

No. 804,663.

PATENTED NOV. 14, 1905.

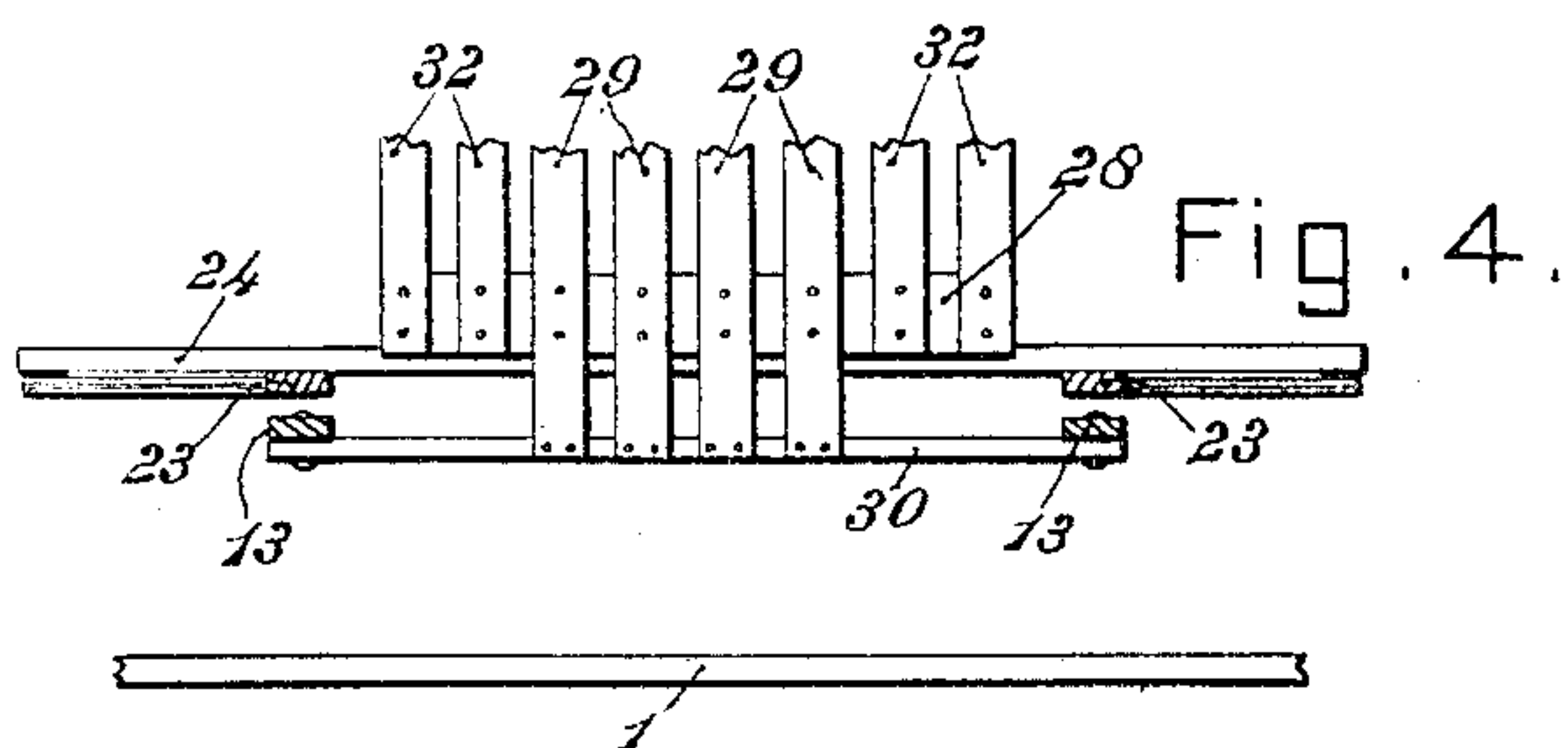
