

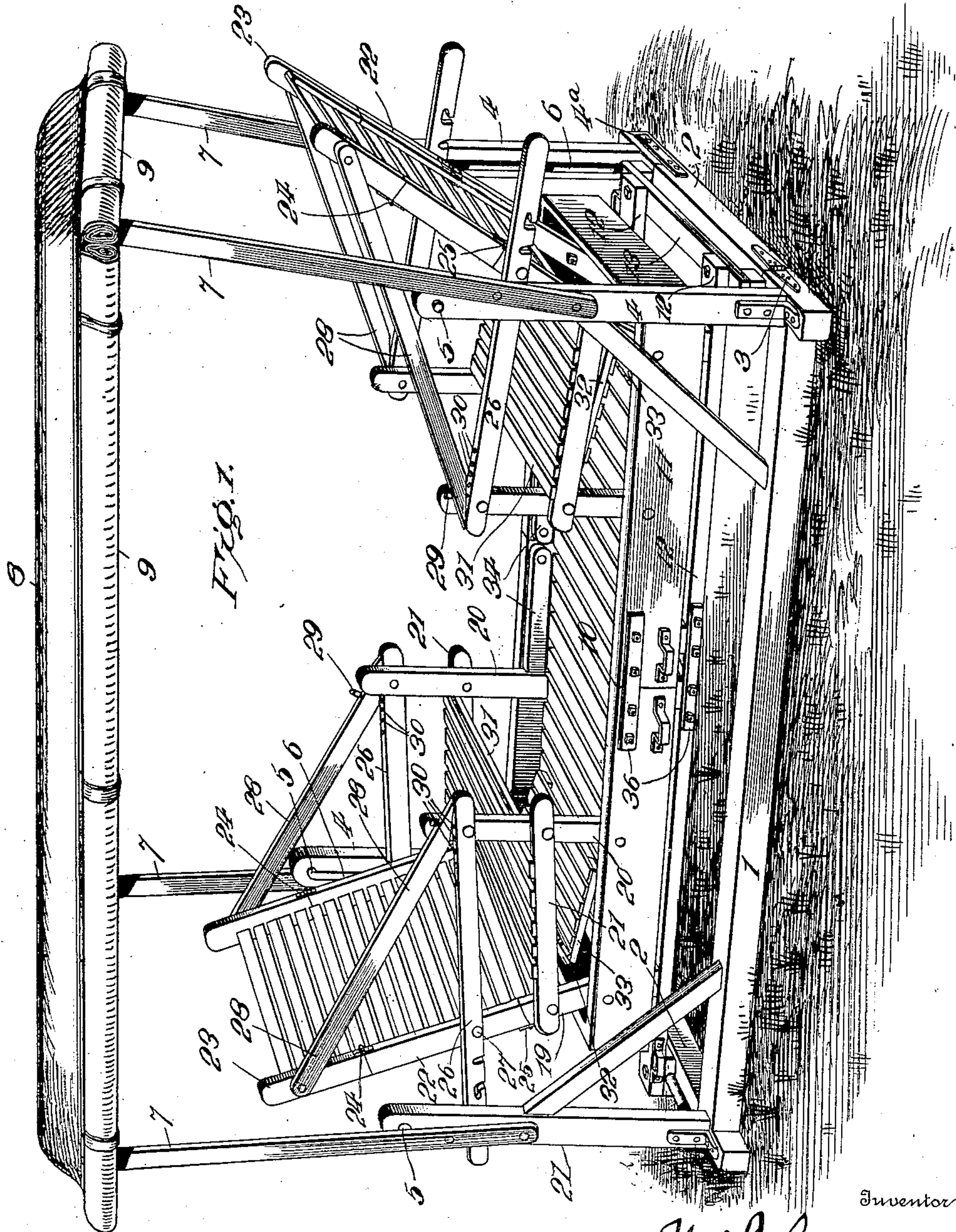
No. 886,799.

PATENTED MAY 5, 1908.

W. T. GREEN.  
SWING.

APPLICATION FILED SEPT. 27, 1905.

