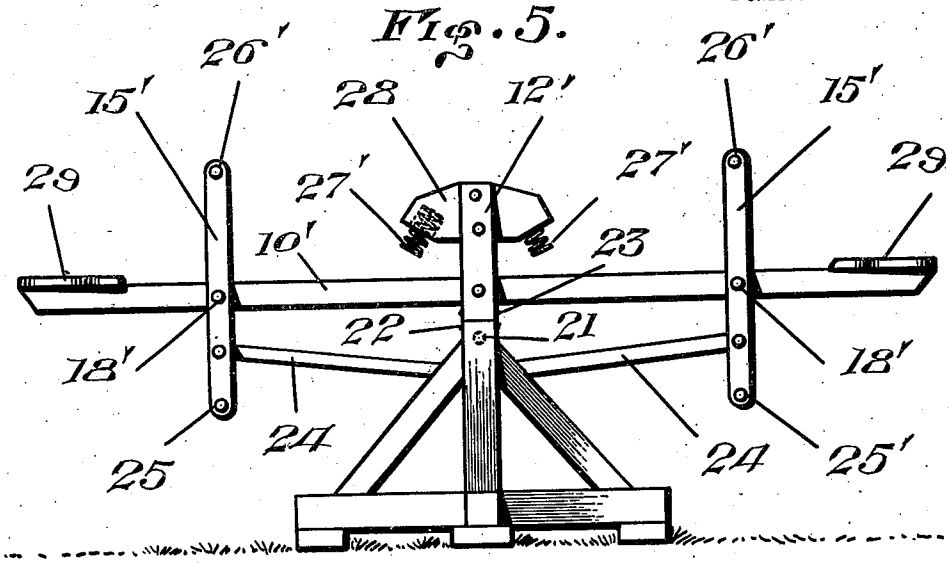


Fig. 3.

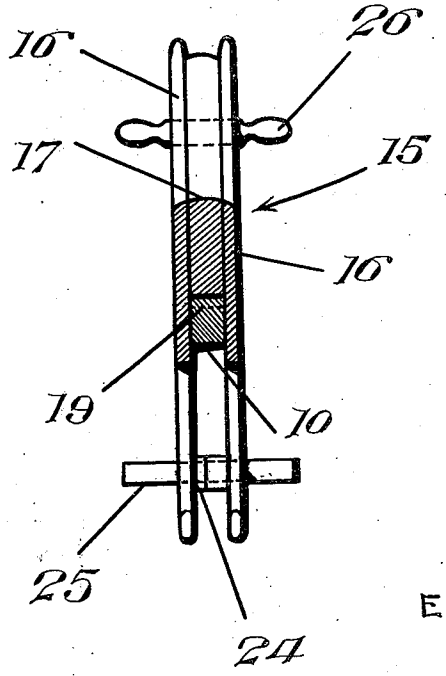
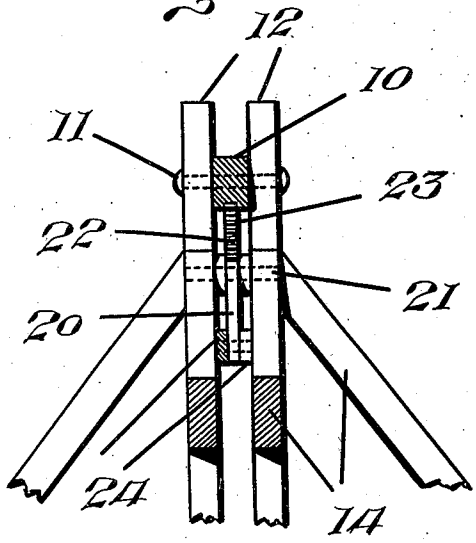


Fig. 4.



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UNITED STATES PATENT OFFICE.

ERASTUS M. MAXWELL AND IRA K. HEARN, OF CARDINAL, VIRGINIA.

SEESAW.

Application filed May 17, 1921. Serial No. 470,406.

To all whom it may concern:

Be it known that we, ERASTUS M. MAXWELL and IRA K. HEARN, citizens of the United States, residing at Cardinal, in the county of Mathews and State of Virginia, have invented certain new and useful Improvements in Seesaws; and we do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

The present invention relates to see-saws or teeter devices for children, and aims to provide a novel and improved device of that character for the amusement, exercise and enjoyment of children.

It is the object of the invention to provide a see-saw or teeter device having novel and improved actuating mechanism for operation by the occupants, to efficiently operate or rock the teeter member and to add enjoyment to the device when in operation.

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

The invention is illustrated in the accompanying drawings, wherein:—

Figure 1 is a side elevation of the device with the teeter member in horizontal position.

