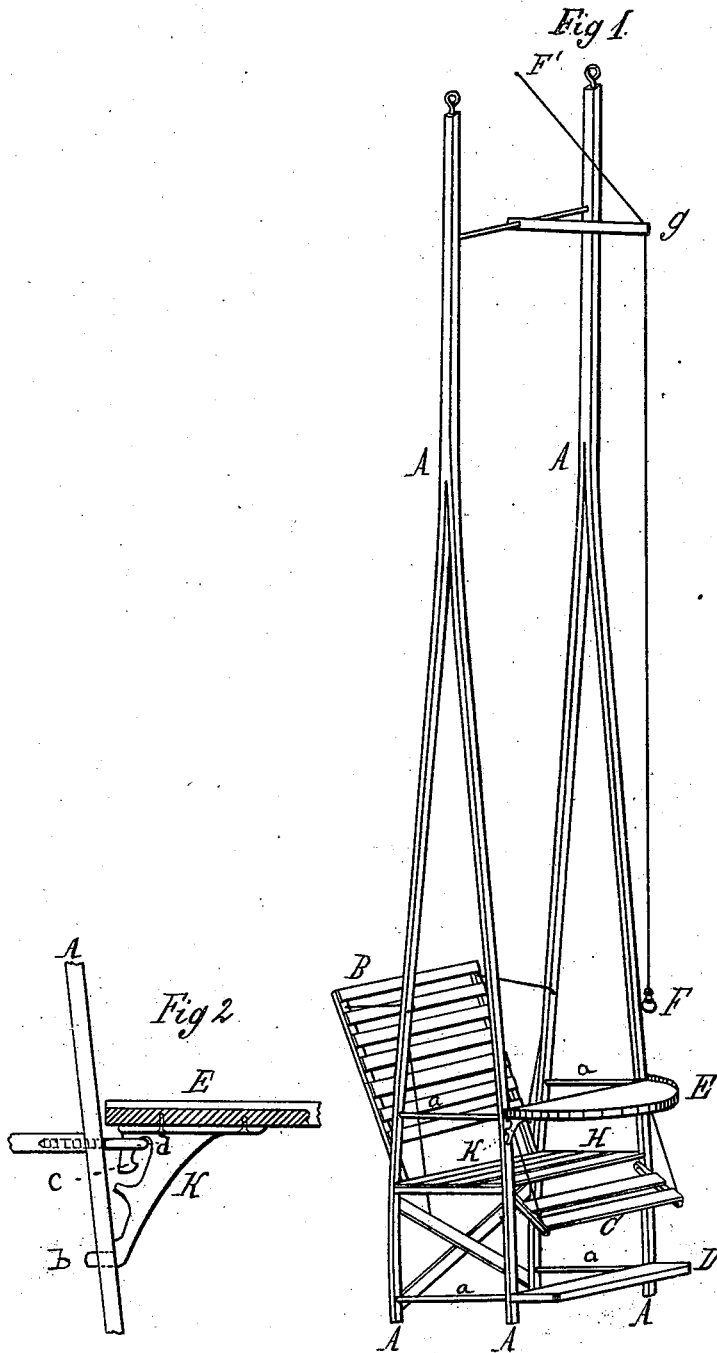


W. S. TOTHILL.  
Swing.

No. 206,406.

Patented July 30, 1878.



Witnesses:  
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# UNITED STATES PATENT OFFICE.

WILLIAM S. TOTHILL, OF CHICAGO, ILLINOIS.

## IMPROVEMENT IN SWINGS.

Specification forming part of Letters Patent No. **206,406**, dated July 30, 1878; application filed November 12, 1877.

*To all whom it may concern:*

Be it known that I, WILLIAM S. TOTHILL, of the city of Chicago, in the State of Illinois, have invented certain new and useful Improvements in Swings; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, which form a part of this specification.

The object of my invention is to construct a swing of wood in the simplest and yet strongest manner, thereby being enabled to manufacture it cheap. This I accomplish by sawing apart the two vertical square bar-supports to about three-quarters of their length, leaving the upper quarter solid, and by fitting in between the lower ends, which are spread asunder, three round stays, one of which supports the foot-board, another the seat, and one forms a safeguard on each side, preventing the child from falling out sidewise. The vertical supports have screw-eyes on the top, which hang up to a pair of hooks fastened in the ceiling or doorway. They are stiffened together by diagonal flat stays in the back, as shown in Figure 1.

The back of the seat is formed by a light and adjustable frame, which can be laid down, or is held up by strings fastened to the supports. A similar arrangement is in front under the seat.

The swing is intended to form and to be used as a cradle by laying the back down and drawing the front up. The back-frame can be nailed directly to the vertical supports, forming then a stiff back. A small table in front is securely hooked on by means of two cast-iron brackets, as shown in Fig. 2. The upper hook hangs in a screw-eye, while the lower hook enters a hole in the wood, the arrangement being so that the table cannot accidentally unhook itself.

In the annexed drawing, Fig. 1 is a perspective view of the swing at rest.

A A are the vertical supports; B, the adjustable back; C, the adjustable front; D, the foot-board; H, the seat, which is removable; K, the cast-iron bracket, supporting the table E.

The swing is propelled by the child itself by means of the string F and lever g. The

upper end of the string is fastened to a hook in the ceiling or doorway. By pulling the lower end vertically the swing is pressed backward by the lever g.

The split bars A are spread and held apart by the rods a and the seat H. The back B is so attached that it may be adjusted to any position. The front C is also hinged to the frame or seat, so that it can be thrown up to form a guard. The foot board or rest D is permanently or separately attached to the frame, as shown. The arm g is attached to the cross-rod that connects the upper ends of the bars A, and in its outer end is a groove or sheave to keep the cord in place. The cord F is not fastened to the frame, but passes through the outer end of the bar or lever g, and is attached at F' to the ceiling or doorway where the swing is suspended, and by attaching the upper end of the cord separately the point of attachment can be carried back of the swing, so as to give more power and a farther movement to the swing before the cord reaches a straight line.

The bracket K is preferably made of cast-iron. It is provided at the top with a flange for attaching the board or table E, and at the back with a hook, c, engaging with the eyebolt or staple d, and with a pin, b, that enters a suitable opening in the bar A, as shown enlarged at Fig. 2.

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

1. The split bars A A, in combination with the seat H and rods a, substantially as specified.
2. The improved swing herein described, consisting of the bars A, seat H, back and front B C, foot-rest D, arm g, and cord F, all constructed and arranged to operate substantially as specified.
3. The detachable bracket K, having the projection b and hook c, in combination with the eyebolt d and side bar A, substantially as and for the purpose specified.

WILLIAM S. TOTHILL.

Witnesses:

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