4 SHEETS—SHEET 1.



Witnesses

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334

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Attorney



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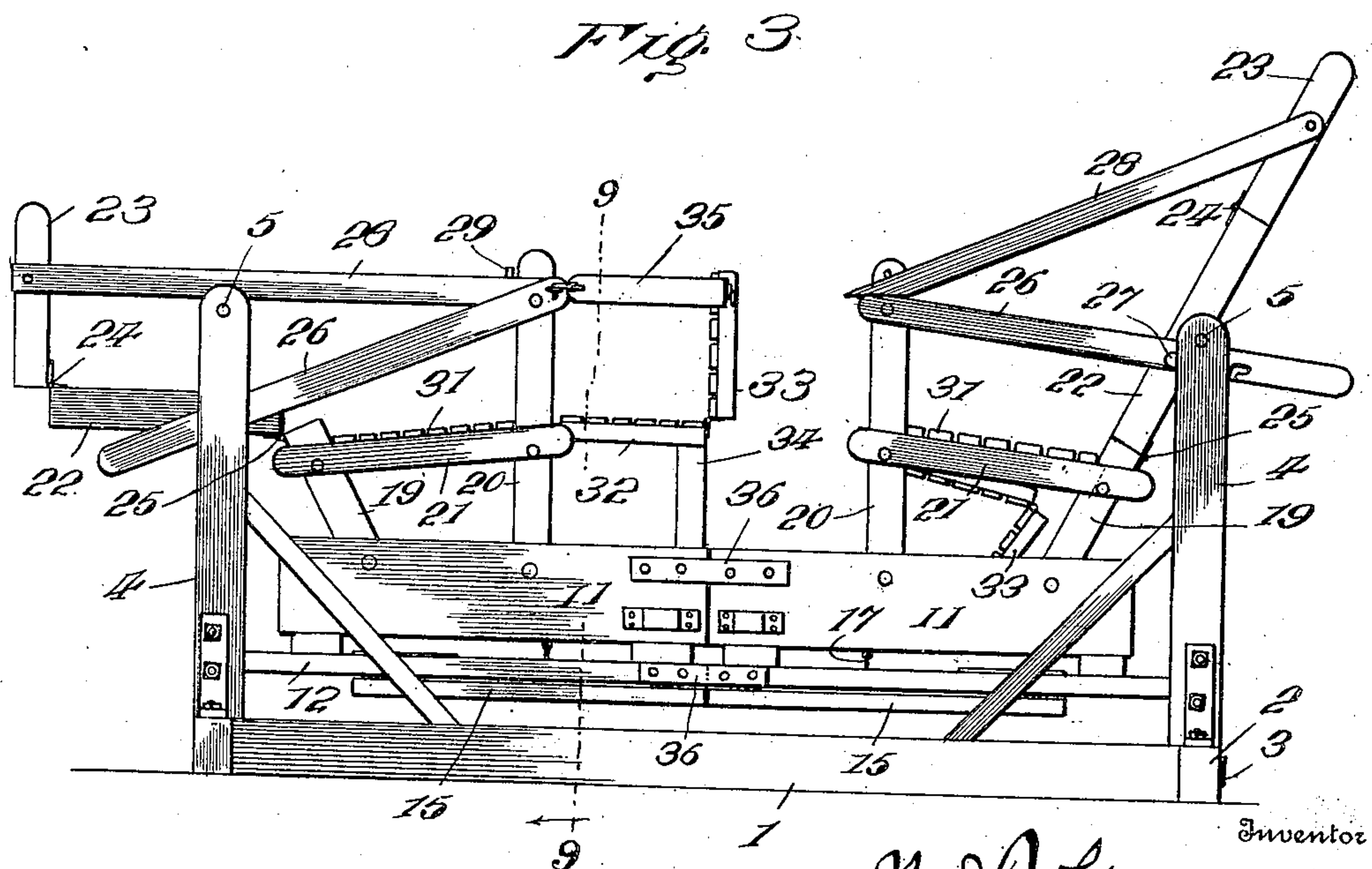
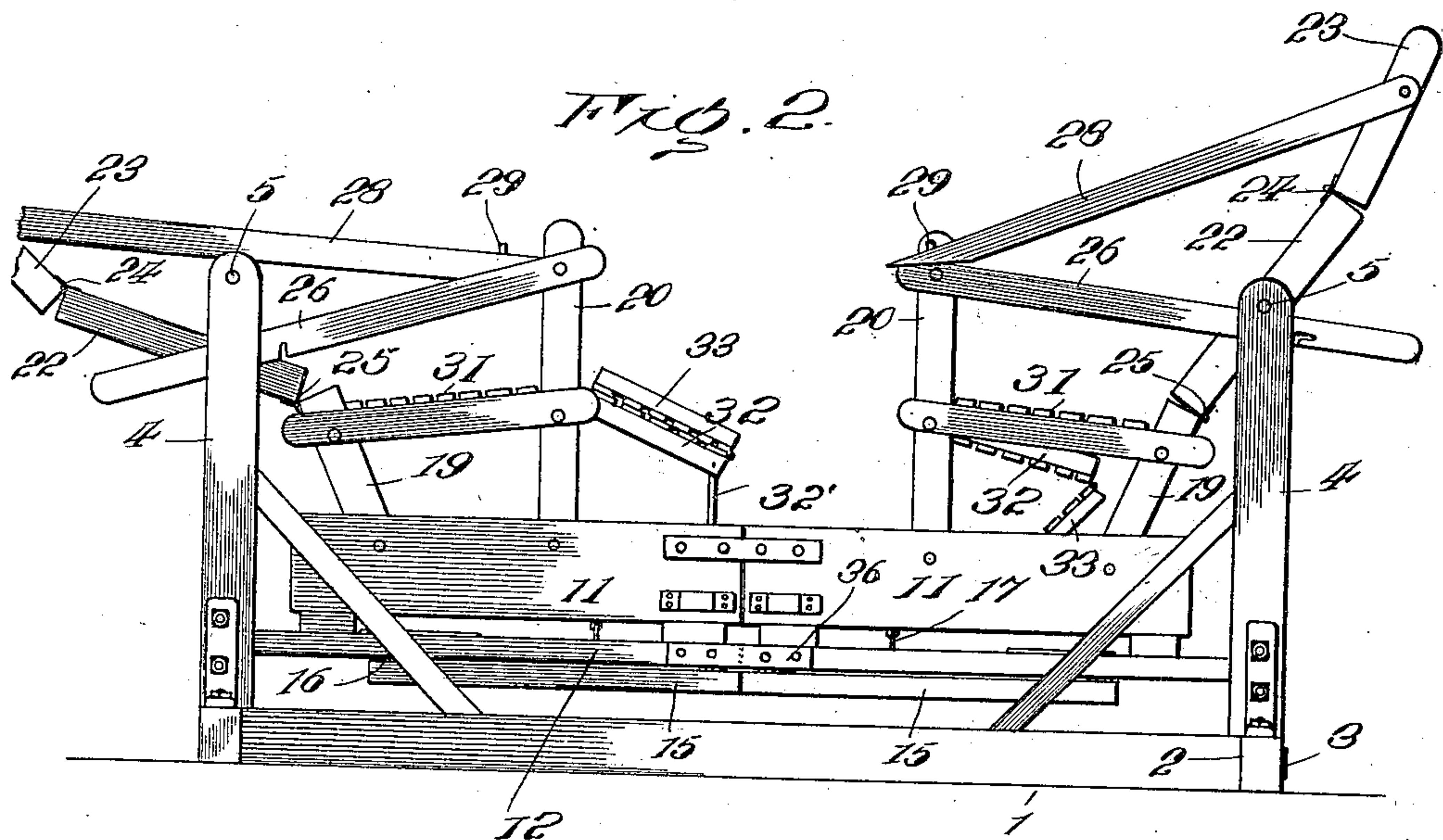
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4 SHEETS—SHEET 2.



