

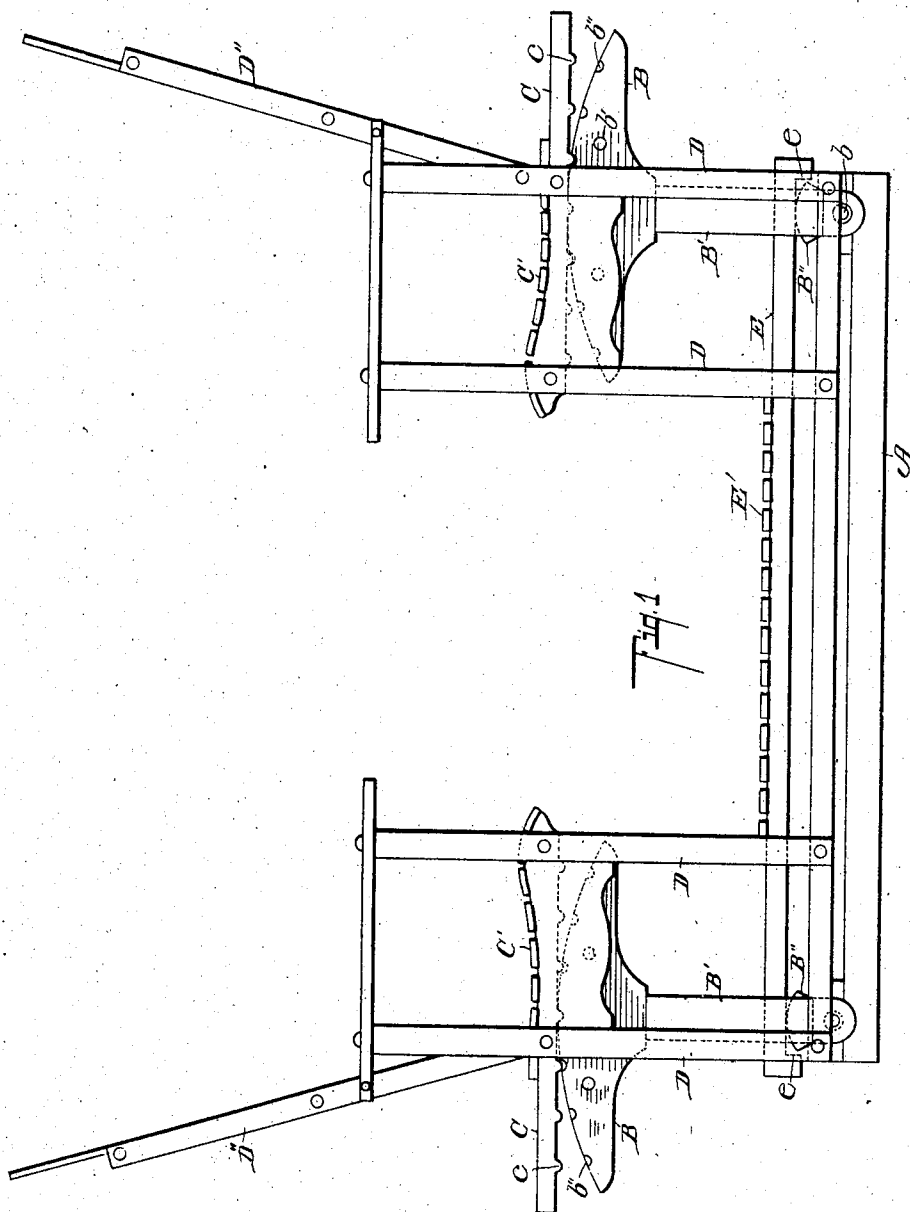
No. 834,670.

PATENTED OCT. 30, 1906.

A. HARTZLER.
SWING.

APPLICATION FILED FEB. 19, 1906.

2 SHEETS—SHEET 1.



Witnesses.

