

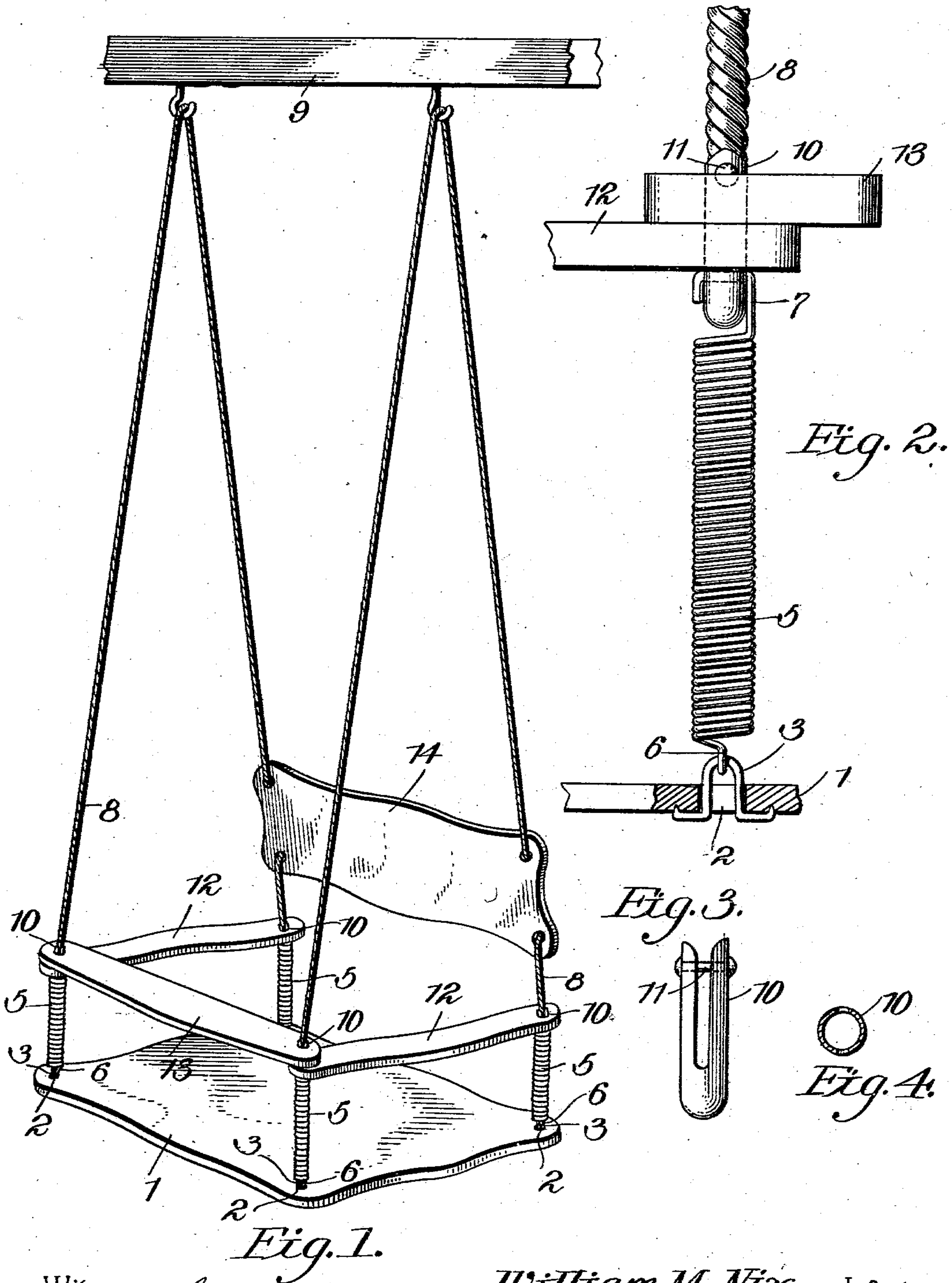
No. 743,546.

PATENTED NOV. 10, 1903.

W. M. NIX.
BABY JUMPER.

APPLICATION FILED JULY 20, 1903.

NO MODEL.



Witnesses
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UNITED STATES PATENT OFFICE.

WILLIAM M. NIX, OF MUSKOGEE, INDIAN TERRITORY.

BABY-JUMPER.

SPECIFICATION forming part of Letters Patent No. 743,546, dated November 10, 1903.

Application filed July 20, 1903. Serial No. 166,354. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM M. NIX, a citizen of the United States, residing at Muskogee, in the Creek Nation, Indian Territory, have invented a new and useful Swing, of which the following is a specification.