Witnesses

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Fig. 4

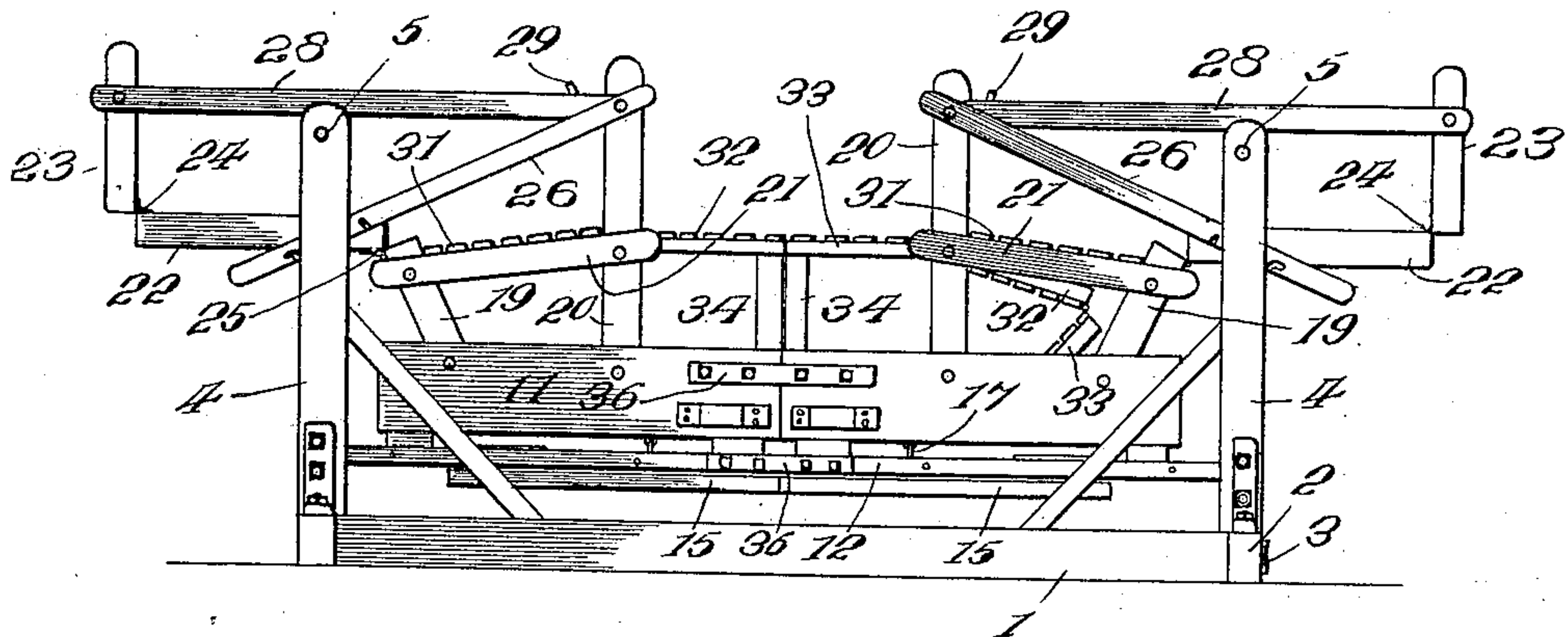


Fig. 5

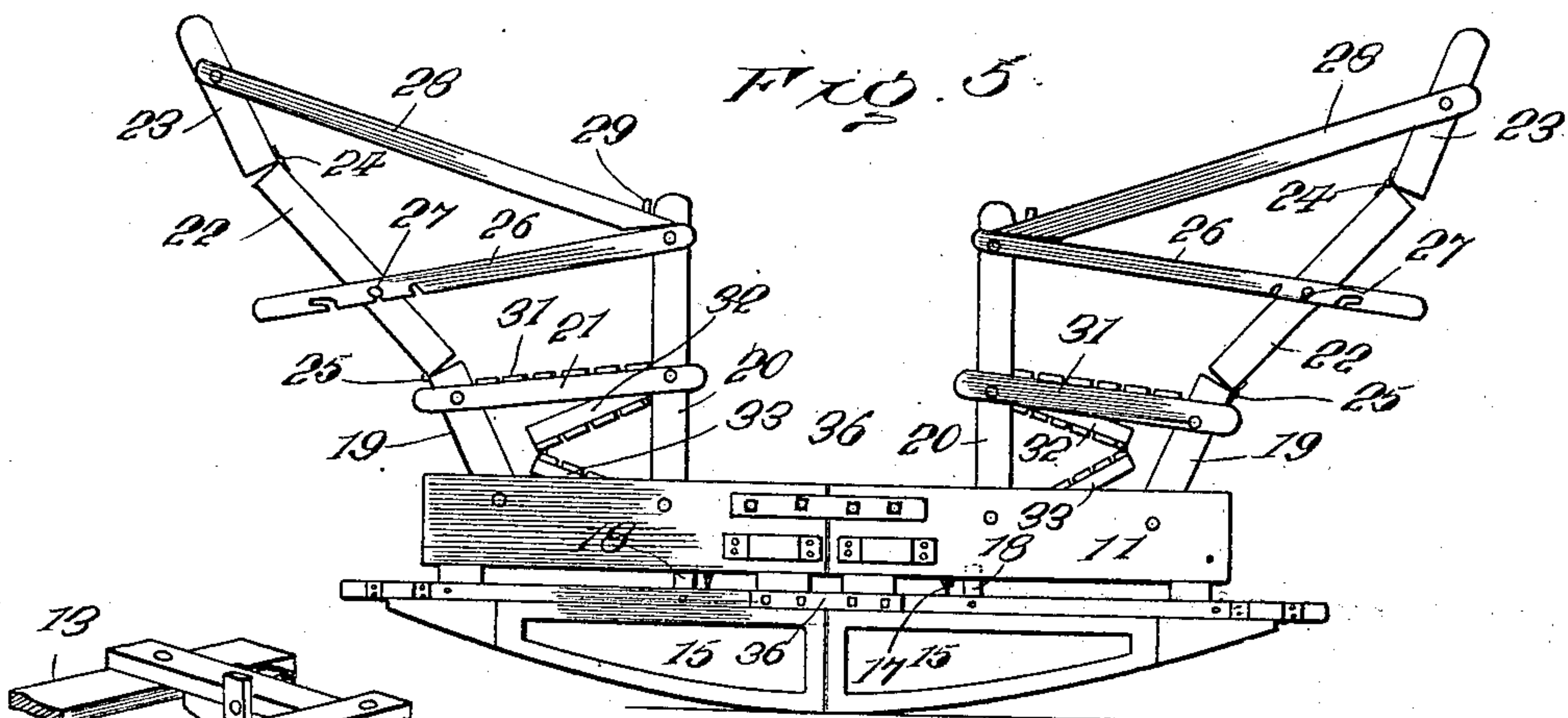
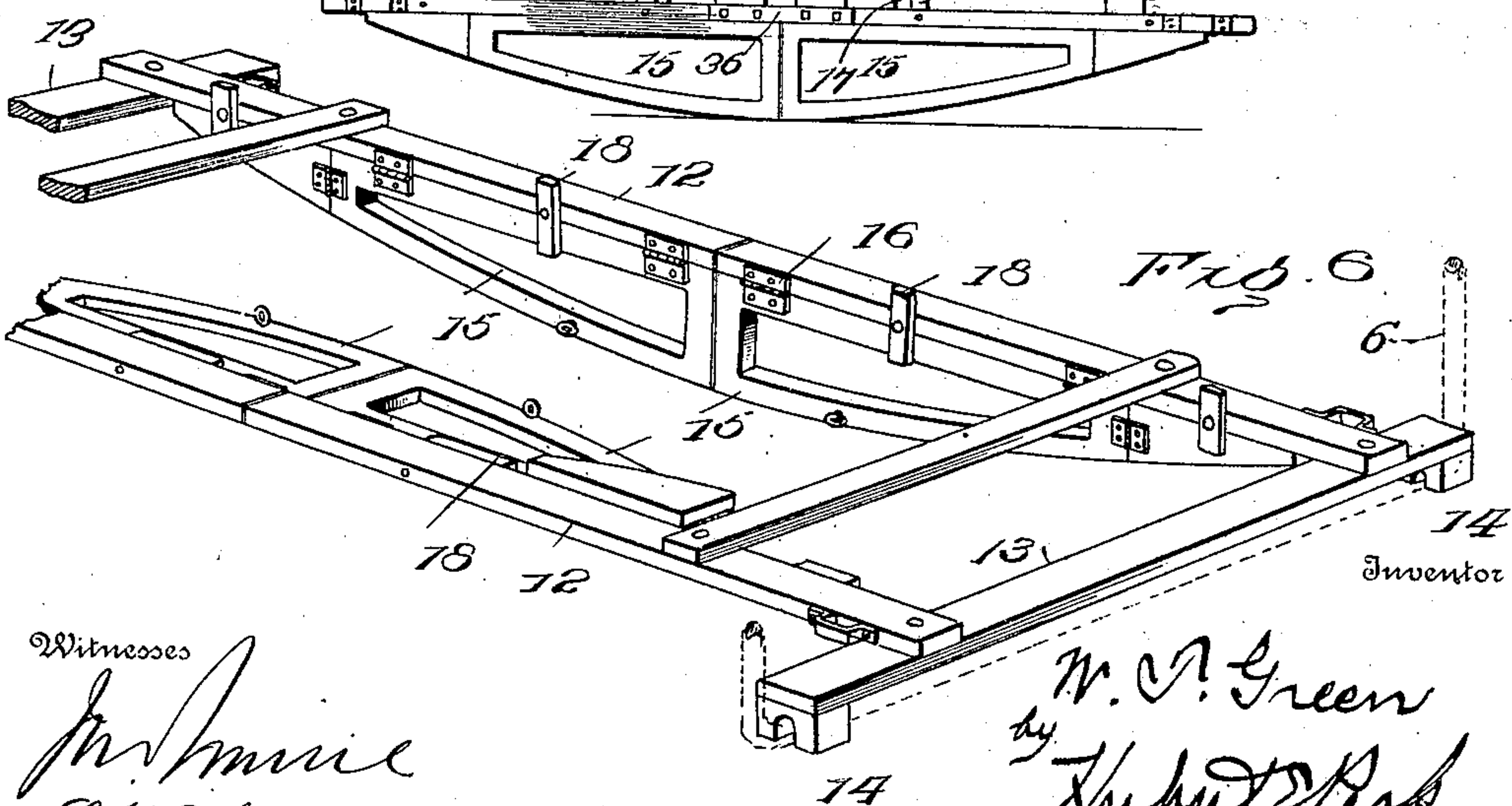