Lulu Greenfield
Annie J. Elber

Inventor,

Arnon Hartzler
By *Chapman & Earl*
Att'ys

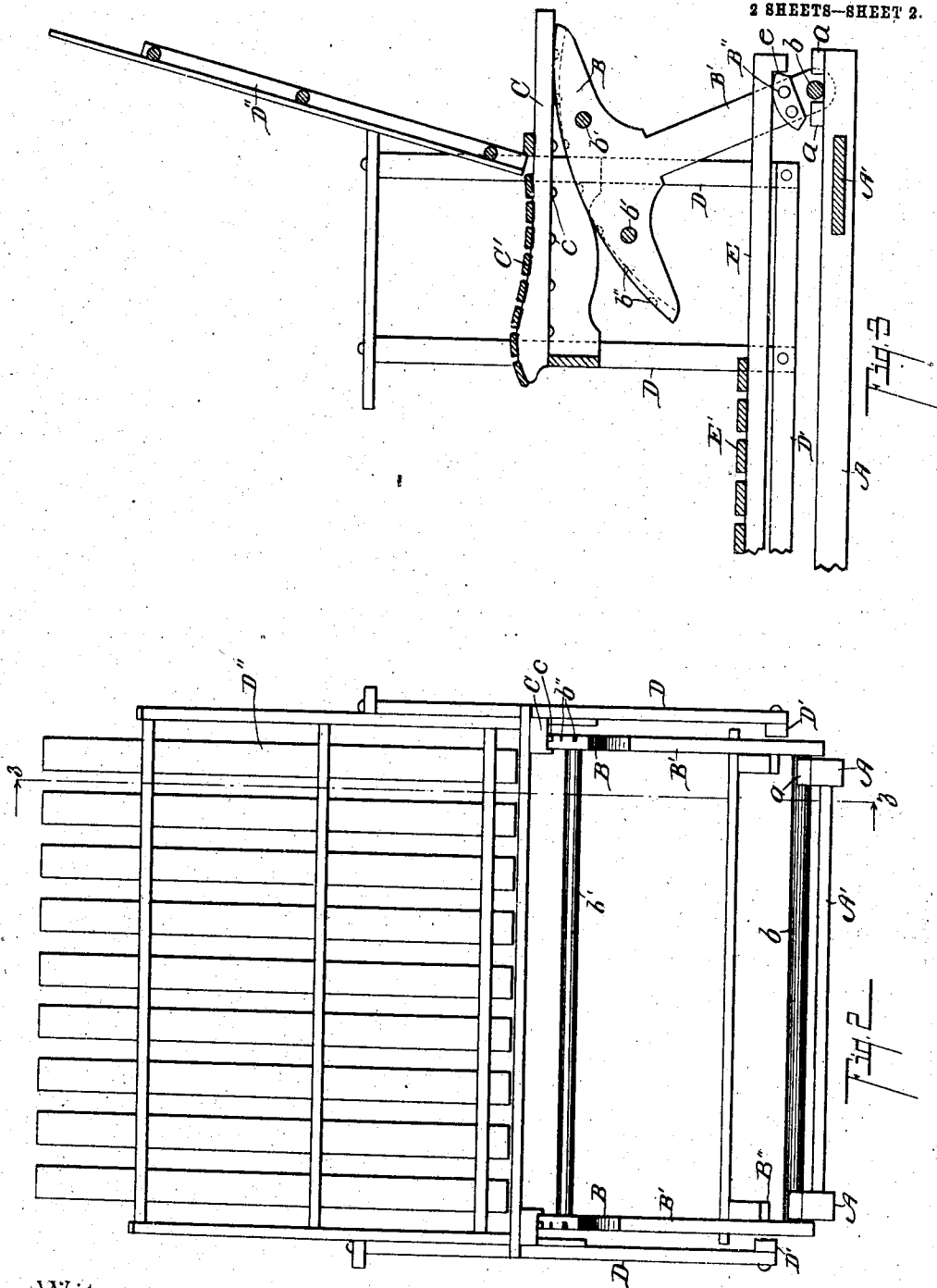
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SWING.

APPLICATION FILED FEB. 19, 1908.

2 SHEETS—SHEET 2.



Witnesses:

Luke Greenfield
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Inventor,

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UNITED STATES PATENT OFFICE.

AARON HARTZLER, OF GOSHEN, INDIANA.

SWING.

No. 834,670.

Specification of Letters Patent.

Patented Oct. 30, 1906.

Application filed February 19, 1906. Serial No. 301,849.

To all whom it may concern:

Be it known that I, AARON HARTZLER, a citizen of the United States, residing at Goshen, county of Elkhart, State of Indiana, have invented certain new and useful Improvements in Swings, of which the following is a specification.

This invention relates to improvements in swings. It relates particularly to that class of swings in which the seats move back and forth without being suspended.

The main object of this invention is to provide an improved swing having a gliding movement which is simple and economical in structure and easy to operate.

Further objects and objects relating to structural details will definitely appear from the detailed description to follow.

Figure 1 is a side elevation of my improved swing. Fig. 2 is an end elevation thereof. Fig. 3 is a detail vertical section taken on a line corresponding to line 3 3 of Fig. 2 looking in the direction of the little arrows at the ends of the section-lines.

In the drawings similar letters of reference refer to similar parts throughout the several views.

The base of my improved swing preferably consists of the side rails A, secured together and retained in proper relation to each other by cross-pieces A'.

The seats C' are carried by a frame consisting of the side bars D', having upwardly-projecting standards D at each end arranged in pairs. These standards support the seats C', which preferably consist of suitable slats secured upon the tracks or ways C. These tracks or ways rest upon the inverted rockers B. These rockers are connected together in pairs by suitable cross-rods b b'. The rockers are carried by the standards B', and the cross-rod b is located at the lower end of the same and rests upon the side rail A of the base, forming bearing-pins therefor. Stops a are provided to retain the bearing-pins in proper position upon the base.