My invention relates to swings, being especially designed for the amusement of infants or small children, and has for its objects to produce a device of this character of simple construction which will be efficient in operation and one which will afford amusement and interest to the child and at the same time physically develop the latter.

To these ends the invention comprises the novel details of construction and combination of parts more fully hereinafter described.

In the accompanying drawings, Figure 1 is a perspective view of a swing embodying my invention. Fig. 2 is a detail sectional elevation of a portion of the same on an enlarged scale. Figs. 3 and 4 are detail views of the end ferrules for the swing-ropes.

Referring to the drawings, 1 indicates the base or seat of the swing, preferably consisting of a piece of board of substantially rectangular form, as herein shown, the seat being provided at each corner with a vertical perforation or aperture 2. Through each of the openings 2 is seated a member 3, preferably in the form of a staple having its crown portion projecting above the upper face of the seat 1 and its arms angularly bent or clenched beneath the under face of the seat, as shown in Fig. 2.

5 indicates four vertically-disposed coil-springs arranged one at each corner of the seat 1 and each provided at its lower end with an eye 6 in engagement with the crown portion of one of the members 3, the upper ends of the springs being each formed into a hook 7, which engages the end of a suspension-rope 8. There are two of the ropes 8, arranged one at each side of the swing and looped at their centers over suitable hooks carried by an overhead support 9, the opposite ends of each rope being connected each with one of the springs, which are arranged in pairs at opposite sides of the seat, as herein shown. The ropes have their ends provided each with a metal ferrule 10 of tubular form, which receives the end of the rope and is secured

thereto by a rivet or the like 11. The ferrule has its lower end closed and rounded and its side walls slotted longitudinally at diametrically opposite points to permit of the engagement of the hook 7 through the same and the inclosed rope. By this arrangement the rope is prevented from raveling or fraying at its ends and the hook is maintained in secure engagement therewith.

12 indicates the side or arm pieces of the swing, which are preferably of wood and have their ends perforated vertically for the passage of the ropes 8, upon which they are mounted. These side pieces bear at their under faces upon the hooks 7 at the upper ends of the springs, whereby the hooks serve as stops to prevent downward movement of the pieces and the springs as means for maintaining them in suitable spaced relation above the seat 1.

13 indicates a retaining member or guard which extends across the front of the swing to prevent falling of the child therefrom, said member being preferably in the form of a board perforated at its ends for engagement with the ropes 8 and resting at its lower face upon the outer ends of the arm-pieces 12.

14 is a back-rest, preferably in the form of a board perforated at its ends, as herein shown, for the passage of the ropes 8, by which it is adjustably secured in place.

In practice the weight of the child upon seat 1 serves to distend springs 5 and permit the seat to move downward, which motion naturally causes the child to grasp the arm-pieces 12, which relieves the seat of the weight of the child and permits the springs to again contract and raise the seat, whereby a very young child will soon learn to manipulate the device for swinging up and down upon the seat and will derive considerable amusement therefrom, while at the same time the exertion necessary in operating the device will afford healthful exercise and physical development.

From the foregoing it will be seen that I produce a device of simple construction which is admirably adapted for the attainment of the ends in view; but it is to be understood that I do not limit myself to the details herein set forth, inasmuch as such structural changes therein as may be found needful or desirable

in practice may be made without departing from the spirit or scope of the invention.

Having thus described my invention, what I claim is—

5 1. In a swing, the combination with suspension-ropes, of springs connected with the lower ends thereof, a seat operatively connected with the springs and yieldably sustained by the latter, arm-pieces mounted
10 upon the ropes above the seat, and means for fixedly sustaining said arms against downward movement relative to the seat.

2. In a swing, the combination with suspension-ropes, of springs provided at one end
15 with hooks engaging the ends of the ropes, arm-pieces mounted on the ropes and bearing upon the hooked ends of the springs, and a seat operatively connected with the lower ends of the springs and yieldably sustained
20 by the latter.

3. In a swing, the combination with a seat having vertical perforations, members seated

in the perforations, springs engaged at their lower ends one with each of the members, suspension-ropes connected with the upper
25 ends of the springs, and arm-pieces mounted on the ropes and bearing upon the upper ends of the springs.

4. In a swing, the combination with suspension-ropes, of ferrules applied to the ends
30 thereof and having their opposite walls slotted, springs provided with hooks engaged through the ropes and slotted ferrules, arm-pieces mounted on the ropes and bearing upon the springs, and a seat connected with the
35 lower ends of the springs.

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

WILLIAM M. NIX.

Witnesses:

T. R. PALMER,

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