J. H. SKEEL.

SWING.

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1,320,714. Patented Nov. 4, 1919

Fig. 1.

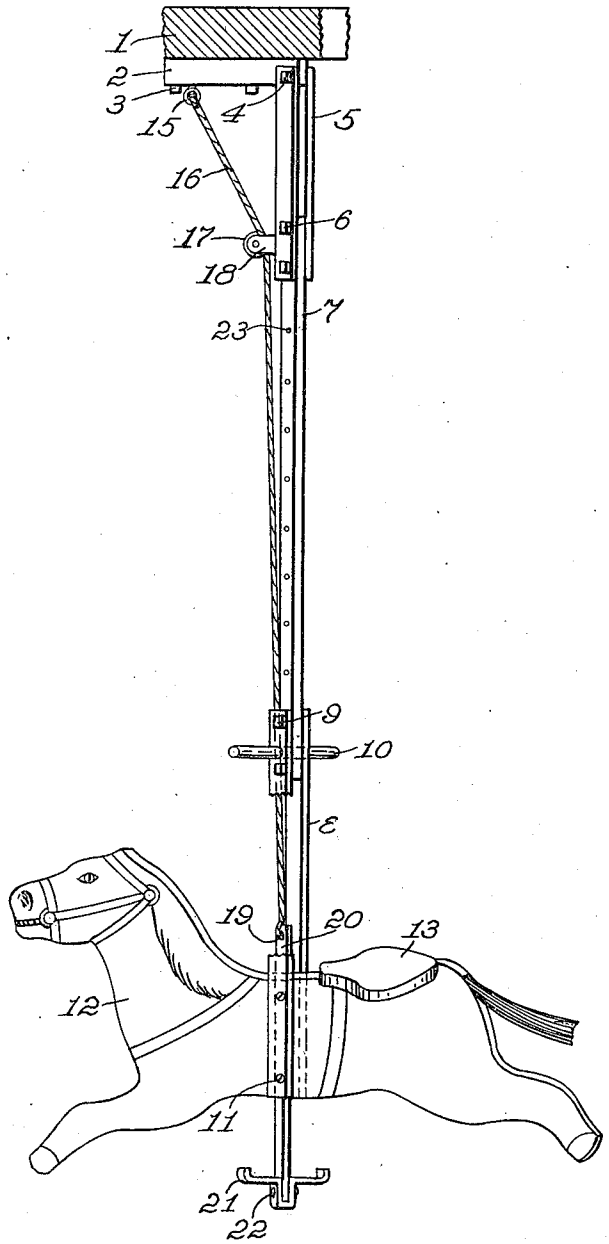
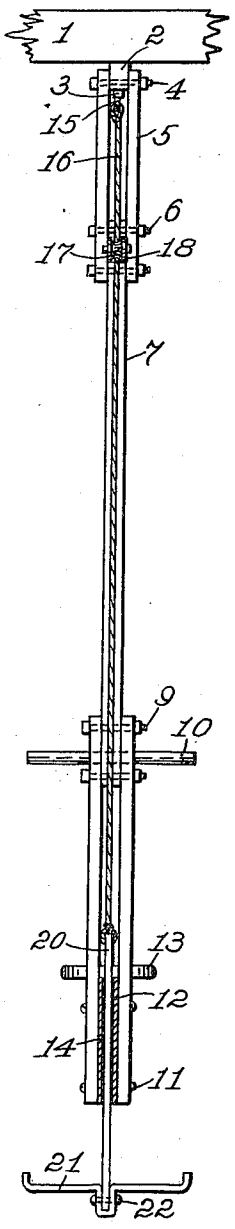


Fig. 2.



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UNITED STATES PATENT OFFICE.

JOHN H. SKEEL, OF PARKERSBURG, IOWA.

SWING.

1,320,714. Specification of Letters Patent. Patented Nov. 4, 1919.

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To all whom it may concern:

Be it known that I, JOHN H. SKEEL, a citizen of the United States of America, and a resident of Parkersburg, Butler county, Iowa, have invented certain new and useful Improvements in Swings, of which the following is a specification.