Fig. 6



Witnesses

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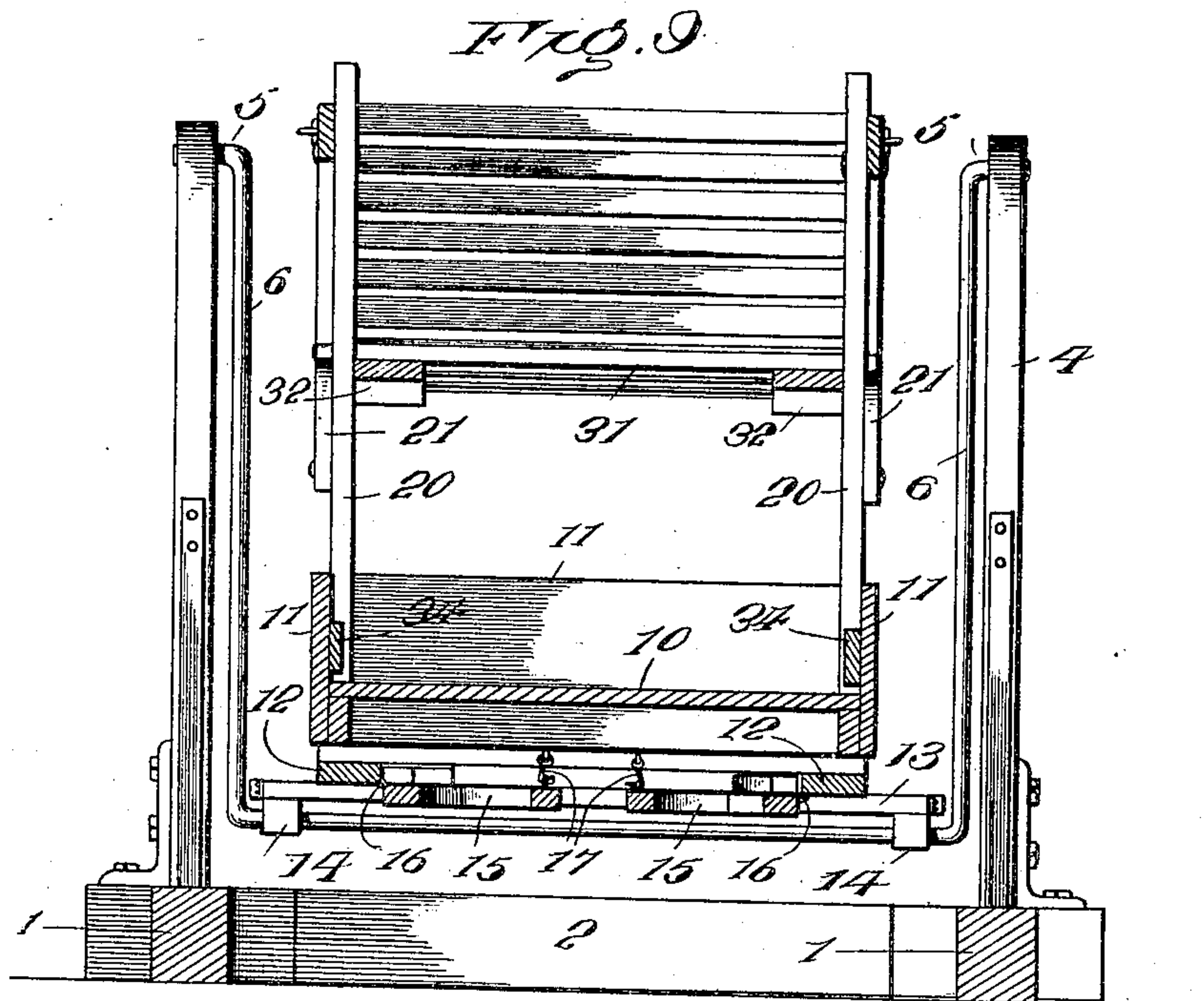
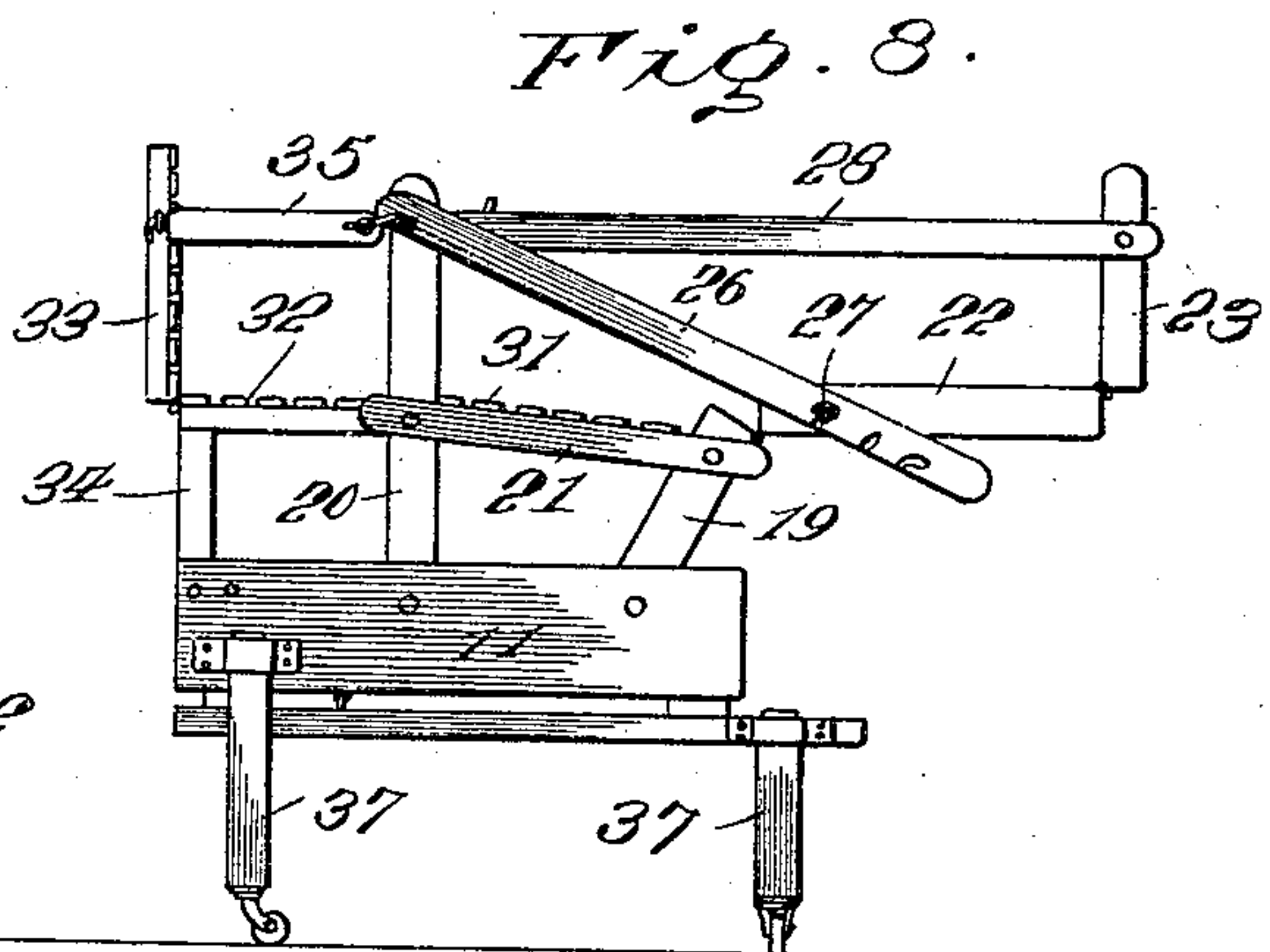
