

V. SWANFELT.
SWING.

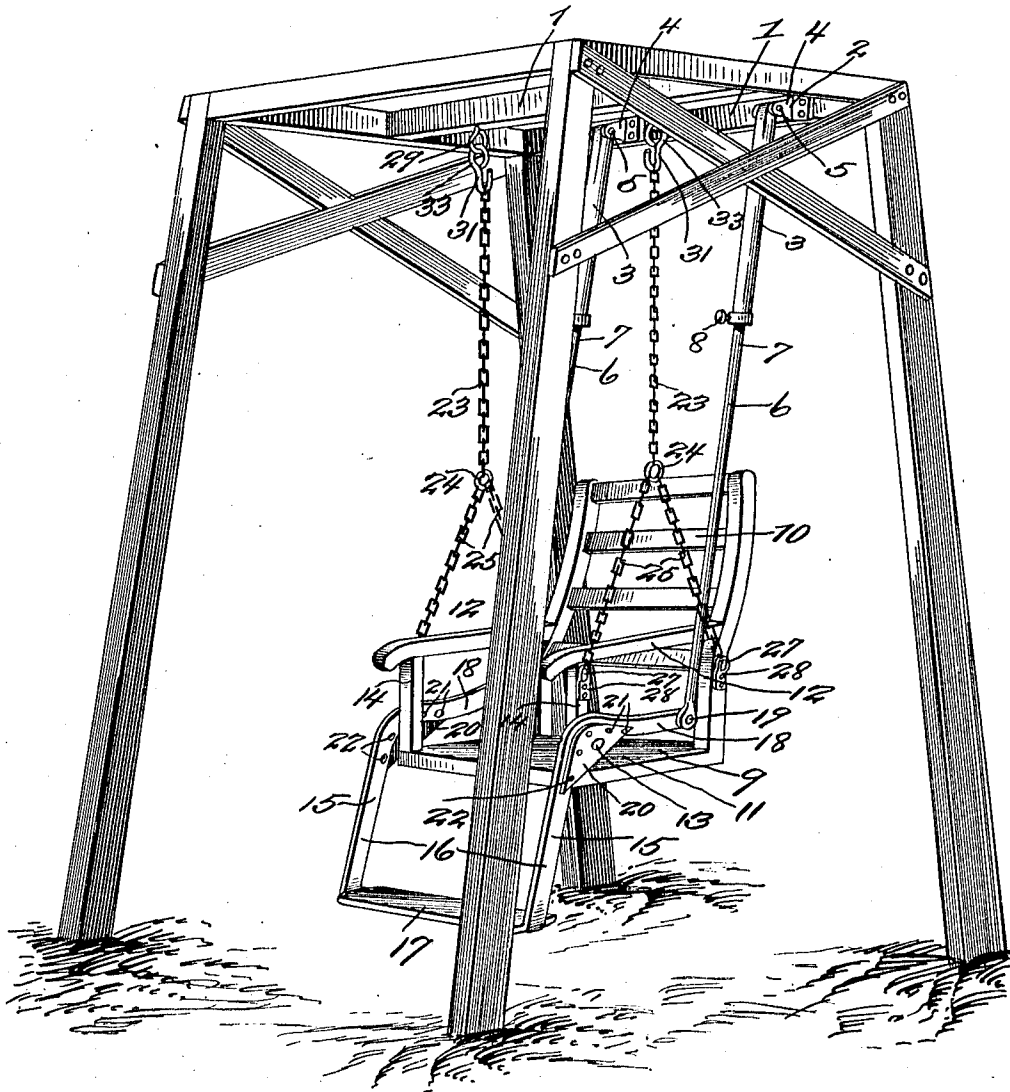
APPLICATION FILED OCT. 6, 1910.

1,020,229.

Patented Mar. 12, 1912.

2 SHEETS—SHEET 1.

Fig. 1.



