

No. 671,277.

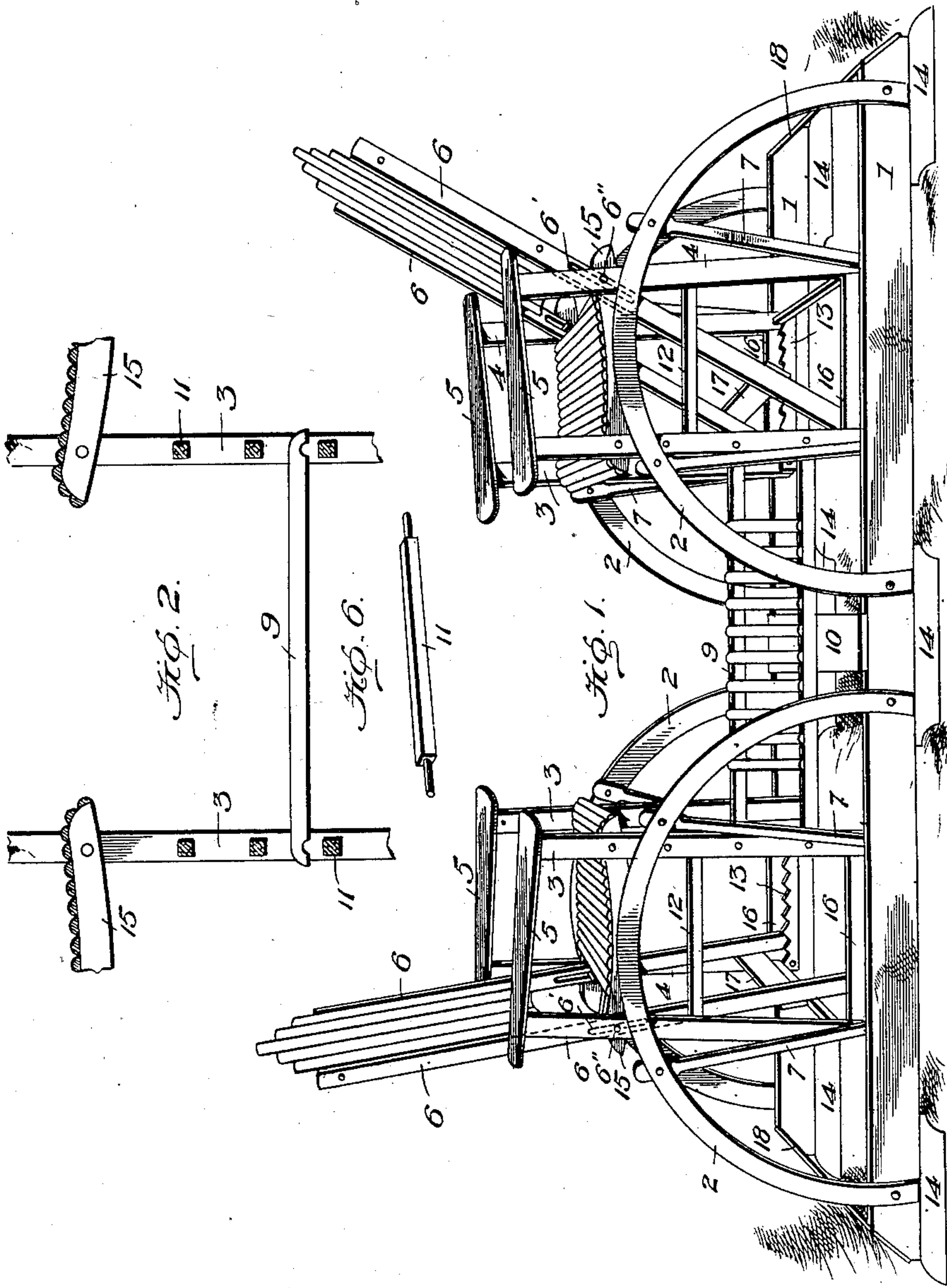
Patented Apr. 2, 1901.

J. E. FRY.  
SWING.

(Application filed Apr. 23, 1900.)

(No Model.)