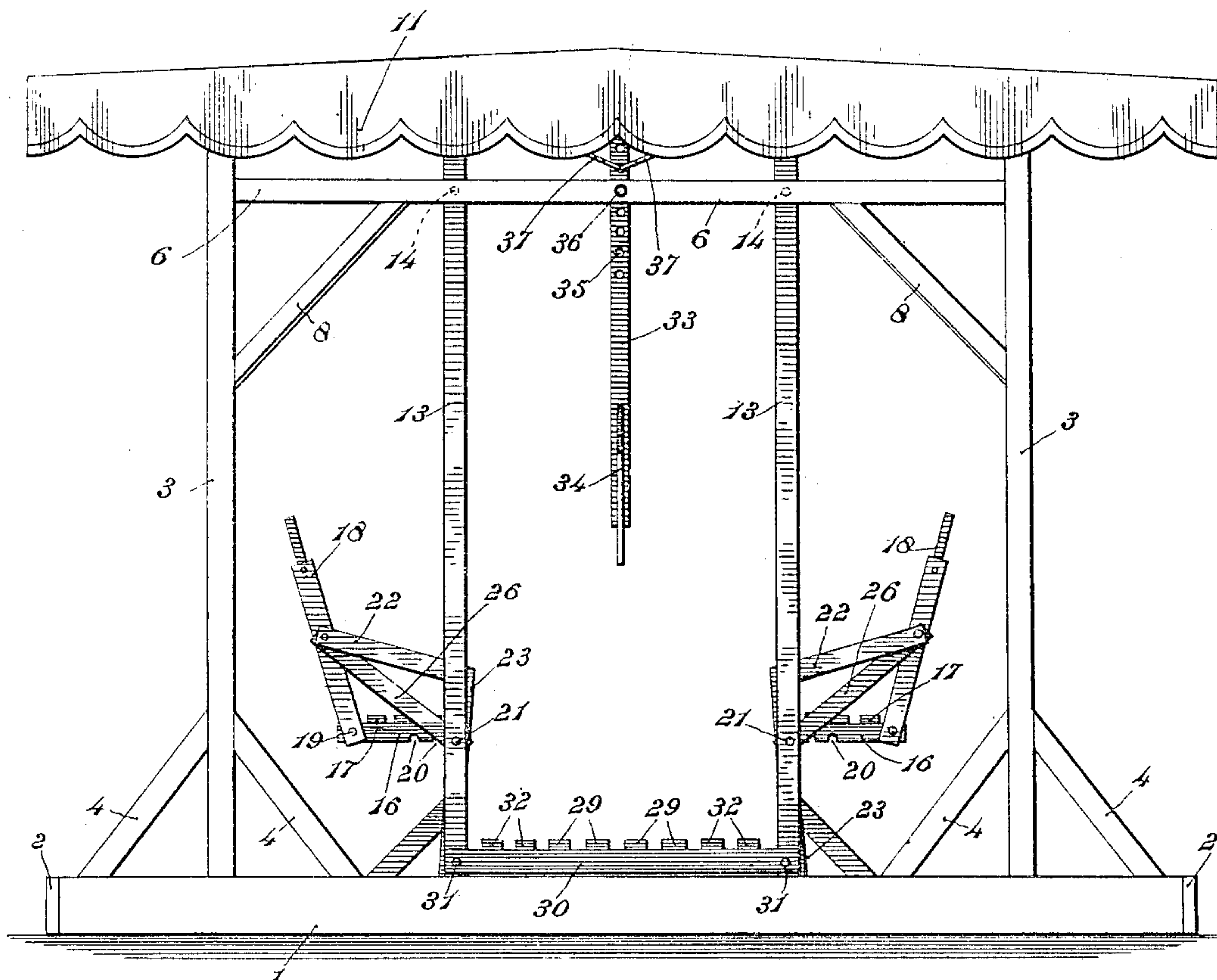
A. W. KIRKPATRICK.