Witnesses
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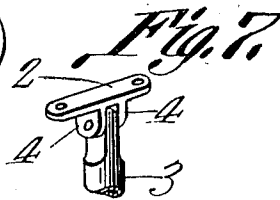
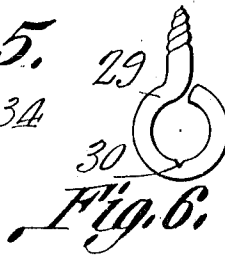
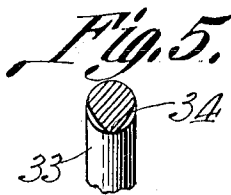
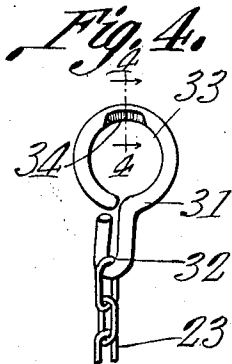
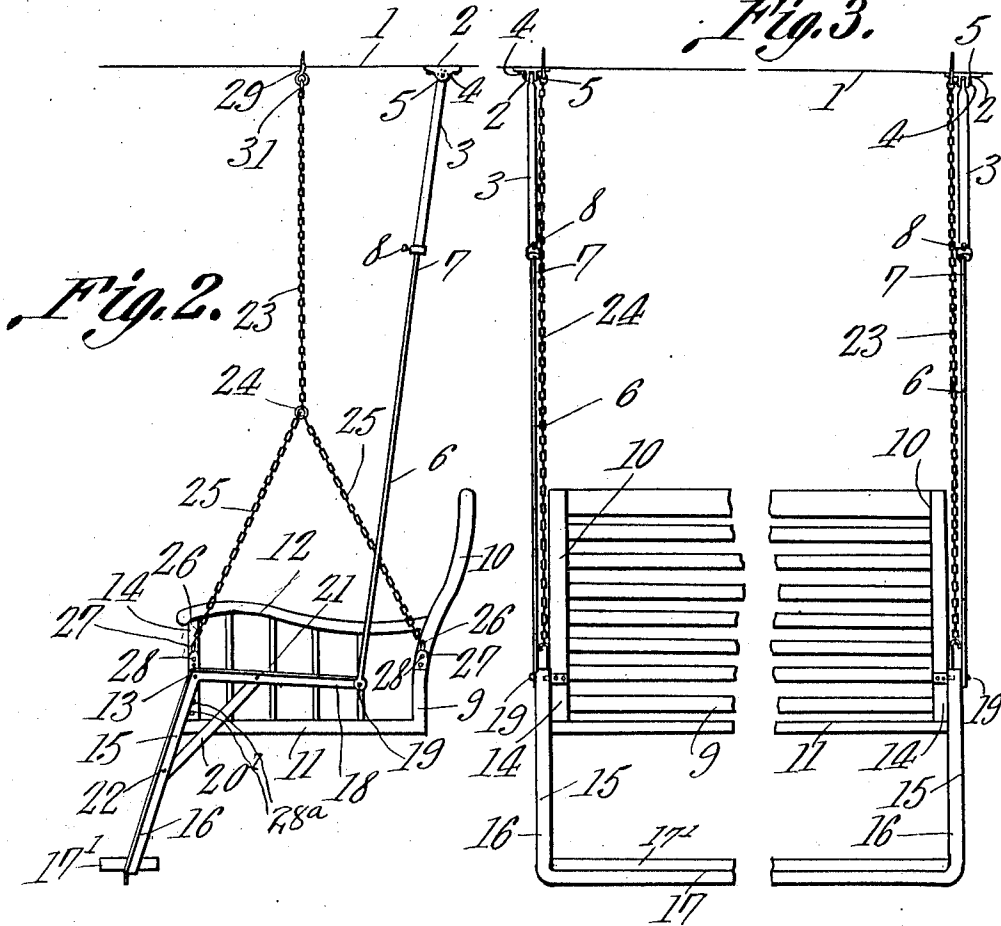
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2 SHEETS-SHEET 2.



Witnesses

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UNITED STATES PATENT OFFICE.

VICTOR SWANFELT, OF ELWOOD, INDIANA.

SWING.

1,020,229.

Specification of Letters Patent.

Patented Mar. 12, 1912.

Application filed October 6, 1910. Serial No. 585,653.

To all whom it may concern:

Be it known that I, VICTOR SWANFELT, a citizen of the United States, residing at Elwood, in the county of Madison and State of Indiana, have invented a new and useful Swing, of which the following is a specification.

It is the object of this invention to provide a swing so constructed that the same may be oscillated either by pedal pressure or by manual pressure, exerted by the occupant of the swing, novel means being provided for suspending the swing, and for raising and lowering the foot piece whereby pedal pressure is applied, to secure a movement of the swing.

In the drawings,—Figure 1 shows the invention in perspective, suspended from a supporting frame; Fig. 2 is a side elevation showing a slightly modified form of the invention; Fig. 3 is a front elevation of the structure depicted in Fig. 2; Fig. 4 is a side elevation of one of the suspension members which are employed in both forms of the invention; Fig. 5 is a section on the line 4—4 of Fig. 4; Fig. 6 is a side elevation of one of the screw eyes which receive the suspension members shown in Fig. 4; and Fig. 7 is a detailed perspective of the means whereby certain of the suspending elements are connected with the supporting frame.