2 Sheets—Sheet 1.



Witnesses

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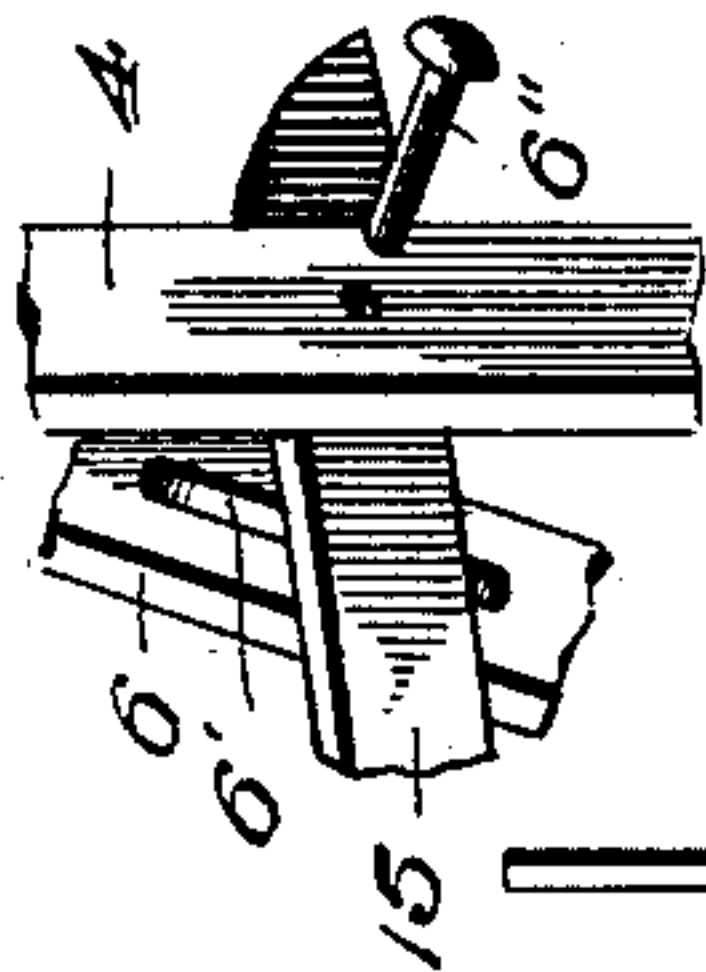
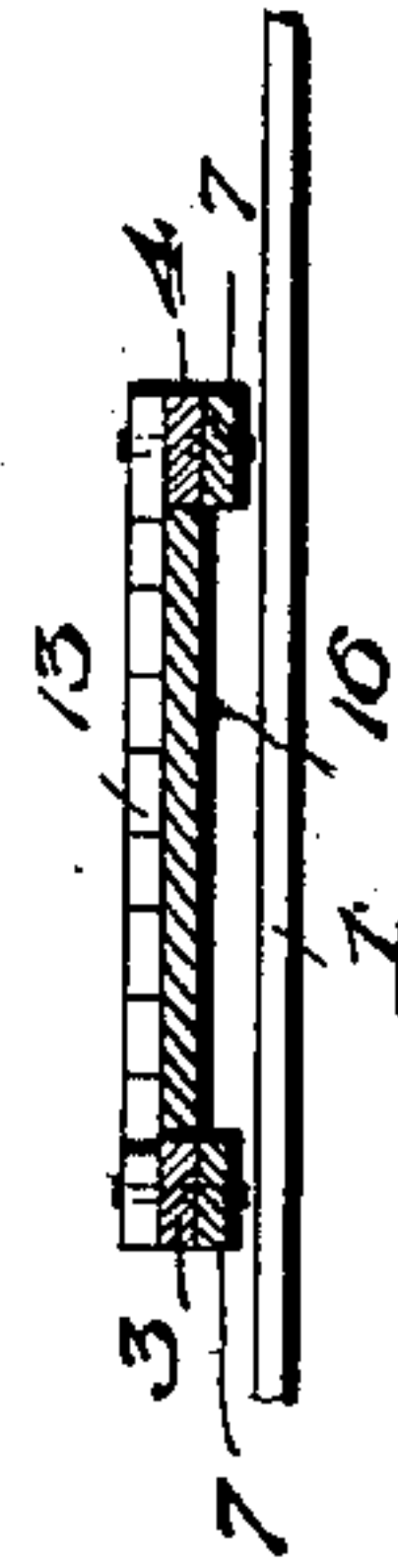
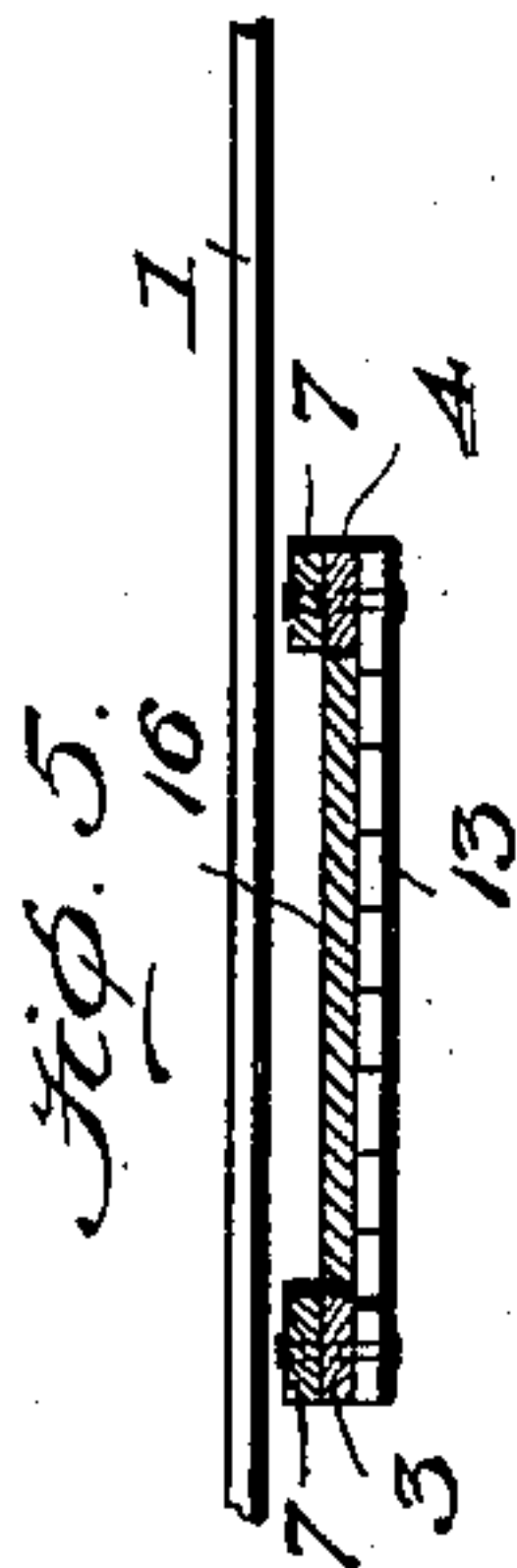