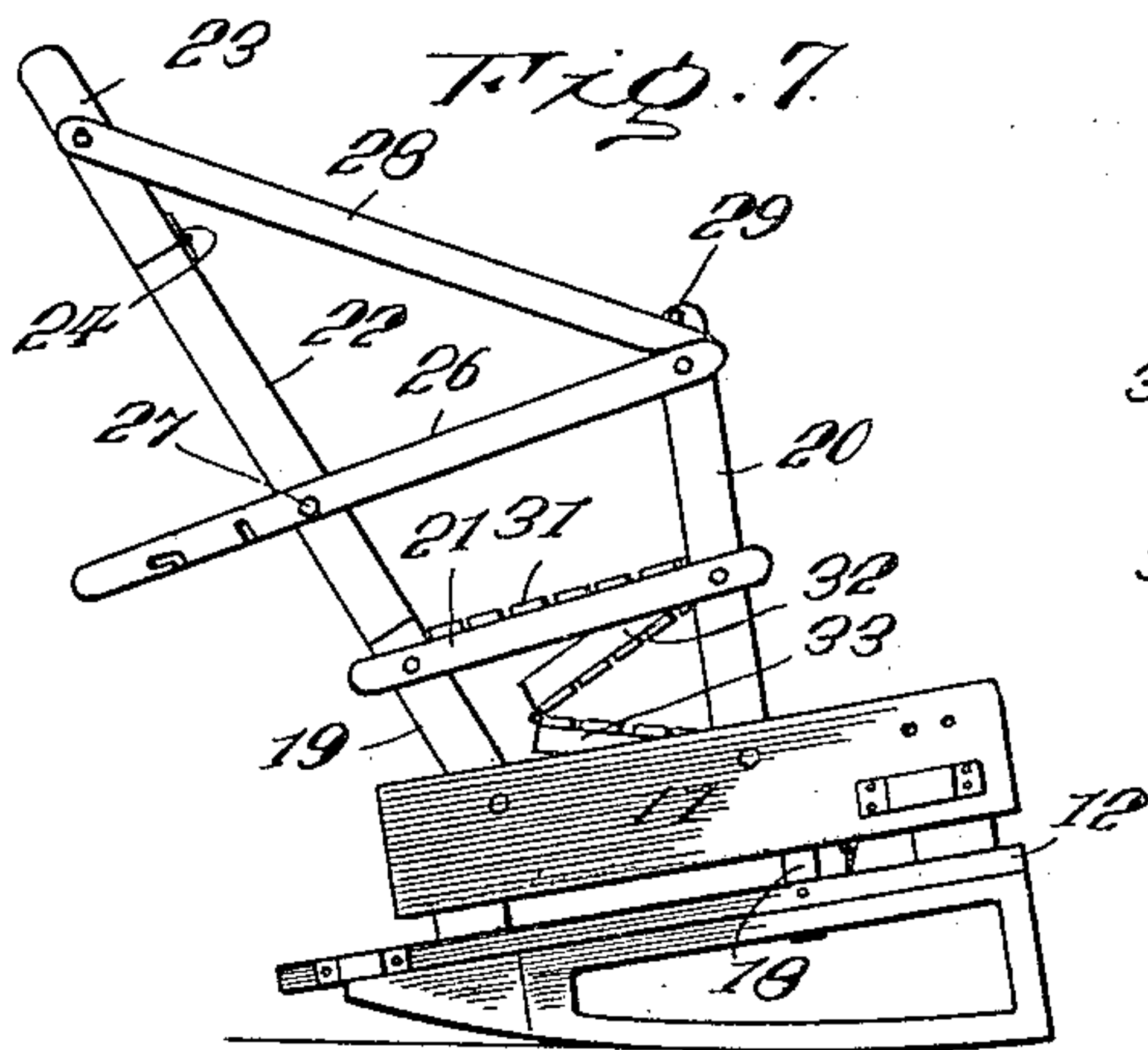
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4 SHEETS—SHEET 4.