SWING.

APPLICATION FILED MAY 12, 1905.

2 SHEETS—SHEET 1.

Fig. 1



*Austin W Kirkpatrick*

Witnesses

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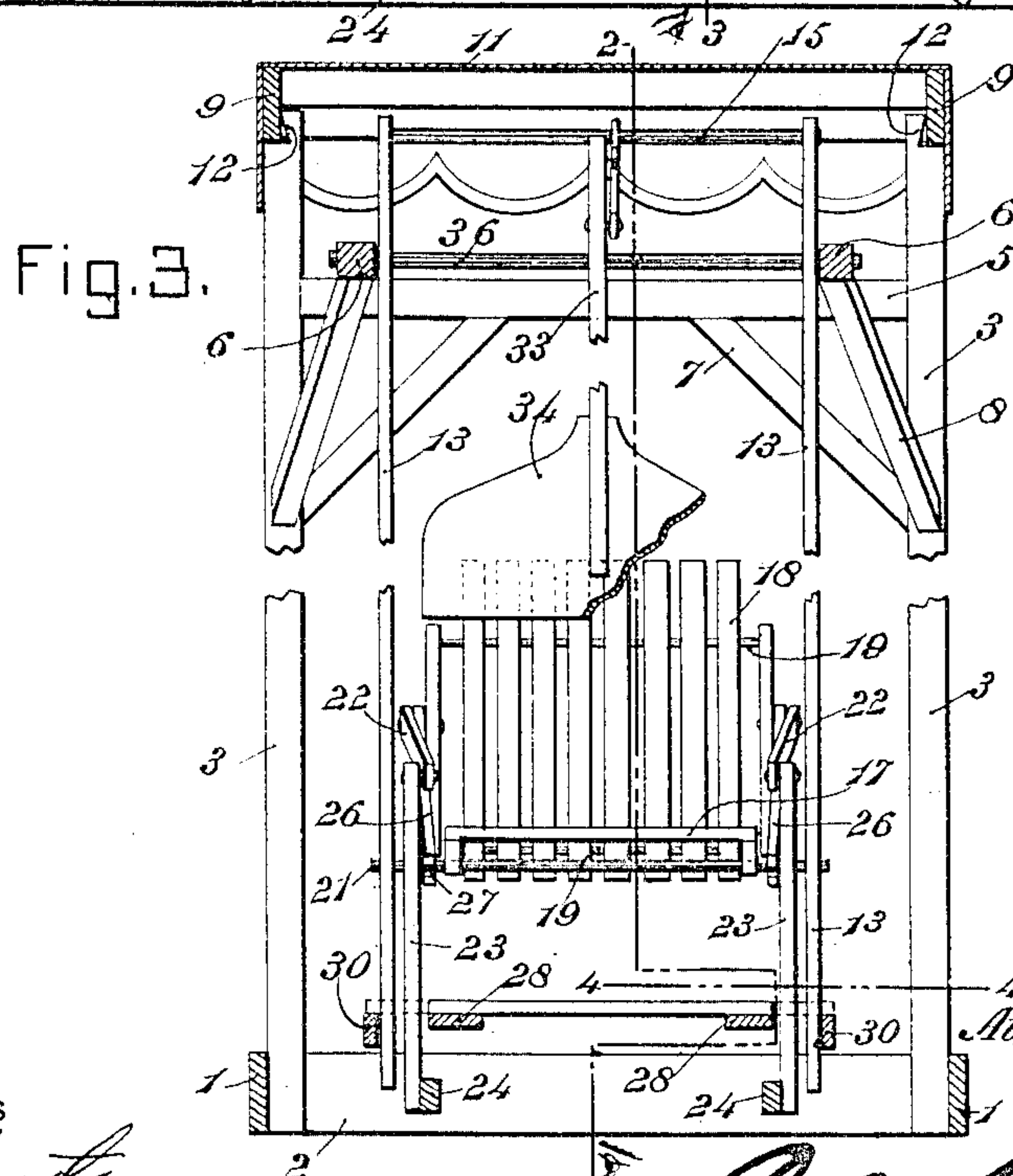
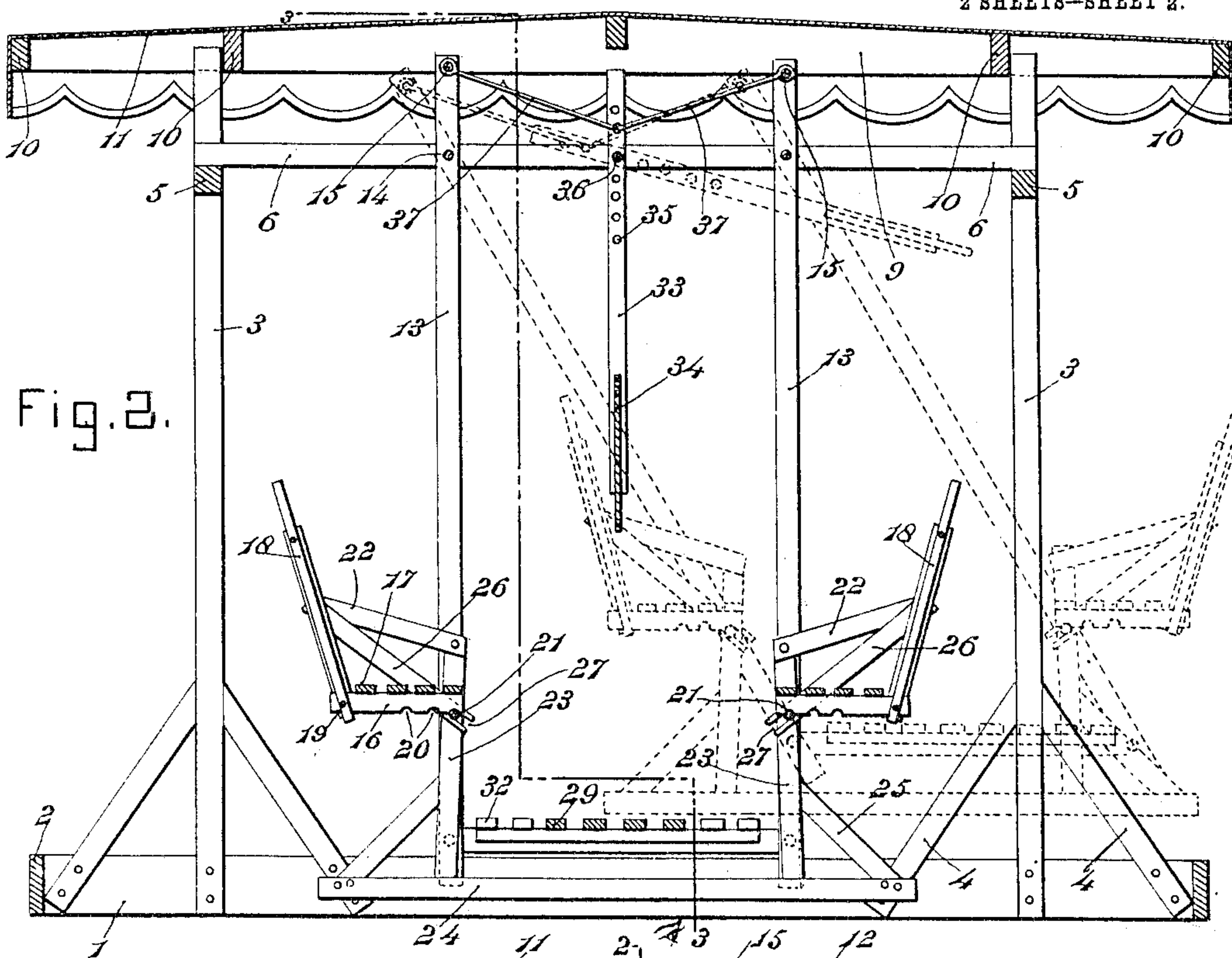
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# UNITED STATES PATENT OFFICE.

