

M. BLACHMANN.

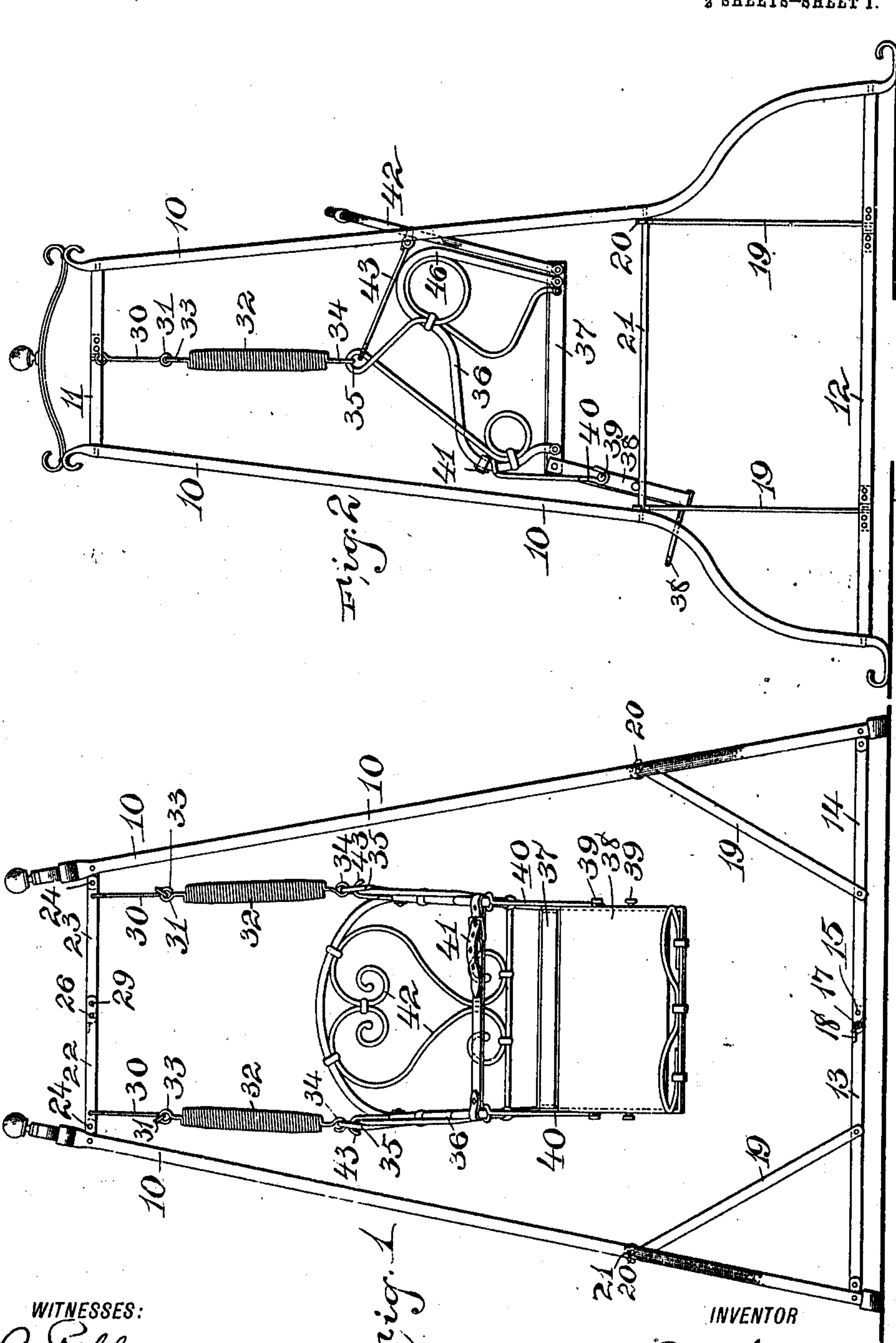
SWING.

APPLICATION FILED DEC. 13, 1909.

993,747.

Patented May 30, 1911.

