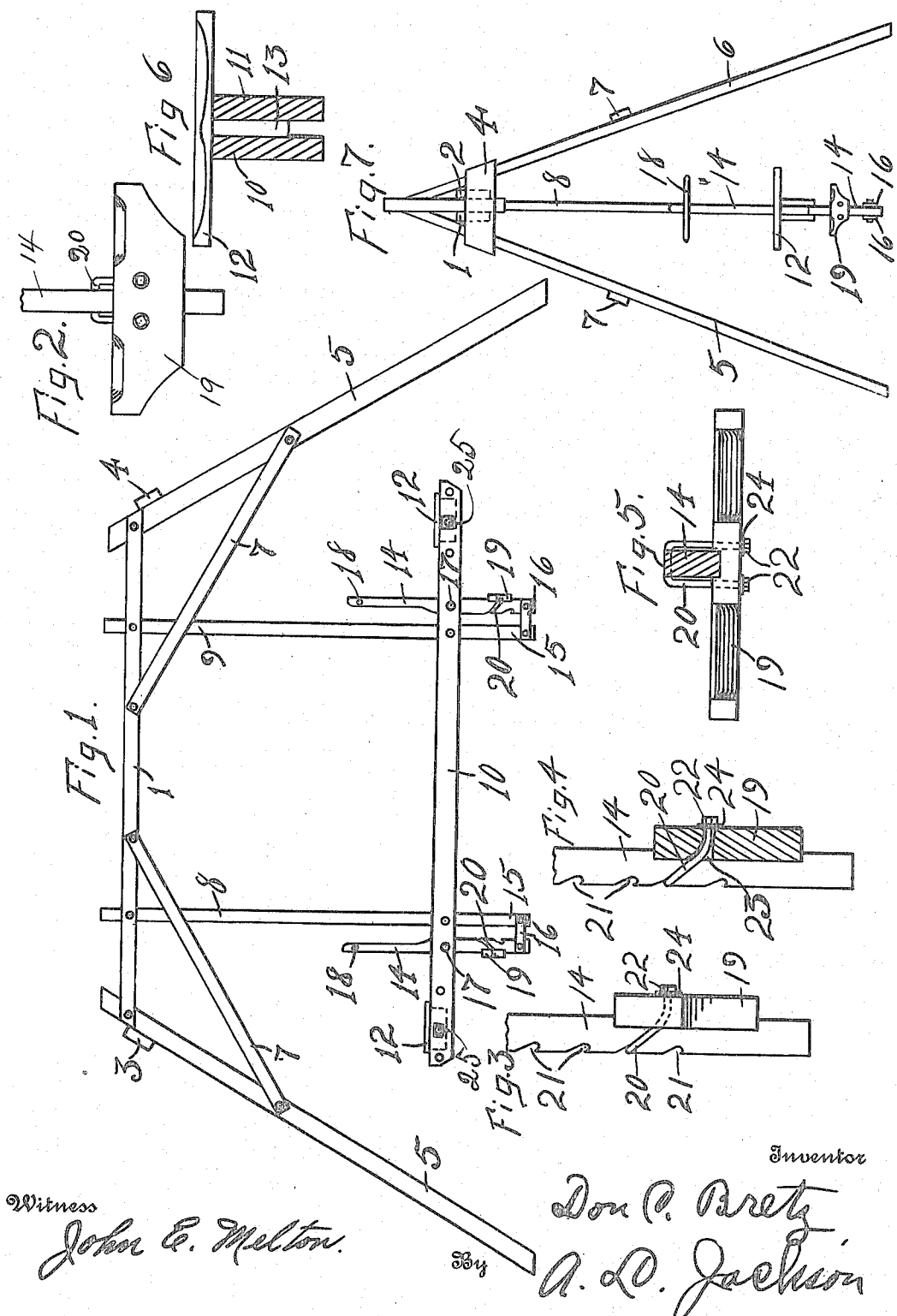
D. C. BRETZ.

SWING.

APPLICATION FILED JULY 31, 1916.

1,271,126.

Patented July 2, 1918.



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DON C. BRETZ, OF FORT WORTH, TEXAS.

SWING.