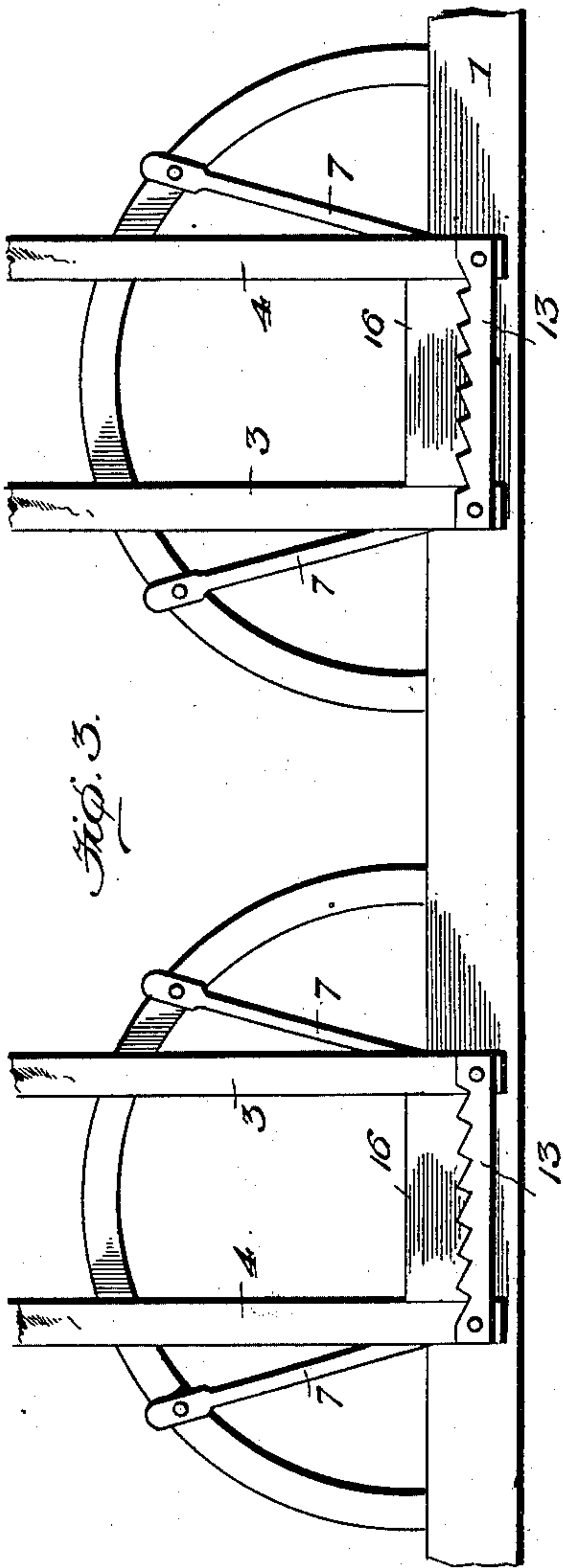
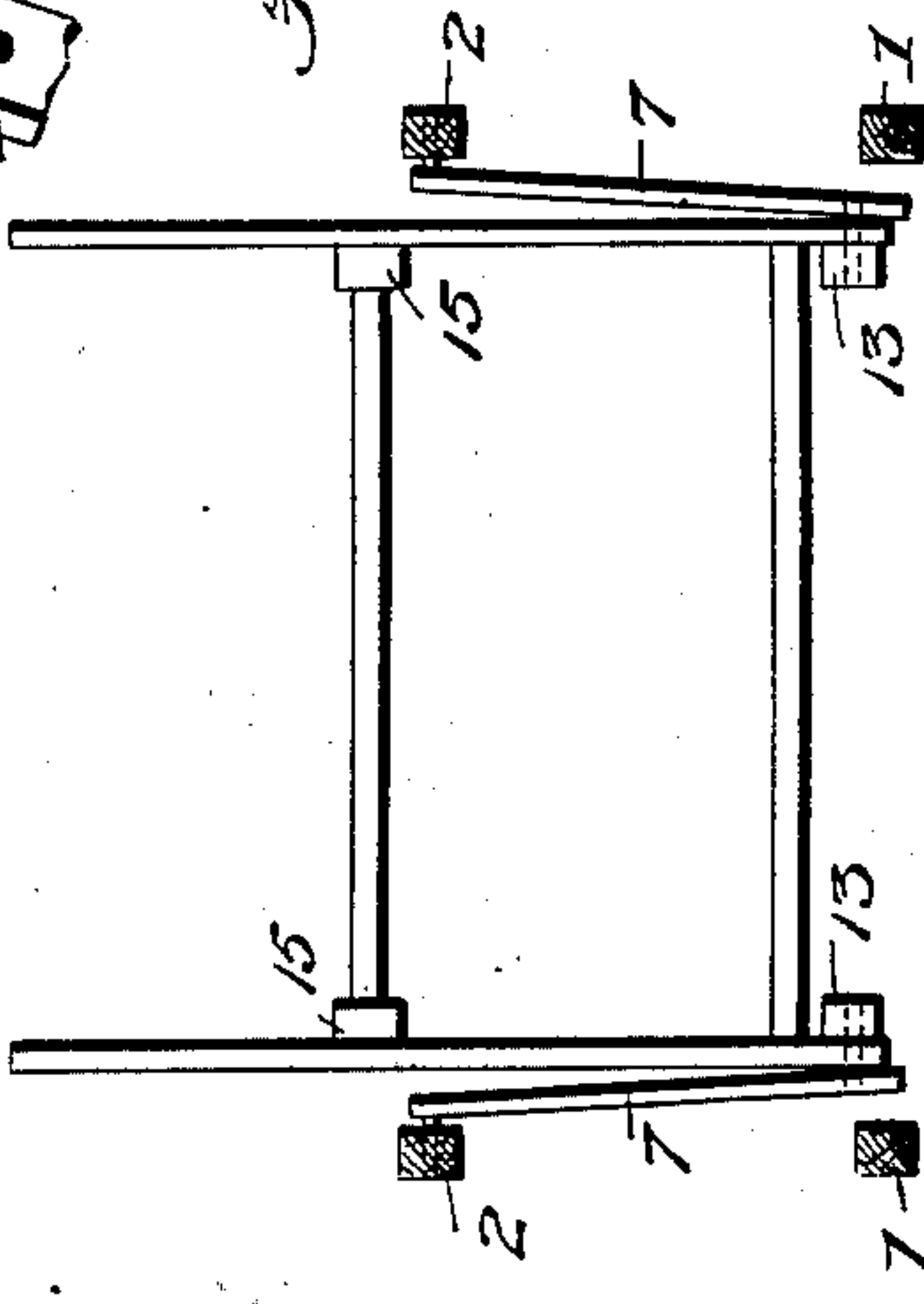