AUSTIN W. KIRKPATRICK, OF HODGENVILLE, KENTUCKY.

## SWING.

No. 804,663.

Specification of Letters Patent.

Patented Nov. 14, 1905.

Application filed May 12, 1905. Serial No. 260,132.

*To all whom it may concern:*

Be it known that I, AUSTIN W. KIRKPATRICK, a citizen of the United States, residing at Hodgenville, in the county of Larue and State of Kentucky, have invented a new and useful Swing, of which the following is a specification.

This invention relates to swings, and has for its object to provide an improved lawn or porch swing which may be conveniently set up and wherein the chairs or seats remain in a horizontal position throughout the swinging movements thereof without in any manner interfering with the free swing of the hangers for the seats or chairs.

A further object of the invention is to equip the swing with a novel arrangement of fan, which is actuated by the swinging movement of the seats or chairs without requiring any attention on the part of the occupants of the swing.

A still further object of the invention is to provide for folding the seats or chairs in compact form when the swing is not in use.

With these and other objects in view the present invention consists in the combination and arrangement of parts, as will be hereinafter more fully described, shown in the accompanying drawings, and particularly pointed out in the appended claims, it being understood that changes in the form, proportion, size, and minor details may be made within the scope of the claims without departing from the spirit or sacrificing any of the advantages of the invention.

In the accompanying drawings, Figure 1 is a side elevation of a swing embodying the features of the present invention. Fig. 2 is a longitudinal sectional view on the line 2 2 of Fig. 3. Fig. 3 is a cross-sectional view on the line 3 3 of Fig. 2. Fig. 4 is a detail plan section on the line 4 4 of Fig. 3.

Like characters of reference designate corresponding parts in each and every figure of the drawings.

The supporting-frame for the present swing includes a base made up of longitudinal sills 1, having their ends connected by the respective cross-sills 2. Adjacent each end of each longitudinal sill there is an upstanding post 3, which is braced by a pair of upwardly-converged braces 4, secured to the inner side of the sill and to opposite sides of the post.

The two posts at each end of the frame are connected by an overhead cross-bar 5, disposed at a suitable distance below the tops of the posts, and the cross-bars are connected by overhead longitudinal beams or bars 6, which are spaced inwardly from the posts. Braces 7 extend between the posts and the under sides of the overhead cross-bars 5, and other braces 8 extend between the posts and the overhead longitudinal beams 6, which completes the rigid frame structure, from which the swinging seats or chairs are hung.

A canopy or top is provided for the frame, consisting of side bars 9 and cross-bars 10, there being a cover or canopy 11, of canvas or other material, stretched over this frame. As best indicated in Fig. 3 of the drawings, it will be noted that the upper end of each post 3 is notched or mortised upon its outer side, as shown at 12, to constitute a seat for the reception of the respective side frame-bars 9 of the cover or canopy, whereby the latter is detachably seated upon the frame. Upon reference to Fig. 2 of the drawings it will be noted that two of the cross-bars 10 of the canopy-frame are spaced to lie against upright faces of the posts 3, so as to prevent endwise displacement of said cover or canopy.

For the support of each seat or chair there is a pair of hanger-bars 13, each pair of bars rising between and above the upper frame-bars 6 and pierced by a rod 14, which also passes through the frame-bars 6 and is held in place by nuts or other suitable detachable fastenings, whereby the hangers are pivotally suspended from the overhead portion of the frame. The upper extremities of the hangers are connected by a rod or cross-bar 15, so as to brace the same.

Between each pair of hangers 13 is a chair including a seat made up of spaced side bars 16, connected by slats 17 and having a back 18, hinged or pivoted to the rear ends of the side bars 16, as at 19. The under edges of the side bars 16 are provided with a series of notches or seats 20 for individual engagement with a cross-bar 21, loosely piercing the adjacent hangers 13. At each side of the back there is an arm 22, which extends forwardly and is connected to the upper end of a seat-standard 23, an intermediate portion of the standard being loosely pierced by the cross-



bar 21 and its lower end rigidly connected to the rail 24, said rail extending in rear of each standard and having an inclined brace 25, extending between the adjacent end of the rail and the standard. A brace 26 inclines downwardly and forwardly from each side of the back 18 and has its forward end provided with a longitudinal bifurcation 27, receiving the cross-bar 21. From this description it will be understood that each seat is supported by the adjacent pair of hangers and the standards of the opposite seats are rigidly connected by the rails 24, whereby the seats are connected for simultaneous movement in opposite directions.