2 SHEETS-SHEET 1.



WITNESSES:  
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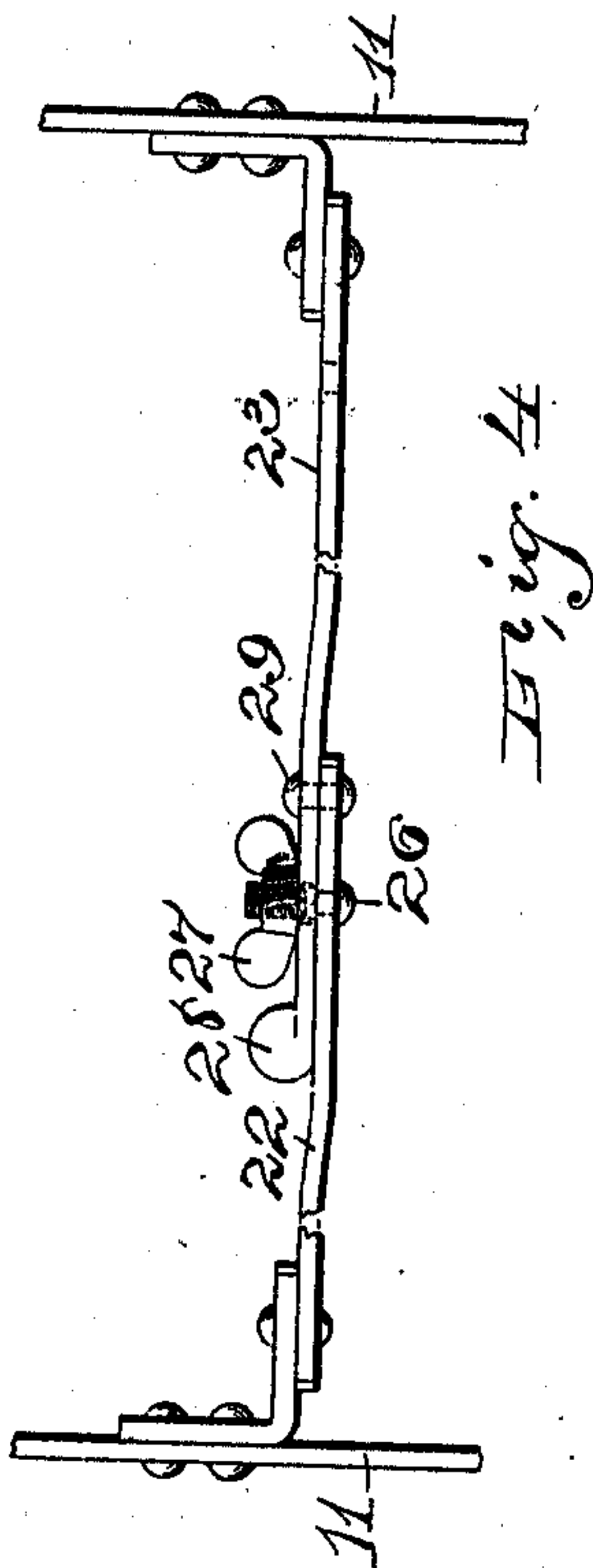


