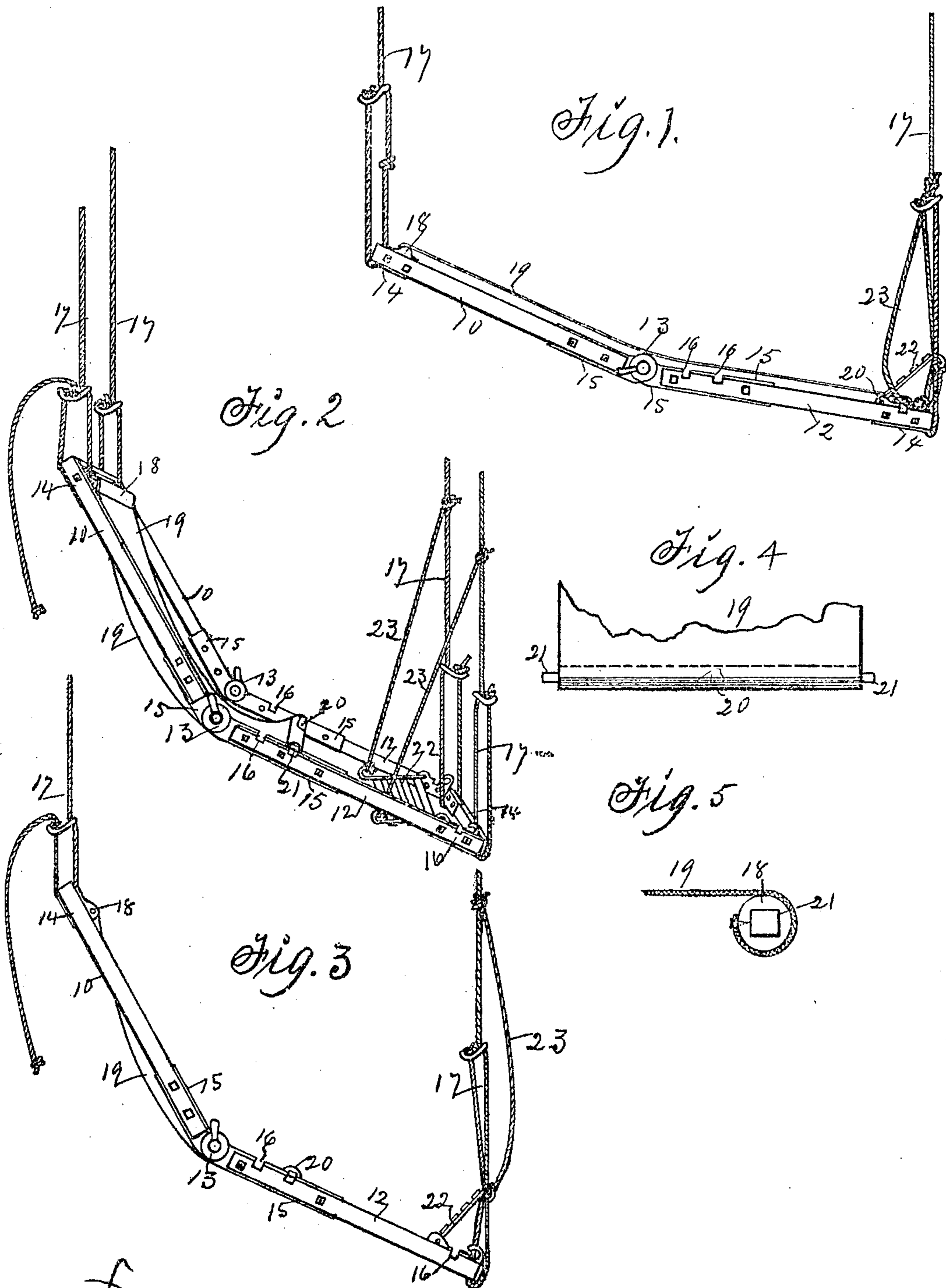


G. E. KNOWLTON.  
SWING.

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950,568.