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# UNITED STATES PATENT OFFICE.

WILLIAM THOMAS GREEN, OF NORFOLK, VIRGINIA.

## SWING.

No. 886,799.

Specification of Letters Patent.

Patented May 5, 1908.

Application filed September 27, 1905. Serial No. 280,292.

*To all whom it may concern:*

Be it known that I, WILLIAM T. GREEN, a citizen of the United States, residing at Norfolk, Norfolk county, Virginia, 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.

This invention relates to certain improvements in what are commonly called lawn or porch swings.

An object of the invention is to provide an improved swing of a durable and efficient construction embodying depending swinging bails and a swing platform detachably resting on the bails and extending horizontally between the same and carrying one or more chairs or other seats.

A further object of the invention is to provide certain improvements involving additions to the essential structure or the embodiment of my invention in its most simple form described in the preceding paragraph for the purpose of producing devices capable of many adjustments and involving various combinations.

My invention consists in certain novel features in construction and in combinations and arrangements of parts as more fully described hereinafter.

Referring to the accompanying drawings which show various constructions from among others within the scope of my invention:—Figure 1, is a perspective view showing my device adjusted to form a two chair lawn or porch swing, the device being shown provided with a canopy, having side and end curtains, the curtains being shown raised and rolled up. Fig. 2, is a side elevation of the swing, the chairs being shown adjusted to various positions, the canopy not being shown. Fig. 3, is a similar view to Fig. 2 but showing one of the chairs adjusted to form a crib or cot. Fig. 4, is also a side elevation of the swing showing the two chairs adjusted to form a single elongated cot or the like. Fig. 5, is a side elevation showing the swinging platform and chairs removed from the swing frame and adjusted to form a double rocker. Fig. 6, is a detail perspective view, partially broken away, of a portion of the frame work of the horizontal swinging platform showing the folding rockers, one of the rockers being

folded down in operative position, and the other being shown folded up in inoperative position dotted lines indicating a portion of one of the U-shaped swinging links or bails of the swing. Fig. 7, is a side elevation of a single chair and its frame separated and adjusted to form a rocker. Fig. 8, is a side elevation of a single chair and its frame separated or detached, and adjusted to form a crib and provided with rolling supports. Fig. 9, is a cross sectional view taken in the plane of the line 9—9, Fig. 3.

In the drawings, I show a swing support or frame, comprising a horizontal rectangular base or supporting frame comprising the longitudinal side bars 1, and cross bars 2, secured to the end portions of the side bars. Either or both of the end bars 2, can be formed in sections, if so desired, comprising a swinging or detachable intermediate section, one end secured by a hinge 3, and at the other end detachably secured by coupling plate 4<sup>a</sup>, held by bolts. This intermediate section of an end cross bar is in length usually greater by a few inches than the width of the horizontal platform of the swing, hereinafter described, so that the said platform of the swing can be moved easily longitudinally to or from the base frame of the swing through an end thereof when said intermediate section is released by the removal of the coupling plate 4<sup>a</sup> and swung outwardly. By employing the sectional end bars 2, I am also enabled to knock down the swing supporting frame, for convenient packing. At the four corners of said bottom frame and swing support, I arrange rigidly secured and braced vertical posts or uprights 4, so that each end, of said base frame is provided with a pair of vertical corner posts 4. The posts 4 of each pair are provided at their upper ends with aligned horizontal journal boxes arranged transversely thereof, and receiving the upper out-turned or horizontal journal ends 5 of a U-shaped depending swinging bail or link 6.

Two bails 6 are provided, one for each pair of posts 4. Each bail is formed of a single piece of bar or rod iron, or other suitable metal, bent to form the horizontal transverse portion of a length slightly less than the distance between the two posts 4, and the two upright vertical legs extending up at the inner faces of the two posts 4 and



terminating with the out-turned journal portions 5 at their upper ends.

The horizontal platform of the swing at its ends rests detachably or removably on 5 and extends between the horizontal portions of said two U-shaped bails, and is provided with the chairs or other seats so that as the said bails swing, the platform reciprocates back and forth, always maintaining its hori- 10 zontal position.