Fig. 4.

Fig. 7.



Witnesses

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# UNITED STATES PATENT OFFICE.

JAMES E. FRY, OF RICHMOND, INDIANA, ASSIGNOR TO FRY BROTHERS,  
OF SAME PLACE.

## SWING.

SPECIFICATION forming part of Letters Patent No. 671,277, dated April 2, 1901.

Application filed April 23, 1900. Serial No. 13,908. (No model.)

*To all whom it may concern:*

Be it known that I, JAMES E. FRY, a citizen of the United States, residing at Richmond, in the county of Wayne and State of Indiana, (whose post-office address is Richmond, Indiana,) have invented new and useful Improvements in Swings; and I do declare the following to be a full, clear, and exact description of my 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 the figures of reference marked thereon, which form a part of this specification.

My invention relates to improvements in swings in which the reciprocating motion is imparted by pressure on the foot-board and also on the backs of the seats, the swing being pivotally mounted in a suitable frame.

One object of my invention is to provide a swing in which the supporting-frame will not extend above the seats and at the same time to provide for a long sweeping reciprocating motion of the seats.

Another object is to provide a swing with adjustable backs to the seats, so that the operator can swing while in an upright or in a reclining position.

Another object is to provide a swing with an adjustable foot-board which can easily and quickly be raised or lowered, as desired.

Another object is to provide a swing which can easily be taken apart or put together for shipment or storage.

Still another object is to provide a new article of manufacture in a swing that can be manufactured and sold at a very low price; and still another object is to provide a swing symmetrical in form and outline and to generally improve the construction of swings of this character.

I attain these objects by the mechanism and arrangement of parts illustrated in the accompanying drawings, in which similar figures of reference denote similar parts throughout the several views.

Referring now to the drawings, Figure 1 is a side view of my swing in perspective. Fig. 2 is a detail view showing the manner of adjusting the foot-board. Fig. 3 is a side elevation of the inner face of the working parts.

Fig. 4 is a vertical transverse view showing the arched members in section. Fig. 5 is a horizontal section taken through the lower portion of one chair with the sills in full lines. Fig. 6 is a detail of one of the cross-bars for the platform, and Fig. 7 is a detail of the adjustable connection for the back.

The sills 1, joined together by the girders 18 and provided with the four arched members 2, rising above said sills, constitute the base or support of my swing, as shown in Fig. 1. The arched members 2 are arranged in pairs, as shown. Between each pair of arches a seat is mounted, said seat consisting of four upright members 4 4 and 3 3, said members being united above the arches by the members 5 to form arms for the seat and united below the arch by the members 12 and 16. The upright members 3 and 4 are also united by the members 15 to form a support for the seats. Each chair is provided with an adjustable back, consisting of the members 6 6, united at the top in any manner desired to form a support for the back and shoulders of a person and united at the bottom by members 17. The members 6 have slots 6' intermediate their ends, through which loosely pass the pins 6'', projecting from the members 4 and 15, thus providing an adjustable or slidable pivotal connection for the back at this point, whereby it can be adjusted as an entirety in relation to the seat and brought to any desired degree of inclination. The lower points of the members 6 6 are beveled or sharpened, so as to engage in the notches of the rack 13. By this arrangement it can be seen that the back of the seat can be placed perpendicular or at an angle, as desired. The rack 13 is securely fastened to the member 16 and also to the uprights 3 and 4 and securely joining all of said members. The chairs are suspended in place between the arches 2 by means of arms or links 7, said arms being pivoted at their lower ends to the lower ends of the members 3 and 4. The arms 7 then extend upward and slightly outward and are pivoted at the top to the arches 2 at about one-third of the circumference of the arches, thus suspending the chairs and allowing them to swing with a reciprocating motion.