Fig. 2 is a view, partly in side elevation and partly in section, of the device with the teeter member tilted.

Figs. 3 and 4 are enlarged sectional views on the respective lines 3—3 and 4—4 of Fig. 1.

Fig. 5 is a side elevation of a modified construction.

The device comprises a teeter member or bar 10 of suitable length, fulcrumed intermediate its ends, as at 11, within the upper end of a slotted standard or post 12, which is mounted on a suitable base 13 and braced from the base as at 14.

Rocking or oscillating members 15 are mounted on the bar 10 near the ends thereof, and, as shown, are cut to represent horses or other animals, which the occupants can sit astride. Each member 15 is composed of the side plates 16 extending across the opposite sides of the bar 10, and an intermediate piece 17 spacing the plates 16 apart, and located above the bar 10 and constituting a rocker mounted on the bar. The piece or rocker 17 has a lug 18 engaging in a notch 19 in the bar 10, to retain the member 13 in proper position for rocking movement on the bar.

The teeter bar or member 10 is oscillated by the rocking movement of the members 15 relatively to the bar 10, and, for this purpose, a lever 20 is fulcrumed, as at 21, within the standard 12 below the bar 10, and has an upper short arm provided with a gear segment 22 meshing with a gear segment 23 secured to the bar 10 under the fulcrum 11. The lower long arm of the lever 20 is connected by links or bars 24 with the members 15 below the bar 10, whereby the oscillation of the members 15 relatively to the bar 10 will reciprocate the links 24 and swing the lever 20, and the lever being geared to the bar 10 will impart oscillatory or rocking movement to said bar.

Transverse foot rests 25 extend through the plates 16 below the bars 10, on which the feet of the occupants seated on the members 15 can be placed, and transverse handle bars 26 extend through the member 15 above the bar 10 to be grasped by the hands, so that said members can be given a rocking movement relatively to the bar 10 by the persons seated on said members 15. The foot rests 25 may serve as the pivots for the links 24 between the plates 16, as shown, and the occupant of each member 15 by placing his or her foot on the foot piece 25 and grasping the handle bar 26 can exert manual power, in addition to the swaying movement of the body, to rock the bar 10 by the action of the lever 20 and gear segments. The long arm of the lever 20 to which the links 24 are connected, can be of any suitable length, so as to increase the leverage obtained, and buffer springs 27 are supported on the bars 10 underneath each rocker 17 at the opposite sides of the fulcrum lug 18, to cushion the members 15 at the limits of the rocking movement on the bar 10, and to create a rebound action, to assist in oscillating the device.

In the modified form shown in Fig. 5, the construction is the same, with some changes as presently described. Instead of using the oscillatory members 16 to be straddled by the occupants for riding same, levers 15′ are provided, the same extending across the bar 10′ and being fulcrumed thereto, as at 18′,

and the links 24 are connected to the lower arms of the levers 15′. The lower and upper arms of said levers have the foot pieces 25′ and handle bars 26′, respectively, and seats 29 for the occupants are secured on the end portions of the bar 10′ beyond the levers 15′. The persons seated on the seats 29 can place their feet on the foot pieces 25′ and grasp the handle bars 26′ whereby to oscillate the levers 15′ relatively to the bar 10, for rocking said bar. A block 28 secured within the upper projecting end of the standard 12′ has buffer springs 27′ for the contact of the opposite arms of the bar 10′ in its limits of movement, to cushion said bar 10′ and create a rebound action for oscillating the device.

Having thus described the invention, what is claimed as new is:—

1. A device of the character described comprising a standard, a bar fulcrumed to the standard for oscillation about an axis, a member also fulcrumed to the standard for oscillation about another axis, said member and bar having gear segments meshing with one another for oscillating said bar when said member is oscillated, and operating means carried by the bar connected to said member.

2. A device of the character described comprising a standard, a bar fulcrumed to the standard for oscillation about an axis, a movable member carried by the standard, a gear connection between said member and bar for transmitting the oscillatory motion to said bar by the movement of said member, and operating means carried by the bar connected to said member.

3. A device of the character described comprising a standard, a bar fulcrumed to the standard for movement about an axis, members carried by the bar on which the occupants can be seated astride said members, each of said members having side plates extending across the opposite sides of said bar and an intermediate portion having a fulcrum seated on said bar, and operating means connected to said members for moving said bar by the oscillation of said members.

In testimony whereof we have signed our names to this specification in the presence of two subscribing witnesses.

ERASTUS M. MAXWELL.
IRA K. HEARN.

Witnesses:
C. H. Miles,
Robt. E. Hadden.