

No. 710,633.

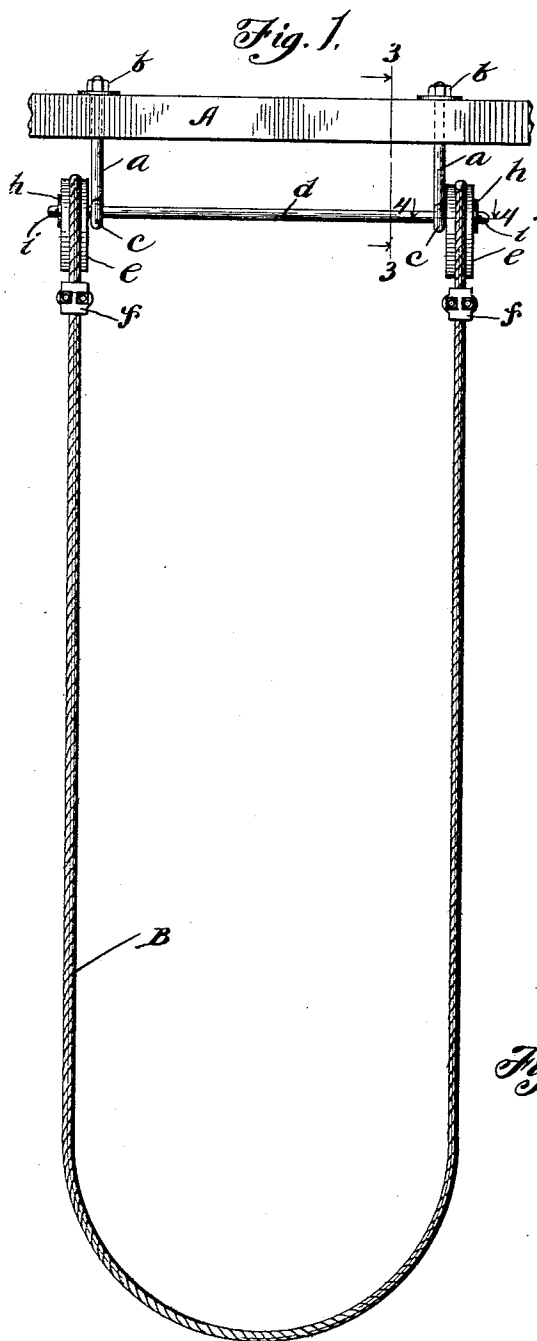
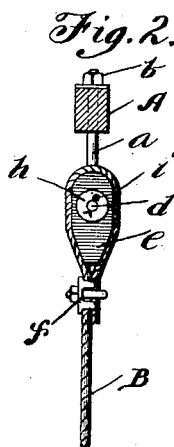
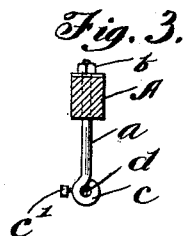
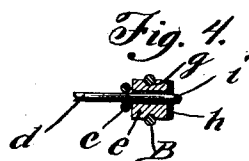
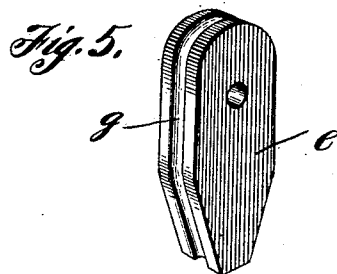
W. S. TOTHILL.

Patented Oct. 7, 1902.

SWING.

(Application filed Nov. 21, 1901.)

(No Model.)



Witnesses:
Chas. D. Perry
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William S. Tothill Inventor:
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UNITED STATES PATENT OFFICE.

WILLIAM S. TOTHILL, OF CHICAGO, ILLINOIS.

SWING.

SPECIFICATION forming part of Letters Patent No. 710,633, dated October 7, 1902.

Application filed November 21, 1901. Serial No. 83,123. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM S. TOTHILL, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Swings, of which the following is a specification, reference being had to the accompanying drawings.

My invention relates to improvements in swings, and has for its object to provide a simple and effective means for attaching the ends of the rope or other article that is employed to form the swing-body, whereby such ends will be firmly held in a manner to prevent them from being worn and weakened by friction as the swing is used and at the same time will be so secured as not to present an awkward or clumsy appearance. I accomplish this object by the means shown in the drawings and hereinafter specifically described.

That which I regard as new will be pointed out in the claim.

In the accompanying drawings, Figure 1 is a front elevation, the supporting headpiece being broken away at its ends. Fig. 2 is a side elevation, a portion only of the rope shown in Fig. 1 being represented. Fig. 3 is a detail, being a section at line 3 3 of Fig. 1 through the supporting headpiece and bar secured below such headpiece and showing in side elevation one of the hanger-rods. Fig. 4 is a horizontal section at line 4 4 of Fig. 1, and Fig. 5 is a perspective view of one of the blocks around which the rope ends are looped.

Referring to the several figures of the drawings, A indicates a headpiece, which may be a wooden beam of suitable size and adapted to be supported in any suitable manner high enough above the ground or floor to permit the lower end of the swing-body to be in proper position.

a a indicate a pair of hanger-rods depending from the headpiece A, such hanger-rods in the form of construction shown being passed through suitable openings in the headpiece and secured in place by nuts b b on their upper ends. The lower end of each hanger-rod a is turned, as shown, to form an eye c, and through these eyes passes a rod d,

the ends of such rod projecting, as shown, a short distance beyond the said eyes.

c' indicates a set-screw with which each eye may be provided, if desired, so as to enable the rod d to be held immovable in the said eyes.

e e indicate two blocks located on opposite ends of the rod d. Each block is somewhat oblong and is rounded at its upper end and at its lower end has its sides tapering toward the end. Each block has in its edge face a groove g, of a size adapted to receive the rope from which the swing-body is formed. As shown, each end of the rope is looped around one of such blocks and then fastened securely in place by an ordinary rope-clamp, such as that indicated by f, the clamp being secured, as shown, immediately below the lower end of the block e and acting to draw the end of the rope close to and parallel with the depending portion of the rope and securing such end tightly to the said depending portion, thus causing the portion of the rope around the block to fit snugly in the groove g.

h indicates a washer lying against the outer face of each block e, and i indicates a key or pin passing through the end of the rod d for securing the block in position, one of the hanger-rods a preventing inward movement on the rod d of the block.

B indicates the swing-body, formed of rope of any ordinary and suitable kind.

The blocks e are free to turn on the rod d, and hence as the swing is used the rope will not be subjected to any wear by reason of friction, such as would be the case if the blocks were stationary. The strain on the rope when the swing is in use of course will hold it firmly seated in the grooves g, so that there is no danger of it slipping off the blocks. The shape of the block, to which reference has been made, is of value, in that the loop of rope over the block is afforded a wide and properly-rounded bearing where it is most needed, and the construction of the lower end permits the binding together of the rope end and the body or depending portion of the rope immediately below the block, and thereby enables the loop to be made to snugly fit the block, which of course is desirable.

That which I claim as my invention, and desire to secure by Letters Patent, is—

In a swing, the combination of the head-piece A, hanger-rods *aa* depending therefrom, the horizontal rod *d* secured in said hanger-rods, the pair of blocks *e* pivotally mounted on the ends of said rod *d* and each provided with a groove in its edge face, and a rope hav-

ing its ends looped and secured around said blocks and within the said grooves and means for securing the rope in place, substantially as specified.

WILLIAM S. TOTHILL.

Witnesses:

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