Fig. 4

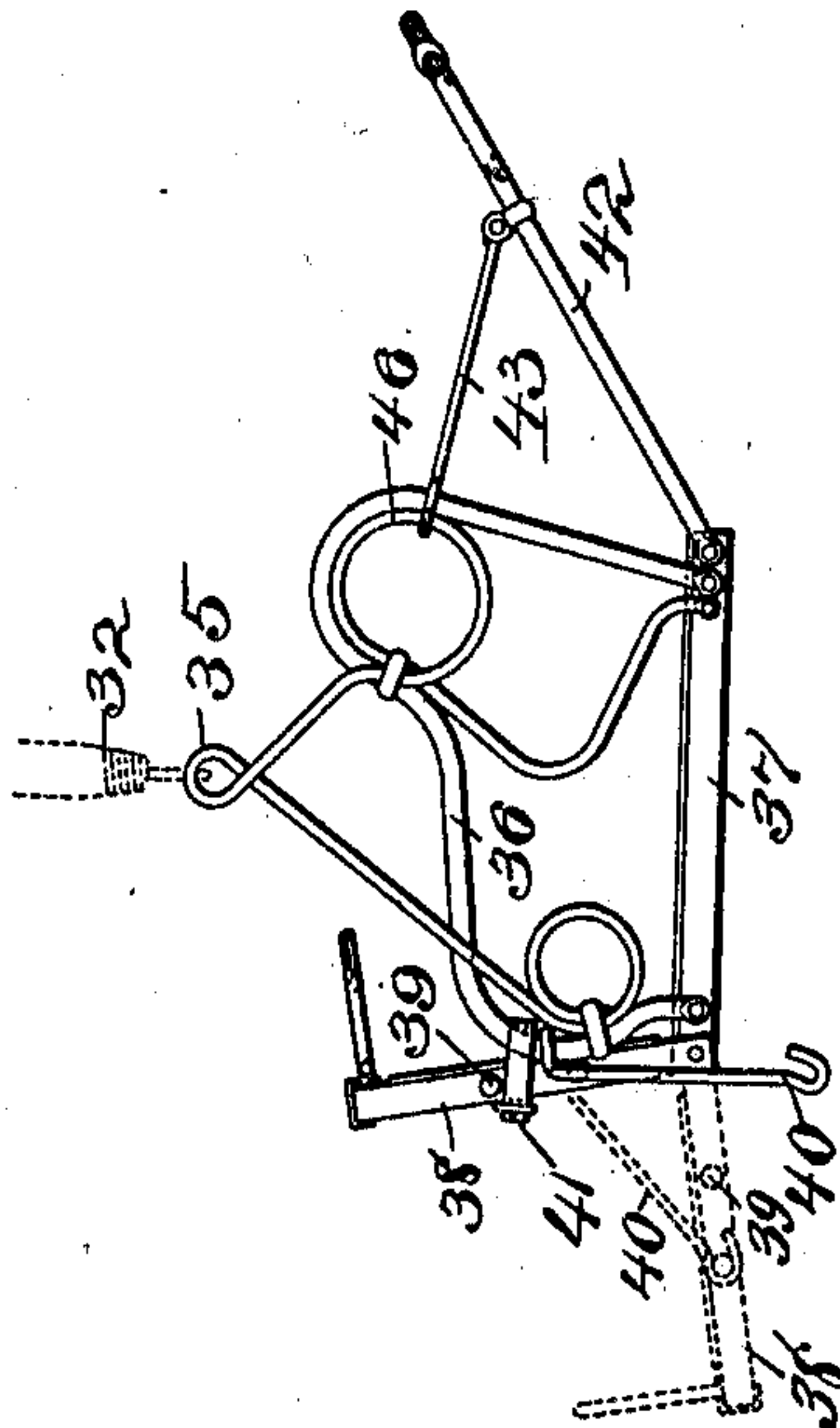


Fig. 5

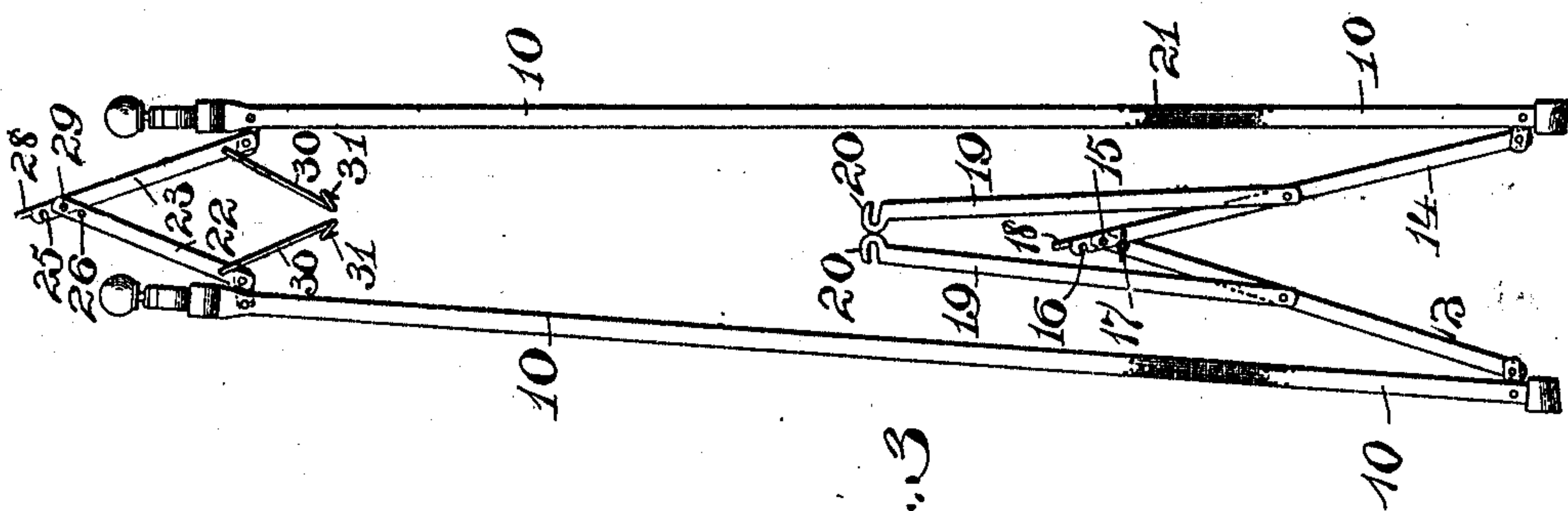


Fig. 3

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# UNITED STATES PATENT OFFICE

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SWING.

993,747.

Specification of Letters Patent. Patented May 30, 1911.

Application filed December 13, 1909. Serial No. 532,784.

*To all whom it may concern:*

Be it known that I, MICHAEL BLACHMANN, a citizen of the United States, residing at Elizabeth, in the county of Union and State of New Jersey, have invented certain new and useful Improvements in Swings; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to figures of reference marked thereon, which form a part of this specification.

This invention relates to a combined swing, chair and jumper, being formed with a supporting frame which is collapsible and can be folded together in a small space, the folding being in a direction transverse to the movement of the swinging portion or seat.

