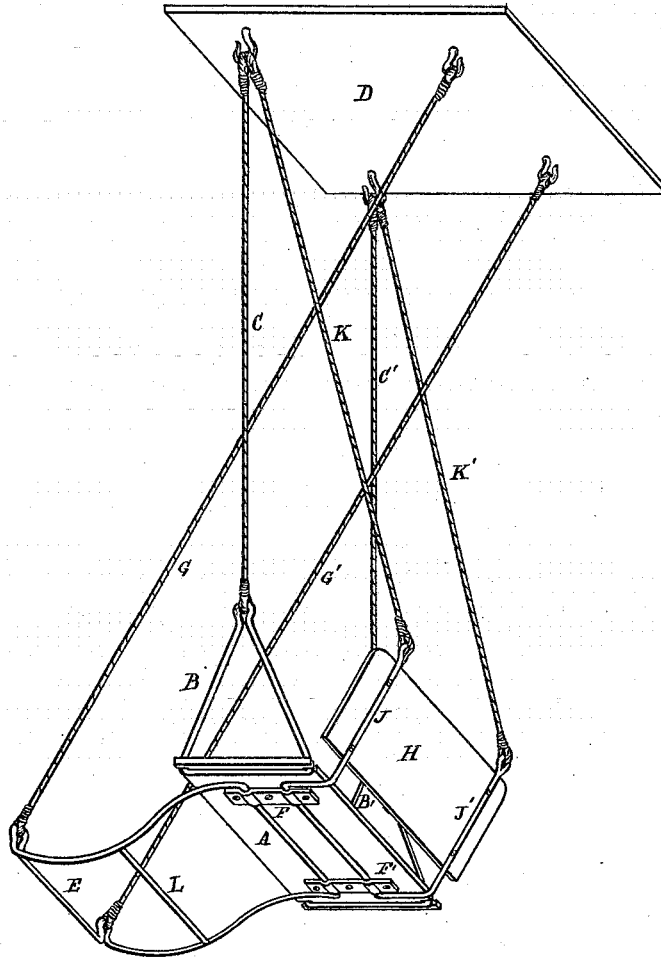


W. P. ROGERS.

SWING.

No. 185,353.

Patented Dec. 12, 1876.



Witnesses:

R. W. Sadler
J. A. Kohler

Inventor:

William P. Rogers,
by Humphrey & Stuart
his attys.

UNITED STATES PATENT OFFICE.

WILLIAM P. ROGERS, OF FITCHBURG, MASSACHUSETTS.

IMPROVEMENT IN SWINGS.

Specification forming part of Letters Patent No. **185,353**, dated December 12, 1876; application filed October 21, 1876.

To all whom it may concern:

Be it known that I, WILLIAM P. ROGERS, of Fitchburg, in the county of Worcester and State of Massachusetts, have invented an Improvement in Swings, of which the following is a specification:

My invention has relation to, and is an improvement upon, an improved swing for which Letters Patent of the United States No. 170,900 were granted to me October 23, 1875; and it consists in applying to said swing a back hinged to the swing-seat, and supported by two ropes extending from its top to the point of suspension of the swing.

My invention will be readily understood by reference to the accompanying drawing, which is a perspective view of my improved swing, embodying the herein-described improvements, looking from below the level of the swing-seat.

The swing, as described in my former application, consists of the seat A, uprights B B', and foot-rest E. The seat A is a plain board of suitable size. The uprights B B' are made of iron rod, bent in the form shown, the ends welded together and held in place on the board A by fitting into shallow notches on the edges near the end thereof. The foot-rest is also of iron rod, bent in the form shown, the ends welded, and hinged to the board A by the plates F F'. This body is suspended by the ropes C C' G G', attached to the ceiling D, as shown, crossing each other and attached to the uprights B B' and foot-rest E, respectively.

The swing-back, which is sought to be protected hereby, consists of a plain board, H, of suitable size, attached to the swing-seat A by being screwed to an iron rod, J J', which latter, bent in the form shown, is hinged to

the seat A, by a continuation of the plates F F'. The upper ends of this rod J J' terminate in rings, whence the ropes K K' extend to the point of suspension of the ropes C C', and support the back.

In addition to the advantage of affording a back for the person swinging, this arrangement gives greater power of self-propulsion, by enabling the person, with much less effort than would otherwise be required, to throw the weight of the body back, so as to cause a forward oscillation of the swing; while the flexible attachments, by means of the hinged rod J J' and ropes K K', avoid the danger of breaking incident to a rigid back, and permit the back to yield to the motions of the body.

The rod L extends between, and is welded or otherwise attached to, the sides of the frame E, and serves the double purpose of affording a foot-rest for children and supporting ladies' skirts while swinging.

I have heretofore referred to the seat and back as plain boards; but it is obvious they may be upholstered, at the pleasure of the owner.

I claim—

1. The combination, with the back H and seat A of a swing, of the rods or bars J J', attached to said back and pivoted to the under side of the seat, as and for the object specified.

2. The combination, with the swinging back, consisting of a board, H, ropes K K', and rods J J', of a swing, consisting of a seat, A, uprights B B', foot-rest E, and ropes C C' and G G', arranged to operate substantially as set forth.

WM. P. ROGERS.

Signed in presence of—
HENRY JACKSON,
S. W. SAWYER.