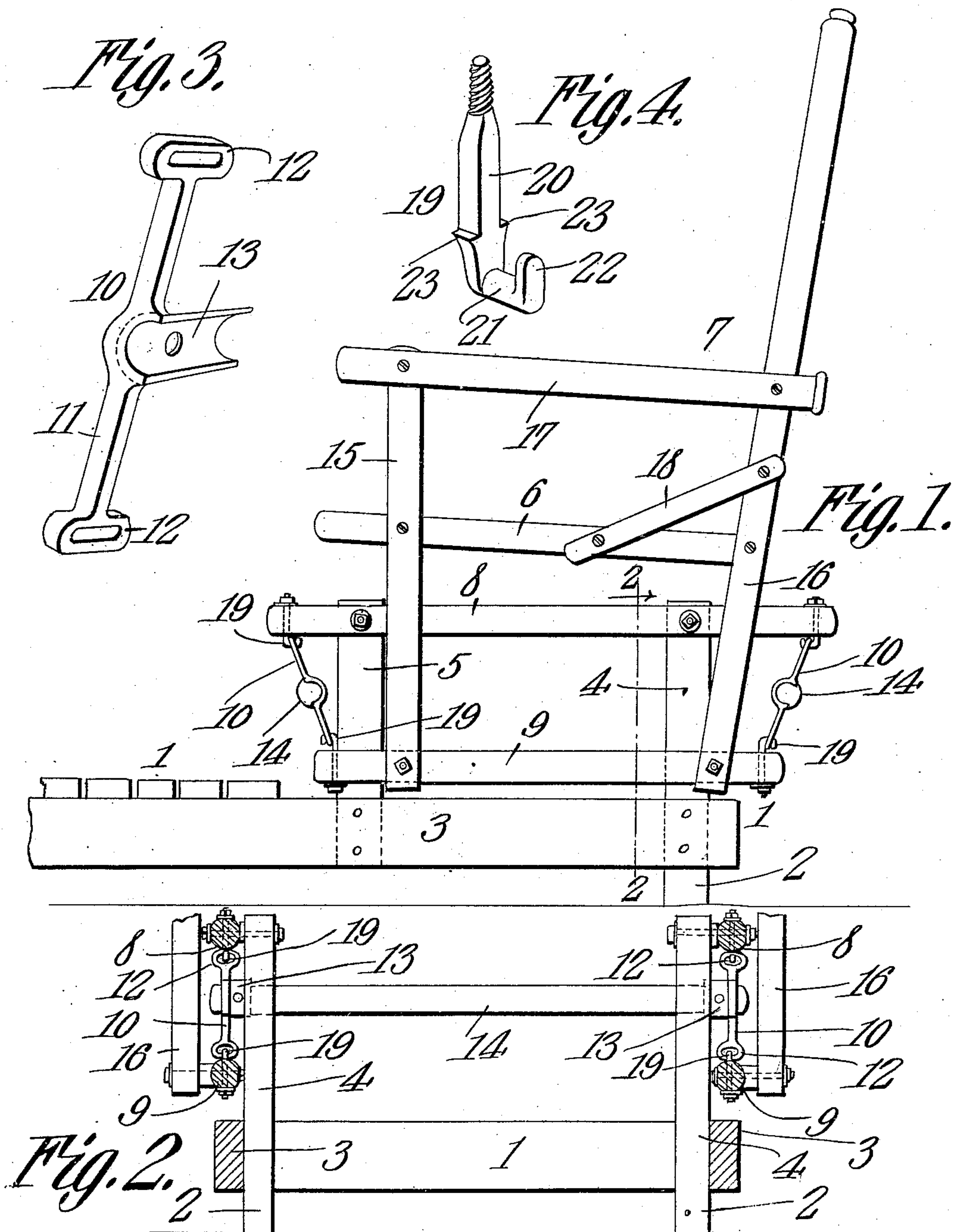


W. GERLACH.
SWINGING CHAIR.
APPLICATION FILED SEPT. 5, 1908.

929,207.

Patented July 27, 1909.



Witnesses

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UNITED STATES PATENT OFFICE.

WILLIAM GERLACH, OF SHARPSBURG, IOWA.

SWINGING CHAIR.

No. 929,207.

Specification of Letters Patent.

Patented July 27, 1909.

Application filed September 5, 1908. Serial No. 451,814.

To all whom it may concern:

Be it known that I, WILLIAM GERLACH, a citizen of the United States, residing at Sharpsburg, in the county of Taylor and State of Iowa, have invented a new and useful Swinging Chair, of which the following is a specification.