It is apparent that the chairs or seats can



be used independently of each other; but in order to join them together and give them a uniform motion a platform or foot-rest 9 is provided, which consists of two parallel bars 5 joined together by slats. Near each end of each of these bars notches are provided on the under side of these bars which are adapted to hook over the bars 11. The bars 11 extend across from the members 3 3 of each chair and arranged at frequent intervals, so that the platform or foot-rest can be placed at any height desired. It will now be seen that if the platform or foot-board 9 is hooked over the bars 11 of each chair then the chairs 15 will be connected together and a reciprocating motion given to one chair will impart a like motion to the other chair, thus causing the chairs to move in unison.

10 represents a board or bar extending across the center of the frame to bind the sills 1 1 together.

14 represents feet or blocks to slightly elevate the swing from contact with the ground or floor.

25 It is desirable that my swing be put together with bolts and screws, so as to facilitate the work of setting up or taking down the swing when desired, and as there are comparatively few parts it is evident that 30 this can be easily accomplished.

Another important feature of my swing is that the supporting-frame does not rise above the head of the person or persons in the swing, thus allowing an unobstructed view 35 to and from the swing. Another advantage of this is that the swing can be placed on a veranda or in a room where it would be impractical to place the old-style swing.

In operating the swing the pressure exerted by a person occupying one of the seats 40 will be divided between the seat and the platform, or if the person reclines against the back the pressure will be divided between the back and the platform, resulting in either 45 instance in a movement of the swing.

It will of course be understood that various changes in the form, proportion, and minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of this invention. 50

It is evident that I provide a swing which can be made to accommodate two, four, six, or more persons, that my swing can be made 55 of any size desired, and that any suitable material may be employed in its construction.

Having thus described the invention, what is claimed, and desired to be secured by Letters Patent, is—

60 1. In a swing, the combination with swinging chairs, comprising fixed seats and legs, and backs adjustable independently of the seats of a foot-rest or platform located between the chairs and below the seats, and 65 means for securing the platform to the legs

at different heights in relation to the seats of the chairs and independently of them and of the backs.

2. In a swing, the combination with swinging chairs each having a back, upright members or legs and a seat which is stationary in relation to said legs, of a plurality of cross-bars connecting the legs of each chair, and disposed one above the other below the seat thereof, and a foot-rest or platform, serving 75 for both chairs, having notched side bars adapted to hook over any of the cross-bars, whereby the platform can be adjusted vertically in relation to both chairs and independently of the backs or seats thereof. 80

3. In a swing, the combination with a chair having a fixed seat and legs, of a back therefor which has a slidable pivotal connection with the chair whereby it can be shifted as an entirety in relation to the seat and brought 85 to any degree of inclination, said back having downwardly-extending bars or members, notched bars on the chair with which the downwardly-extending bars can be engaged at different points, and means for supporting 90 the chair.

4. In a swing, the combination with a base-frame, of arched frames rising from the base-frame and arranged in pairs at the ends of the latter, chairs located between the respective pairs of arched frames and comprising 95 fixed legs and seats and adjustable backs, and pairs of links at each side of the chair which are pivoted at their lower ends to the chairs and being pivoted at their upper ends to the upper portions of the arched frames, at different points thereof, and a foot-rest or platform extending between said chairs whereby they are adapted to move simultaneously. 100

5. In a swing, the combination with a base and seats, of supporting-frames arising therefrom, of chairs each comprising a seat and legs, a back having a slidable pivotal connection with the chairs whereby it can be adjusted as an entirety in relation to the seat, said 105 back having downwardly-extending bars or members, notched bars on the chair with which the downwardly-extending bars can be engaged at different points to vary the inclination of the back, links hanging the chairs 115 from the frames on the base, whereby the chairs can swing between the legs of the respective chairs and arranged one above the other below the seats, and a platform or foot-rest having notched side pieces adapted to 120 engage with the different cross-bars and extending between the chairs.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

JAMES E. FRY.

Witnesses:

HARRY HODGIN,  
FRANK FRY.