E. F. STOELTZING.

AMUSEMENT DEVICE.

APPLICATION FILED FEB. 19, 1918.

1,315,431. Patented Sept. 9, 1919.

Fig. 1.

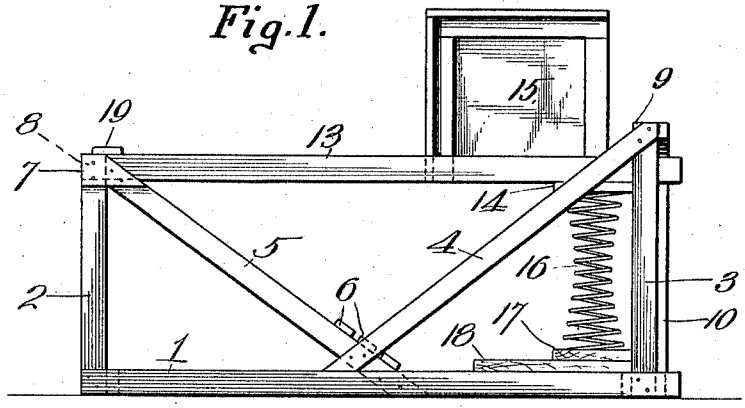


Fig. 2.

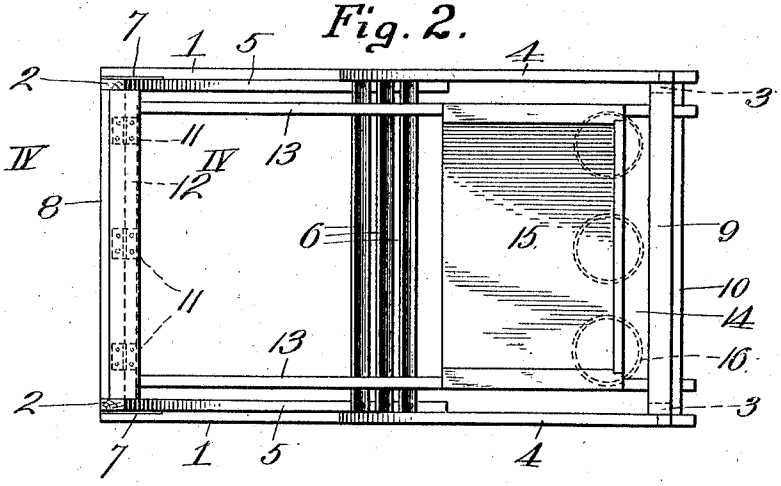


Fig. 3.

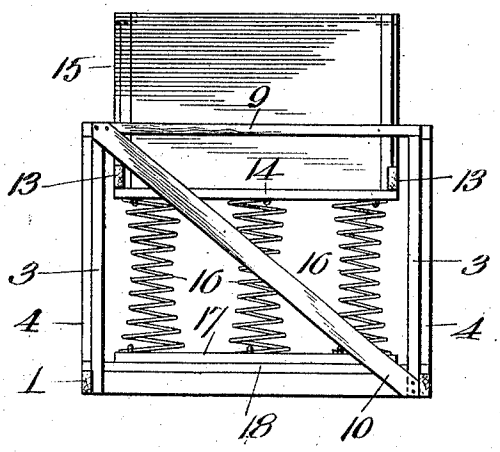
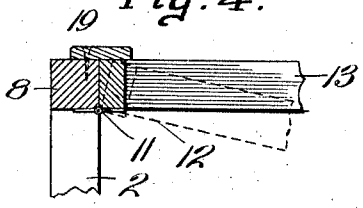


Fig. 4.



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AMUSEMENT DEVICE.

1,315,431. Specification of Letters Patent. Patented Sept. 9, 1919.

Application filed February 19, 1918. Serial No. 218,906.

To all whom it may concern:

Be it known that I, ERNST F. STOELTZING, a citizen of the United States, residing at Kansas City, in the county of Jackson and State of Missouri, have invented certain new and useful Improvements in Amusement Devices, of which the following is a specification.

This invention relates to amusement devices and more particularly to bouncers for the amusement and entertainment of children, my object being to produce a device in which a child may be seated and bounce himself up and down gently or strenuously without danger of a fall.

A further object is to produce a bouncer of simple, strong, durable, and cheap construction, which is so formed that the occupant cannot dispose a hand or foot in such a position as to endanger it through the operation of the device.