This invention relates to chairs of that type which are mounted on a fixed base and adapted to be suspended therefrom and be swung or oscillated by the feet resting on the platform or on the ground.

The object of this invention is to produce a chair of the type described which shall be of simple construction, easy to assemble, economically made and when broken quick to repair.

With these and other objects in view the invention consists of the novel construction, combination and arrangement of parts hereinafter described, claimed and illustrated in the accompanying drawing, in which:

Figure 1 is an elevation of the improved chair as viewed from one side. Fig. 2 a cross sectional view on the line 2—2 of Fig. 1 looking rearwardly. Fig. 3 a perspective view of one of the suspending links or hangers, and Fig. 4 a similar view of one of the bracket bolts for supporting said links.

Like reference characters are used for the same parts in all the figures.

In the drawing, the numeral 1 indicates a rigid frame preferably rectangular in form and supported a short distance above a floor or lawn by feet 2. The frame may be of sufficient length for one chair or it may be made long enough for two.

Rigidly bolted to the inner face of each longitudinal side member 3 of the frame 1 are two vertical posts 4 and 5; the former posts 4 are fitted in the corners of the frame and extend below the same as feet 2. The posts 5 are placed in advance of the posts 4, a distance nearly equal to the length of the chair from front to rear and in height the four posts are the same from the top of the frame 1 and extend upwardly, not quite as high as the seat 6 of the chair 7. The posts 4 and 5 on each side of the frame 1 are connected together by a longitudinal bar 8 bolted on the outside of the posts at the top and project both forwardly and rearwardly thereof. Below each horizontal bar 8 is a shorter bar 9 just above the frame sides 3 but not connected thereto, it being supported by hangers 10 extending downwardly to-

ward each other and swingingly connected to the outer ends of the bars 8 and 9.

The swinging hangers 10, shown more clearly in Fig. 3, each consists of a metal arm 11 having an elongated transverse eye 12 at each end extending at right angles to the longitudinal center of the hanger. Midway the length of each arm 10 is a laterally disposed hub 13 of semi-circular shape, said hubs being designed to extend inwardly and embrace the ends of two arms 14 one in front, and the other in rear of the chair. The lower ends of the front and rear legs 15 and 16 of the chair are bolted to the lower swinging bar 9 and extend upwardly, the front legs as high as the arm rest 17 and the rear legs as high as the back of the chair. The arm rests are bolted on the outside of the front and rear legs and the seat 6 fastened to the inside of the same. A brace 18 extends from the seat to the rear leg on each side of the chair to steady the parts.

The form and construction of the chair may be changed to any extent desired provided the legs are fastened to the bottom bars 9.

The hangers 10 are connected to the bars 8 and 9 by means of hook supports 19 consisting each of a square shank 20 having a threaded stem on one end for the fastening nut, a circular stem 21 projecting outwardly from the other end of the shank and perpendicular thereto, and a short lip 22 at the end of the stem parallel to the shank. Shoulders 23 project from two opposite sides of the shanks a short distance above the stems 21, and bear against the bars to which they are fastened and prevent the stems 21 being drawn too high. When assembled the stems engage the eyes in the ends of the hangers and uphold all the weight of the chair and its contents.

It is to be noted that the hangers 10, when the chair is in normal position as in Fig. 1, are inclined downwardly toward each other. If the chair be now moved or rocked forwardly, the front of the seat 6 as it moves forwardly also drops because the center of oscillation, the upper end of the forward hangers 10, is in advance of the lower end, and that the rear of the seat rises because the lower end of the rear hangers are in advance of the upper ones. When the chair moves rearward, the reverse operation follows, hence it will be seen that the peculiar

motion of a rocking chair is obtained by this construction.

What is claimed is:—

5 A swinging chair comprising a stationary platform, fixed posts extending upwardly therefrom, parallel longitudinal bars carried by the posts and parallel with the platform, a chair seat, legs fixed with relation to the seat and extending downwardly there-
10 from and across the outer faces of the longitudinal bars, bars connecting the lower ends of the legs and extending forwardly and rearwardly across the outer faces of the posts, and downwardly converging hangers
15 of the same length connecting the end portions of the said bars with the end portions of the bars on the posts, each hanger comprising an arm, and a semi-cylindrical hub

portion extending laterally therefrom, said arms having transversely extending elongated eyes in the end portions thereof and extending at right angles to the longitudinal center of the arms, the upper and lower ends of said hangers being disposed in parallel planes when the hangers are in their normal positions, and cross-bars secured at their ends within the hubs of the hangers.

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

WILLIAM GERLACH.

Witnesses:

W. L. EDWARDS,
DAN EPPELSHEIMER.