In carrying out the invention there is provided as a primary and fundamental element, a chair 9, comprising a back 10, a seat 11, arm posts 14 rising from the seat, and arms 12 supported by the arm posts and the back 10.

The invention further includes a pair of bell cranks 15, each comprising a depending segment 16 and a lateral segment 18, the bell cranks 15 being mounted upon opposite sides of the chair 9, and being pivoted, as shown at 13, to the arm posts 14. The lower ends of the segments 16 of the bell cranks, are connected by an integrally formed foot piece 17. In the angles of the bell cranks 15, triangular brace plates 20 are mounted, the plates being connected, as shown at 21, to the segments 18 of the bell cranks 15, the brace plates being likewise connected, as shown at 22, to the segments 16 of the bell cranks.

The rear extremities of the segments 18 of the bell cranks are pivoted, as shown at 19, to the lower extremities of rods 6, the upper ends 7 of the rods 6 being slidably

inserted into tubes 3, provided with set screws 8, adapted to engage the rods 6, to permit an adjustment of the rods within the tubes. Pivot pins 5 are passed through the upper extremities of the tubes 3, and through ears 4, fashioned upon the plates 2, which may be secured to a suitable supporting frame 1.

Screw eyes 29 are inserted into the frame 1, in front of the plates 2, the screw eyes being supplied with V shaped slots 30, adapted to receive knife edges 34, formed in eyes 33, constituting portions of suspension members 31, the lower extremities of which are bent to form hooks 32, adapted to engage chains 23, or other flexible elements. The lower ends of the chains 23 are supplied with rings 24, engaging the upper extremities of diverging chains 25, the lower extremities of the chains 25 being interengaged with eyes 27, formed upon plates 28, the plates being secured to the arm posts 14, and to the back 10.

The form of the invention shown in Figs. 2 and 3, differs in minute structural features only, from the device shown in Fig. 1. In Figs. 2 and 3, the triangular brace plates 20 of Fig. 1 are dispensed with, their places being taken by diagonally positioned brace bars 20', uniting the segments 16 and 18 of the bell cranks 15. In the form of the invention under discussion, an auxiliary thrust plate 17' may be superposed upon the foot piece 17 which connects the bell cranks 15. A plurality of openings 28^a are formed in the arm posts 14 in the form of the invention shown in Figs. 2 and 3, these openings being adapted to receive successively, the pivot elements 13 whereby the bell cranks 15 are connected with the arm posts 14, the positions of the bell cranks upon the chair structure, being thus made adjustable.

By inserting the hooks 32 into successive links of the chains 23, the forward portion of the chair may be elevated or lowered, a corresponding adjustment of the rear portion of the chair being effected by telescoping the rods 6 within the tubes 3. Moreover, by changing the relative relations between the rods 6 and the tubes 3, the foot piece 17 may be advanced and retracted horizontally, the foot piece being likewise raised, when the rods 6 are slid outwardly from the tubes 3. By thus elevating the foot piece 17, the occupant of the chair 9

will be permitted to assume a position in which his feet will be elevated somewhat, the operator thereby being permitted to assume a posture approximating a recumbent one. Obviously, by applying pressure upon the foot piece 17, the chair 9 will be oscillated upon its frame-engaging suspension means.

It is to be noted that the segments 18 of the bell cranks are positioned substantially parallel to the arms 12 of the chair, in close relation thereto, and by reason of this construction the occupant of the chair may, at his option, actuate the chair to a swinging movement, by applying manual pressure to the segments 18 of the bell cranks, instead of applying pedal pressure to the foot piece 17.

Having thus described the invention what is claimed is:—

In a device of the class described, a chair having arms; means for suspending the chair for swinging movement from an over-

head support; bell cranks each comprising a segment depending below and in front of the seat of the chair, and a segment extended rearwardly, substantially parallel to and above the seat of the chair, but below the arms of the chair, the bell cranks being pivoted to the chair, at the angle formed by the segments, there being a foot piece connecting the lower ends of the depending segments; and longitudinally extensible structures, independent of the suspending means, each pivotally connected at one end with the rearwardly extended segments, and having means at their other ends for engaging an overhead support.

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

VICTOR SWANFELT.

Witnesses:

I. N. ROOP,

RICHARD F. BROADBENT.

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