A further object of the invention is to provide a seat which is preferably supported by springs from a cross-arm, the seat having a foot-piece and a back, both of which are adjustable in relation to the seat portion, and the person occupying the seat can assume a reclining attitude or can remain seated.

The invention is illustrated in the accompanying drawings, in which—

Figure 1 is a front view of my improved swing, and Fig. 2 is a side view thereof. Fig. 3 is a front view of the support folded. Fig. 4 is a top view of the cross-arm of the support from which depends the seat, and Fig. 5 is a side view of the seat in detail showing the ways in which it can be altered.

The swing comprises a support which is formed of two side members, each side member in turn being made up of two uprights so that there are four uprights altogether. The two uprights of each side member are connected at the top by a bar 11 and at the bottom by means of a bar 12. Connecting the bottom bar 12 of each side member are a pair of hinged connections, each hinged connection comprising swinging bars 13 and 14 which are pivoted at 15, one of the bars having a notch 16, shown more particularly in Fig. 3, which is arranged to limit the swing of the swinging bars, when they are in line, by engaging the set-screw 17, which set-screw, when screwed up tight, locks the swinging bars in line. A projecting ear 18 on the bar 14 forms a finger-piece for pulling the bars out of alinement when the set-screw 17 is unscrewed. Pivoted to each

swinging bar 13 and 14 is a link 19, these links being four in number and having hooked ends 20, which hooked ends fit over the rods 21 and form a brace for the structure, at the same time locking the swinging bars 13 and 14 so that they cannot move out of alinement, and thus the spreading or the collapsing of the support is prevented. The top bar 11 on each side member forms a bearing for a supporting arm, these supporting arms 22 and 23 being hinged on one end, as at 24, to a top bar 11, one of the supporting arms, as 23, being provided with a slot 25 which fits over a set-screw 26, the set-screw and the slot co-acting, as in the case of the lower swinging bars, to limit the movement of the supporting arms when they are in line. A nut 27 serves to lock the parts together, and the finger-piece 28 provides for the manual manipulation of the supporting arms to pull them out of alinement, since these supporting arms are pivoted to each other at 29.

From each supporting arm 22 and 23 depends a rod 30 which is provided with a lower end formed into a helix 31, the axis of the helix being at right-angles to the rod. The rods are suspended from the supporting arms preferably near the ends of the supporting arms next to the upper bars. A spring 32 depends from each rod 30, each spring having an eye 33 which can be twisted around on the helix 31 and is thus easily removed or installed. The lower end of each spring 32 is provided with an eye 34 which receives a loop 35, these loops being at the top edge of the sides 36 of a suitable chair or seat. The bottom 37 of the seat has, pivoted to its front end, a foot-piece 38 which has the studs 39 on each side thereof, and a hook 40 swings on each side 36 of the chair, the sides being preferably formed of tubular or round strands, these hooks being adapted to engage the studs 39 to hold the foot-piece 38 in the position shown in Fig. 2 or the position shown in Fig. 5 in dotted lines. A strap 41 connects the two sides 36 of the seat, this strap being arranged to hold the occupant in place, which is necessary when it is a child, the strap also acting to hold the foot-piece in the position shown in full lines in Fig. 5.

Hinged to the back edge of the bottom 37 of the seat is a back 42 which can be swung down to the position shown in Fig. 5, in which case a hook 43, hinged on each side



of the back 42, engages the loop 35, and when the seat is lowered, as shown in Fig. 5, the hook can be caught into the loop or strand 46 which is formed in each side 36 of the chair, although it will be understood that the exact curvature or ornamental twisting of the elements comprising the sides of the chair are not intended to be covered, and a number of different designs might be used.

Having thus described my invention, what I claim is:—

A swing comprising a support consisting of side members, each side member having an upright on each end, a bar connecting the uprights of each member near the top, a bar connecting the uprights of each member near the bottom, a pair of hinged bars connecting the bottom bars of the side members near one upright, a pair of hinged bars connecting bottom bars of the side members near the other upright, co-acting means on the hinged bars for limiting their movement when they are extended to space the side members apart, a rod on each side member

connecting the uprights thereof, the rod being above the bottom bar of each side member, links, each link having one end hinged to a hinged bar and having a hook on its other end to engage a rod of a side member when the hinged bars are horizontal, a pair of hinged arms pivotally connected together and having their free ends connected to the opposed top bars of the side members, co-acting means on the hinged arms for limiting their downward movement when they are horizontal, a seat, and means for suspending the seat from the hinged arms on opposite sides of the pivotal connection of the hinged arms whereby the said arms are held in a horizontal position by the weight of the seat.

In testimony, that I claim the foregoing, I have hereunto set my hand this 21st day of October 1909.

MICHAEL BLACHMANN.

Witnesses:

WM. H. CAMFIELD,  
E. A. PELL.

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