1,271,126. Specification of Letters Patent. Patented July 2, 1918.

Application filed July 31, 1916. Serial No. 112,288.

To all whom it may concern:

Be it known that I, DON C. BRETZ, a citizen of the United States, residing at Fort Worth, in the county of Tarrant and State of Texas, have invented certain new and useful Improvements in Swings, of which the following is a specification.

My invention relates to swings and particularly to swings commonly known as lawn swings, and the object is to provide a simple and inexpensive swing which will be strong and durable. Another object is to provide a swing which will bring into action all the muscles of the body in operating the swing. Other objects and advantages will be fully explained in the following description and the invention will be more particularly pointed out in the claims.

Reference is had to the accompanying drawings which form a part of this application.

Figure 1 is a side elevation of the swing. Fig. 2 is a face view of the foot rest. Fig. 3 is an edge view of the same, showing the application to the operating lever. Fig. 4 is a vertical section of the foot piece. Fig. 5 is a plan view of the same, showing a horizontal section of the operating lever. Fig. 6 is a front view of the seat. Fig. 7 is an end elevation of the swing.

Similar characters of reference are used to indicate the same parts throughout the several views.

The improved swing is provided with a frame composed of the beams 1 and 2, crossbars 3 and 4, and supports 5 and 6. Braces 7 are attached to the supports 5 and 6 and to beams 1 and 2 for making the frame rigid. Swing supports 8 and 9 are pivotally mounted between the beams 1 and 2 and connected thereto. Two bars 10 and 11 are pivotally connected to the swing supports 8 and 9. Seats 12 are attached to the bars 10 and 11 and made rigid therewith by a vertically disposed block 13. Operating levers 14 are pivotally connected with the bars 10 and 11 by fulcrum bolts 17. The swing supports 8 and 9 have downward extensions 15. Levers 14 are operatively connected to the extensions 15 by link bars 16 which are pivotally connected to the levers and to the extensions. The levers 14 are provided with handles 18 and foot pieces 19. The foot pieces or rests 19 are adjustably connected to the levers 14 by U-bolts 20 which engage recesses 21 in the levers 14 and extend through the foot rests and are secured therein by nuts 22. The openings 23 in the foot rests 19 are enlarged to permit sufficient of the bolts 20 to effect adjustments of the U-bolts and the ends of the U-bolts are bent horizontally so that washers 24 will lie flat against the foot rests 19.

In operation a person holds the handle 18 in his hands and rests his feet on the support 19 so that as he pulls with his hands, he pushes with his feet; and as he pushes with his hands, he will pull with his feet. The U-bolt 20 can be adjusted to any one of the recesses 21, and this can be done by simply lifting the foot rests to loosen the U-bolts from the lever 14. When the foot rest is let down, it will be locked in place by gravity. The foot rest 19 is braced against lateral movement relative to the lever 14 by making a groove in the foot rest so that the lever will stand in the groove. The bars 10 and 11 have pluralities of openings 17 so that the seats can be held at different adjustments by bolts 25.

What I claim, is,—

1. A swing comprising a supporting frame and hangers pivotally connected thereto, seat supporting beams pivotally mounted on said hangers and having extensions beyond said hangers, seats mounted on said extensions, said hangers having downward extensions, levers fulcrumed on said beams, link bars pivotally connected to said levers and to said downward extensions, and foot rests on said levers.

2. A swing comprising a frame and hangers pivotally connected thereto, a pair of seat carrying beams pivotally connected to said hangers, said hangers having downward extensions, seats mounted on said beams and each seat having an attaching member projecting down between said beams, bolts securing said attaching member between said beams, a lever fulcrumed in between said beams, link bars pivotally connected to said levers and to said downward extensions, foot rests, and means for connecting said foot rests to said levers.

3. A swing comprising a supporting frame and hangers pivotally connected thereto, seat supporting beams pivotally mounted on said hangers and having extensions beyond said hangers, seats mounted on said extensions, said hangers having downward extensions, means for operating the swing comprising levers fulcrumed on said beams, and link bars pivotally connected to said levers and to said downward extensions, and foot rests carried by said operating means.

In testimony whereof I set my hand, this 26th day of July, 1916.

DON C. BRETZ.