If so desired, I can provide uprights or supports 7, removably or otherwise bolted or secured to the posts 4, and forming vertical continuations thereof and supporting 15 a top roof, cover or canopy 8, of any suitable or desirable construction, and if so desired provided with side and end curtains 9, which can be dropped down outside of up- rights 7, to inclose the swing and protect or 20 screen the occupant or occupants thereof. Infants or invalids can hence sleep in the swing and yet be protected from the sun or weather, if so desired.

The swing platform comprises a rectangu- 25 lar frame having the depressed floor or bot- tom 10 closing the opening within the frame. The frame comprises longitudinal side and end boards or planks 11, preferably ar- ranged vertically or on edge so as to pro- 30 ject vertically a distance above the floor 10. The frame formed by the boards 11, is in length less than the distance between the pairs of end posts 4 and the bails 6, and hence bottom longitudinal bars 12 are pro- 35 vided rigidly secured to and forming a part of the swing platform and at their ends projecting outwardly beyond the ends of the frame 11. The ends of the bars 12 rest on and are usually detachably bolted to the 40 cross bars 13 projecting laterally beyond the ends of the bars 12. The bars 13 are provided with depending bearing blocks 14 rigidly secured thereto and detachably resting on the end portions of the bottom hori- 45 zontal parts or lengths of the bails 6. The bearing blocks 14, are preferably formed of metal having transverse bearing grooves or depressions at their under surfaces, see Fig. 6, to detachably rest on the bottom hori- 50 zontal portions of the bails, whereby the swing platform can be easily lifted and removed from the bails, and as easily applied thereto. The end cross bars 13 extend approximately the full distance between the 55 vertical portions of the bails 6 and serve to hold the swing platform against lateral play in the bails.

In the specific example illustrated, I show the swing platform provided with a pair of 60 longitudinal folding rockers, so arranged and constructed that when the device is used as a swing as in Fig. 1, these rockers are held out of the way and folded up at the bottom of the platform.

65 The device can be converted into a porch

or lawn double rocker by lifting the swing platform and removing the same from the bails and swing frame, and then folding down these rockers and locking the same in opera- 70 tive position, see Fig. 5, to produce the dou- ble rocker comprising the swing platform pro- vided with two facing chairs and the longitu- dinal parallel bottom rockers, each curving in opposite directions upwardly from its central portion to form a double rocker. As an ex- 75 ample of an arrangement of rockers for this purpose, I show the rockers 15 each formed in sections and arranged longitudinally of and secured by hinges 16 to the longitudinal bars 12, so that the rockers can fold upwardly and 80 inwardly between the bars 12 and to the under side of the floor 10 so as to be out of the way and practically concealed beneath the swing plat- form. The rockers can be held in this folded inoperative position by suitable means such 85 as swinging hooks 17. When in operative position, the rockers are arranged in the ver- tical planes of the bars 12 and rest along their top longitudinal edges against the bottom longitudinal edges of said bars 12. Suitable 90 means can be provided for detachably lock- ing the rockers in operative position. For instance, I show swinging bottoms 18 pivoted to the inner edges of the bars 12 to swing 95 down at the inner faces of the rockers when in operative position, to thereby hold the rockers against folding inwardly and up- wardly.

When the device is to be used as a rocker and after the platform has been removed 100 from the bails 6, I usually remove the sup- porting end cross bars 13, so as to give the rocker a more extensive range of movement.

I show two chairs arranged at opposite ends of the frame 11 of the swing platform. These 105 chairs face each other and are normally separated a sufficient distance to leave the central portion of the platform free for passage to and from the chairs.

I show each chair composed of four legs 110 vertically disposed and bolted or otherwise secured against the inner vertical faces of the side boards of the frame 11. The two back legs 19 are usually arranged at the corners of the frame 11 and project above the same, and 115 the front legs 20 are secured to the rear legs 19 by the side pieces 21. The back of the chair is shown composed of two sections 22, and 23, pivotally united by the hinges 24, so that the top section 23 can swing forwardly 120 from the position in direct upward continua- tion of the bottom section 22 of the back. The bottom section 22 is hinged at 25 to the upper ends of the legs 19 so as to be capable of swinging rearwardly from a position in di- 125 rect upward continuation of said legs.

The position of the back of the chair is determined and the back is upheld by the side arms or links 26, at the front ends pivotally bolted to the upper portions of the front legs 130



20, and at their rear portions having a series of notches in their lower edges to receive the pins or bolts 27 projecting laterally from the back, so that the back can be shifted to various angles of inclination and held by said links. The head or top section 23 of the back is held in the desired position by the side links 28 pivotally joined to said section 23 and at their front ends provided with any suitable adjustable securing means. For instance, I show the front ends of said links 28 cut off at an angle to rest on the top edges of the front portions of the links 26 and provided with movable pins 29 passing there-through and adapted to drop into holes 30 arranged vertically in the links 26, each link 26 having a series of sockets or holes 30 so that the head sections 23 can be held at various positions by placing said pins in different holes or sockets.

31, is the chair seat which, in the specific example illustrated, consists of a series of slats secured rigidly together and having their projecting ends removably resting on side bars 21 of the chair so that the seat with its attached parts, hereinafter mentioned, can be removed. I show the seat provided with a swinging front apron hinged to the front edges of the seat to swing vertically, and this apron is shown composed of two pivotally united or hinged sections 32, 33. The apron is so arranged that the sections thereof can fold approximately together and swing under the seat and out of the way as shown in Figs. 1, 5 and 7, and by the right hand chair of Figs. 2, 3 and 4. The apron can be swung outwardly to assume various positions and form a leg or foot rest, and the section 33 can be omitted, or if desired, the entire apron can be omitted. In left hand chair of Fig. 2, section 33, is shown folded down on section 32, and the apron upheld in an inclined position by a brace or leg 32', hinged to section 32, and swung down to rest on floor 10.

I show pivoted or folding supporting legs or braces 34, each at one end pivoted to the central portion of the side boards of the frame 11 so that said legs can fold down to horizontal positions at the inner faces of said boards as shown in Fig. 1. The legs 34 can independently swing upwardly to the vertical position, see Figs. 3 and 4, to support either or both aprons in various positions.

The chairs as just described are capable of many adjustments so that the occupant can assume various inclined positions or so that one of the chairs can be converted into a crib, see Fig. 3, for a child or infant, the other chair being left in its normal position so that a person can occupy the same while the child is in the crib.

An extra removable link 35 can be provided to hold the section 33, of the apron in the upright position, shown in Figs. 3 and 8,

to close the end of the crib, while the head section of the back closes the opposite end of the crib.