Situated between the seats or chairs is a foot-platform made up of side bars 28, a central set of slots 29 connecting the side bars 28 and projecting beyond the same with their ends connected to bars 30, which are in turn pivotally connected to the lower ends of the hangers, as at 31. End slats 32 extend between the side bars 28 of the platform and terminate at the outer edges of the said bars, so as to produce slots or spaces to receive the adjacent seat-standards 23 at the alternate limits of the swinging movement of the swing.

A very important advantage of the present construction and arrangement resides in the fact that the opposite seats or chairs are pivotally supported between the respective pairs of hangers and are also mutually connected independently of the hangers, so as to maintain the seats in substantially horizontal positions during the entire swinging movements thereof, which obviates any individual movements of the seats and backs, and therefore renders the device more comfortable than in such other forms of swings where there is relative movement between the seat and the back. The present swing is manipulated by the occupant or occupants pressing their feet upon the platform in the usual manner.

It is also proposed to equip the device with a fan which consists of an upright stem or bar 33, located between the two pairs of hangers and provided at its lower end with a fan-blade 34. The upper end portion of the bar or stem is provided with a series of perforations 35 for the reception of a cross-bar 36, supported upon the upper frame-bar 6 and upon which the stem or bar is designed to swing. Motion is imparted to the fan from the swinging hangers by means of links 37, pivotally secured to the cross-bars 15 at the upper ends of the hangers with their other ends inclined downwardly and detachably hooked into one of the perforations 35, whereby the fan will be swung back and forth with the hangers, so as to produce a current of air over the heads of the occupants of the seats.

Having fully described the invention, what is claimed is—

1. In a swing, the combination of a supporting-frame, a pair of hangers mounted to swing thereon, a seat pivotally supported between each pair of hangers, fixed standards depending from each seat, and rails rigidly connecting the corresponding standards of the opposite seats to maintain said seats in substantially horizontal positions throughout the swinging movements of the hangers.

2. In a swing, the combination with a supporting-frame, of pairs of hangers mounted to swing thereon, rails pivotally connecting the lower ends of corresponding hangers, a foot-platform supported upon the rails, a seat pivotally supported between each pair of hangers, rigid standards depending from each seat, and bars rigidly connecting corresponding standards independently of the hangers.

3. In a swing, the combination with a supporting-frame, of pairs of hangers mounted to swing thereon, a seat pivotally supported between each pair of hangers, rigid standards depending from each seat, rails rigidly connecting corresponding standards, and a foot-platform pivotally connected to the pairs of hangers independently of the seats, the opposite ends of the platform being provided with openings in which the standards are alternately received at opposite limits of the swinging movements of the hangers.

4. In a swing, the combination with a supporting-frame, of pairs of hangers mounted to swing thereon, rails pivotally connecting corresponding members of the hangers, a seat pivotally supported between each pair of hangers, rigid standards depending from the seats, bars rigidly connecting corresponding standards to maintain the seats in substantially horizontal positions throughout the swinging movements of the hangers, slats extending between intermediate portions of the rails, side bars secured transversely across the slats and spaced inwardly from the rails, the openings between the ends of the side bars of the rails serving to receive adjacent standards at opposite limits of the swinging movements of the hangers, and other slats connecting the end portions of the side bars.

5. In a swing, the combination with a supporting-frame, of a pair of hangers mounted to swing thereon, a cross-bar connecting the hangers, a seat supported upon the cross-bar, a back rising from the seat, standards carried by the cross-bar, arms extending between the back and the standards, and braces secured to the back with their forward ends bifurcated and straddling the cross-bar.

6. In a swing, the combination with a supporting-frame, of hangers mounted to swing thereon, a cross-bar connecting the hangers, a seat having a series of notches in its under side for individual engagement with the cross-bar, a back pivotally rising from the seat,



standards rising from the cross-bar, arms rigidly connected to the standards and pivotally connected to the back, and braces pivotally connected to the back at the points of pivotal  
5 connection between the arms and the back with their forward ends bifurcated and straddling the cross-bar.

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

AUSTIN W. KIRKPATRICK.

Witnesses:

C. C. HOWARD,

MORIAS HANSBROUGH, Jr.