Patented Mar. 1, 1910.



Witnesses:  
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# UNITED STATES PATENT OFFICE.

GERRY E. KNOWLTON, OF SYCAMORE, ILLINOIS.

SWING.

950,568.

Specification of Letters Patent.

Patented Mar. 1, 1910.

Application filed April 27, 1909. Serial No. 493,005.

*To all whom it may concern:*

Be it known that I, GERRY E. KNOWLTON, a citizen of the United States, residing at Sycamore, in the county of Dekalb and State of Illinois, have invented a new and useful Swing, of which the following is a specification.

My invention relates to the swing for which Letters Patent No. 743,524 were granted to me November 10, 1903, and in improvements in structure that adapts the swing to be converted into a seat and the foot rest to be adjusted in such a manner that a person seated in the swing can, by pressing his heels downward upon the foot rest, impart a swinging motion to the seat and himself and consists in means for adjusting the canvas to produce a seat and means for connecting the top of the foot rest with the ropes that suspend the lower end of the swing as hereinafter set forth, pointed out in my claims and illustrated in the accompanying drawing in which:—

Figure 1 is a side view of the swing and foot rest in position as required to be operated by a person stretched out on the canvas. Fig. 2 is a perspective view that shows the swing and foot rest in position as required to support a person seated on the canvas with his feet resting on the foot rest in such a manner that he can put the swing and himself into a swinging motion by simply pressing his feet on the foot rest. Fig. 3 is a side view of the swing that shows it in position as required to support a person on the canvas in an inclined position and the foot rest in its normal upright position to be engaged by the person's feet so that he can operate the swing by pushing motion on the foot rest. Fig. 4 is an end view of the canvas fastened to a roller and Fig. 5 is an enlarged end view of the roller that shows how the canvas is fixed to the roller.

The numerals 10 and 12 designate the wooden side bars of the frame connected by metal joints 13 at their centers and cross pieces 14 at their ends. Metal bars 15 extend from the joints 13 to which the side bars 10 and 12 are fixed. In Fig. 1 the side bars are provided with angular notches 16 to admit the angular ends of a roller, as

shown in Fig. 2. Ropes 17 are fixed to the ends of the frame as required for suspending the swing. A cross bar 18 is detachably connected to the side bars at the top of the frame and a canvas 19 fixed thereto in any suitable way and to the lower end of the canvas is fixed a roller 20 that has square ends 21 adapted to enter the notches 16 as shown in Fig. 2. The foot rest 22 is hinged to the lower end portions of the jointed frame and its free end is connected with the ropes 17 by short ropes 23, or in any suitable way in such a manner that it can be lowered to let a person, when seated on the roller 20 and lower end of the canvas 19, to press his heels down upon the foot rest to impart a swinging motion to the suspended swing by drawing the ropes 17 toward him so that when he relaxes the pressure of his heels the ropes 17 will return to their normal straight vertical positions. Repeated pressure thus applied on the foot rest 22 will keep the swing in motion.

Having thus set forth the purpose of my invention, its construction and manner of operation, the novelty and utility thereof will be obvious.

What I claim as new and desire to secure by Letters Patent, is:

1. In a swing, an oblong frame composed of two parts hinged together, a foot rest hinged within the lower end of the frame, ropes fixed to the ends of the frame for suspending the swing and means fixed to the free end of the foot rest and the ropes for suspending the frame, to operate as set forth.

2. A swing comprising a frame having notches in the top edges of the side bars, ropes fixed to its ends for suspending it, a canvas having a cross bar fixed to its upper end, and a roller to its lower end, a foot rest hinged in the lower end of the frame and means fixed to the free end of the foot rest and the suspension ropes at the lower end of the frame, arranged and combined to operate as set forth.

GERRY E. KNOWLTON.

Witnesses:

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