A cot or couch on which an adult can recline at full length can be formed by the two chairs, as shown in Fig. 4, by adjusting the apron of one of the chairs to bridge the space between the two chair seats and by adjusting the chair backs with the section 22, horizontal and the head sections 23 extending vertically therefrom.

The swing platform can be centrally and transversely divided into two sections, and the rockers are also correspondingly divided so that each platform section will have its own rocker. The platform sections are normally rigidly secured together by strong metal coupling plates 36 detachably and longitudinally secured to the longitudinal board 11, and to the bars 12, and bridging the meeting ends of the sections, by suitable bolts, as shown in Figs. 1, 2, 3, 4, and 5. Hence, when the platform is removed from the swing that is from the bails 6, the coupling plates 36 can be removed, and the platform thereby separated into two independent sections each provided with its own chair, each chair having its own platform, and capable of being adjusted to form an independent or individual rocking chair as shown by Fig. 7 which can be adjusted in various positions.

If desired, rolling supports can be provided for the individual chairs. For instance, in Fig. 8, I show the detachable legs 37 applied to the platform sections and provided with bottom rollers, whereby the individual chair can be easily rolled or moved around.

Attention is particularly directed to the fact that the posts 4 and bails 6 of the swing are arranged at the extreme ends of the platform and in rear of the chair seats, thereby reducing to a minimum the danger of the hands or arms of the chair occupants being caught between the bails and chairs during the swinging movement of the device. Possibility of such injury is also reduced by arranging the swing platform considerably less in width than the length of the horizontal portions of the bails 6, so that the vertical portions of the bails are spaced several inches from the adjacent chairs.

What I claim is:—

1. In a swing, in combination, a swing platform, swinging supports therefor, said platform detachably resting on said supports, a pair of chairs mounted on the platform, bottom longitudinal rockers fixed to said platform and adapted to support the same when removed from said supports, said platform and rockers being transversely divided into two approximately similar sections, each provided with a chair and rockers, and means normally securing said sections rigidly together, substantially as described.



2. In a lawn swing, in combination, a frame swinging supports, a horizontally disposed swing platform extending between and carried by said supports and at its end portions removably resting thereon, whereby said platform can be removed from said supports and from said frame, said platform formed in two transverse sections meeting and detachably secured together between said supports, chairs secured on said platform at the end portions thereof, respectively, and normally inoperative supporting devices for said platform sections adapted to separately uphold the same when removed from said swinging supports, substantially as described.

3. In combination, in a swing, a supporting frame, a pair of depending U-shaped swinging bails carried thereby, a swing platform removably resting on and extending between said bails and comprising a rectangular frame having a depressed floor and vertically disposed side and end boards projecting vertically above said floor, said frame in length being less than the distance between the bails and in width being less than the length of the horizontal bottom cross bar of each bail, said platform being provided with end longitudinally projecting bars extending through said bails and cross bars carried by and projecting laterally beyond said bars to form stops to engage the vertical legs of the bails and having open bearing blocks resting on the bottom cross bars of the bails, chairs arranged at the ends of the floor inclosed by said vertically disposed boards and secured thereto, longitudinally arranged folding rockers arranged at the under side of said platform, said platform and rockers being transversely divided to form two separable sections each having a chair and rockers, and means detachably locking said sections together to form one swing and rocker platform.

4. In a lawn swing, in combination, a supporting frame, swinging bails carried thereby, a rectangular swing platform comprising longitudinal bars, said platform having corner extensions carried by said bars and removably resting on said bails, whereby the platform is normally supported in a horizontal position by said bails and whereby the platform can be lifted from said bails and removed from said frame, chairs mounted on said platform, and longitudinal rockers located at the under side of said platform and along their upper longitudinal edges hinged to said longitudinal bars between said corner extensions and normally arranged in inoperative position with respect to the platform, whereby when the platform is removed from the bails it can rest on said rockers.

5. A swing platform provided with chairs and with a pair of fixed longitudinal bars, and a pair of longitudinally arranged inwardly folding rockers, along their upper

edges hinged to said bars to rest longitudinally against the same, and means for holding the same in operative and in folded or inoperative position beneath the platform and between said bars, substantially as described.

6. In combination, a supporting frame provided with depending swinging bails, and a swing platform detachably resting on and supported by and removable from said bails and provided with longitudinal bottom rockers, said rockers being movable into inoperative position in the bottom of the platform, whereby the platform can be removed from the bails and used as a platform rocker, said platform having longitudinal portions against which the upper longitudinal edges of said rockers bear throughout their lengths when in operative position, substantially as described.

7. In combination, a supporting frame having end uprights, a pair of depending swinging bails carried by said uprights and having bottom transverse portions, a horizontal swing platform having removable lateral end extensions removably resting on the transverse portions of said bails and thereby supporting said platform, seats mounted on said platform, and longitudinal rockers arranged at the under side of said platform between said lateral end extensions, and adapted to form a rocking support for said platform when lifted from said bails and said end-extensions are removed, substantially as described.

8. In combination, in a swing, a supporting frame, a pair of depending U-shaped swinging bails carried thereby, a swing platform removably resting on and extending between said bails and comprising a rectangular frame having a depressed floor and vertically disposed side and end boards projecting vertically above said floor, said frame in length being less than the distance between the bails and in width being less than the length of the horizontal bottom cross portion of each bail, said platform being provided with end longitudinally projecting bars extending through said bails, and cross bars carried by and arranged over and parallel with the cross portions of the bails and projecting laterally beyond said bars to form stops to engage the vertical legs of the bails and having bearing blocks resting on said cross portions, and chairs arranged at the ends of the floor inclosed by said vertically disposed boards and secured thereto.

9. In combination, in a swing, a supporting frame, a pair of depending U-shaped swinging bails carried thereby, and a horizontally disposed swing platform removably resting on and extending between said bails and supported thereby and comprising a frame in length less than the distance between said bails and in width less than the



horizontal bottom cross portion of each bail,  
and provided with end longitudinally pro-  
jecting bars extending through said bails,  
and cross bars arranged over the cross por-  
5 tions of said bails and secured to and pro-  
jecting laterally beyond said longitudinal  
bars toward the vertical legs of the bails and  
having open bottom bearing blocks resting

on said cross portions of the bails, substan-  
tially as described. 10

In testimony whereof I affix my signature,  
in presence of two witnesses.

WILLIAM THOMAS GREEN.

Witnesses:

JAMES P. COX,

JOHN I. COFER.