The foot-rest preferably consists of suitable side pieces E, upon which the slats E' are arranged. The foot-rest is carried by the curved blocks B'', which are secured upon the standards B'. The foot-rest side pieces are provided with downwardly-projecting stops e at each end to keep the same in proper position upon the blocks B''. These are preferably arcs of a circle the center of which lies in the axis of the bearing-rod b.

To prevent the ways or tracks C sliding upon the rockers, they are provided with downwardly-projecting teeth c, and the rockers B are provided with corresponding teeth b'', so that the parts are kept properly centered. These teeth are preferably arranged only at intervals along the track, being spaced so that at least one will be in engagement at all times. These teeth b'' are preferably on one side only of the rockers, as clearly appears from Fig. 2, so that they also serve to keep the rockers in their proper lateral position. The seats are provided with suitable backs, as D''. With the parts thus arranged the foot-rest moves in the same direction as the seats. The swing is preferably operated by the user pushing upon the platform with his foot. The foot-platform is supported on standards above the pivot-pins thereof, so that it moves in the same direction as the seats. The platform is so arranged that a considerable movement of the seats is secured by a comparatively slight movement of the foot-rest. The weight upon the foot-rest tends to return the parts to their central or initial position. The weight upon the seats also tends to return the parts to their central or normal position.

I have illustrated and described my improved swing in detail in the form preferred by me on account of its structural simplicity and economy. I am, however, aware that it is capable of considerable variation in structural details without departing from my invention.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. In a structure of the class described, the combination of a suitable base; a seat-carrying frame; inverted rockers arranged in pairs; standards by which said rockers are carried; bearing-pins for said standards arranged on said base; stops on said base to limit the movement of said bearing-pins thereon; ways on said frame adapted to travel on said rockers; a foot platform or rest; and curved supports on which said platform rests carried by said standards arranged above the bearings thereof, for the purpose specified.

2. In a structure of the class described, the combination of a suitable base; a seat-carrying frame; inverted rockers arranged in pairs; standards by which said rockers are carried; bearing-pins for said standards arranged on said base; stops on said base to limit the

movement of said bearing-pins thereon; ways on said frame adapted to travel on said rockers; a foot rest or platform; and supports therefor arranged on said standards above the bearing-pins thereof; for the purpose specified.

3. In a structure of the class described, the combination of a suitable base; a seat-carrying frame; inverted rockers arranged in pairs; standards by which said rockers are carried; bearing-pins for said standards arranged on said base; ways on said frame adapted to travel on said rockers; a foot platform or rest; and curved supports on which said platform rests carried by said standards arranged above the bearings thereof, for the purpose specified.

4. In a structure of the class described, the combination of a suitable base; a seat-carrying frame; inverted rockers arranged in pairs; standards by which said rockers are carried; bearing-pins for said standards arranged on said base; ways on said frame adapted to travel on said rockers; a foot rest or platform; and supports therefor arranged on said standards above the bearing-pins thereof, for the purpose specified.

5. In a structure of the class described, the combination of a suitable base; a seat-carrying frame; inverted rockers arranged in pairs; bearing-pins therefor; stops on said base to limit the movement of said bearing-pins thereon; ways on said frame adapted to travel on said rockers; a foot platform or rest; and curved supports on which said platform rests carried by said rockers arranged above the bearings thereof, for the purpose specified.

6. In a structure of the class described, the combination of a suitable base; a seat-carrying frame; inverted rockers arranged in pairs; bearing-pins therefor; stops on said base to limit the movement of said bearing-pins thereon; ways on said frame adapted to travel on said rockers; a foot rest or platform; and supports therefor arranged on said stand-

ards above the bearing-pins thereof; for the purpose specified.

7. In a structure of the class described, the combination of a suitable base; a seat-carrying frame; inverted rockers arranged in pairs; bearing-pins therefor; ways on said frame adapted to travel on said rockers; a foot platform or rest; and curved supports on which said platform rests carried by said rockers arranged above the bearings thereof, for the purpose specified.

8. In a structure of the class described, the combination of a suitable base; a seat-carrying frame; inverted rockers arranged in pairs; bearing-pins therefor; ways on said frame adapted to travel on said rockers; a foot rest or platform; and supports therefor arranged on said standards above the bearing-pins thereof, for the purpose specified.

9. In a structure of the class described, the combination of a suitable base; a seat-carrying frame; inverted rockers arranged in pairs; bearing-pins therefor; ways on said seat-carrying frame adapted to travel on said rockers; a foot rest or platform; and curved bearing-blocks B'' on which said platform is arranged, carried by said rockers, for the purpose specified.

10. In a structure of the class described, the combination of a suitable base; a seat-carrying frame; inverted rockers arranged in pairs; standards by which said rockers are carried; bearing-pins for said standards arranged on said base; ways on said seat-carrying frame adapted to travel on said rockers; a foot rest or platform; and convex bearing-blocks B'' on which said platform is arranged, carried by said standards, for the purpose specified.

In witness whereof I have hereunto set my hand and seal in the presence of two witnesses.

AARON HARTZLER. [L. s.]

Witnesses:

S. S. WHISLER,
A. C. HEATH.