With these objects in view, the invention consists in certain novel and useful features of construction and combination of parts as hereinafter described and claimed: and in order that it may be fully understood, reference is to be had to the accompanying drawing, in which:

Figure 1 is a side elevation of a bouncer embodying the invention.

Fig. 2 is a top plan view of the same.

Fig. 3 is a rear elevation of the same.

Fig. 4 is an enlarged fragmentary view taken on the line IV—IV of Fig. 2.

In the said drawing where like reference characters identify corresponding parts, 1 indicates a rectangular base composed of bars, and 2 and 3 are bars erected upon the seat frame at its corners and respectively constituting front and rear corner bars. The rear corner bars which preferably extend somewhat higher than the front corner bars, are braced from the sides of frame 1 by downwardly and forwardly inclined braces 4. The front corner bars are likewise braced by inclined braces 5 extending downwardly and rearwardly from bars 2 and secured at their lower ends to bars 4 and the side bars of frame 1. The framework thus described is light, yet rigid and strong, and bridging the space between braces 5 and secured to the latter are cross pieces 6 constituting a foot-rest as hereinafter explained, and to make the frame still more rigid, the upper ends of the corner bars 2 and braces 5 are united by metal reinforce plates 7.

8 is a crossbar connecting the upper ends of the bars 2, and 9 is a crossbar connecting the upper ends of bars 3; and secured to the upper end of one of the bars 3 and at its rear end to the lower end of the other bar 3, is an inclined brace 10, which brace performs the function of a stop, as hereinafter explained.

A swing-frame hinged as at 11 to the crossbar 8 of the framework, for movement up and down, comprises an end bar 12, a pair of side bars 13, and a crossbar 14, and one of said side bars projects through the angular space at the rear end of the machine of which brace 10 forms the hypotenuse, and secured to said side bars 13 near their rear or free ends is a forwardly facing seat 15 whereon a child may sit and place his feet upon the cross strips 6.

To hold the rear end of the swing-frame normally elevated and to reëlevate the same after each downward swinging movement thereof, one or more springs 16 are secured to and interposed between crossbar 14 and an underlying crossbar 17 secured in rigid relation to the side bars of frame 1 or to a crossbar 18 secured to the side bars of said frame. To guard against any chance of the child leaning forward and getting a finger pinched between the crossbar 12 or one of the bars 13, and the crossbar 8, a cross strip 19 is secured to the upper edge of said crossbar 8 and overlaps the crossbar 12 and the front ends of bars 13 sufficiently to guard against the insertion of a finger between bar 8 and bar 12 when the swing-frame is depressed and the injury which would be sustained by the quick reëlevation of the swing-frame. It will also be understood that the parts will be so proportioned that a child upon the seat cannot place his hand below the brace or stop 10 and hence cannot get his fingers pinched between the rear ends of either bar 13 and crossbar 9.

Assuming that a child is upon the seat 15, he will operate the device by simply bouncing up and down, the springs yielding and then reacting to reëlevate the seat, the rapidity of the bouncing movement of course depending largely on the energy of the operator, that is to say, the device will operate relatively in a slow or gentle manner or vigorously and quickly.

From the above description it will be apparent that I have produced what I term a bouncer, which embodies the features of advantage mentioned as desirable in the statement of the object of the invention, and while I have illustrated and described the preferred construction of the device, it will be apparent that it is susceptible of various structural changes without departing from the spirit and scope of the appended claims.

I claim:

1. A bouncer comprising a rectangular frame having a stop bar at its rear end, a foot brace between its ends, and a cross piece rearward of the foot brace; a swing frame fitting within the first-named frame and hinged at its front end to the front end of the first-named frame to swing up and down within the latter, and extending under the stop bar to be limited in its upward movement thereby, a seat carried by the swing frame and facing the foot brace, and a spring interposed between the cross piece and seat to exert lifting force upon the latter and said swing frame.

2. A bouncer, comprising a skeleton rectangular frame, inclined braces extending from the upper front and rear corners to the bottom of said frame and secured together near their lower ends, foot braces connecting the inclined braces running from the front upper corner of the frame, a cross piece hinged to the front upper corner of the frame, a pair of longitudinal bars secured to the hinged cross piece, a brace secured to the frame at the rear end thereof and overlying one of the longitudinal bars, a plurality of springs for exerting upward pressure on the longitudinal bars, and a forwardly facing seat mounted upon said longitudinal bars.

In testimony whereof I affix my signature.

ERNST F. STOELTZING.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."