My invention relates to improvements in swings, and the object of my improvement is to supply positively-actuated means operable by the rider of a child's swing for easily swinging it without inconvenient or unnecessary movements or uncomfortable or injurious positions on the rider's part.

This object I have accomplished by the means which are hereinafter described and claimed, and which are illustrated in the accompanying drawings, in which Figure 1 is a side elevation, in perspective of my improved swing, with a portion of one element broken away, and Fig. 2 is an end elevation of the swing, with one element thereof shown in cross-section.

Similar numerals of reference denote like parts throughout the several views.

My improved child's swing may be suspended from any suitable support, such as a cross-beam 1, which latter may be part of a doorway. The numeral 2 denotes a block secured removably to the under part of the beam 1 by bolts 3 or other fastening-means. At one end of said block a pair of spaced depending like hangers 5 are suspended pivotally on a pivot-bolt 4, and between their lower ends the upper end of a bar 7 is adjustably secured by bolts 6 passed through certain of bolt-holes 23 for longitudinal adjustment. Another pair of hanger-bars 8 are in a like manner adjustably mounted on the lower end of the bar 7 by bolts 9 passed through certain of said orifices 23. These connected elements provide a swinging member, whose parts may be readily disassembled for packing or transportation, or assembled in a desired length of adjustment, as may be necessary to accommodate the swing to different heights of overhead supports 1.

Any desired form of body 12, carrying a seat 13, may be secured between the lower ends of the bars 8 by means of screws 11 or the like. Between the bars 8 the body 12 is vertically channeled at 14 to seat a vertically slidable rod 20, carrying on its lower extremity a cross-bar 21 secured by a rivet 22, and formed into oppositely-directed stirrups.

Above the body 12, the overlapped bars 7 and 8 are transversely orificed to receive the cross-bar 10, providing oppositely extending handles.

A bearing-strap 18 is fixedly mounted on the upper part of the bar 7 and carries a rotatable sheave 17. A screw-eye 15 is fixed in the under face of the block 2 at a suitable distance from said pivot-bolt 4. The upper end of a pull-cord 16 is secured to said screw-eye 15, thence carried about the sheave 17 and downwardly, with its lower end secured in an orifice 19 in the upper end of the rod 20 above said body 12.

A rider on the seat 13, with feet placed on the stirrups 21, and grasping the handles 10, can readily swing the body 12 by successive actuations or depressions of said stirrups. The rigid rod 20 which carries said stirrups, slides up and down in the channel or bearing orifice 14, thus localizing the movement of the stirrups in line with the rigid connected swing suspension parts 5, 7 and 8, so that only the minimum effort is required of the rider without lost motion or side sway of said stirrups. The alternate actuations of the stirrups and the rod 20, causes the pull-cord 16 to act upon the sheave 17 movably to swing said rigid suspension parts 5—7—8 with the body 12 to and fro, for the rigid members 5—7 support the sheave 17 as a fulcrum suitably for the positive actuation of the swing.

This construction of the device saves excessive effort on the part of the rider, who may also preserve a comfortable position while swinging, without over-balancing or danger of falling off.

Having described my invention, what I claim as new, and desire to secure by Letters Patent, is:

In combination, an elevated support, a rigid elongated hanger hung swingingly on said support, a seat-carrying body rigidly mounted on the lower end of said support

and having an orificed slideway alined with said hanger, a sheave rotatably mounted on the upper part of said hanger, a slide-bar mounted slidably in said orificed slideway and having cross-bar stirrups fixedly mounted on its lower end beneath said seat-carrying body, and a cable having its upper end secured to said support at a location spaced from the connection of the hanger thereto, thence passed about said sheave, and thence directed downwardly along the hanger with its lower end secured to the upper end of said slide-bar above said seat-carrying body.

Signed at Parkersburg, Iowa, this 21st day of January, 1919.

JOHN H. SKEEL.

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