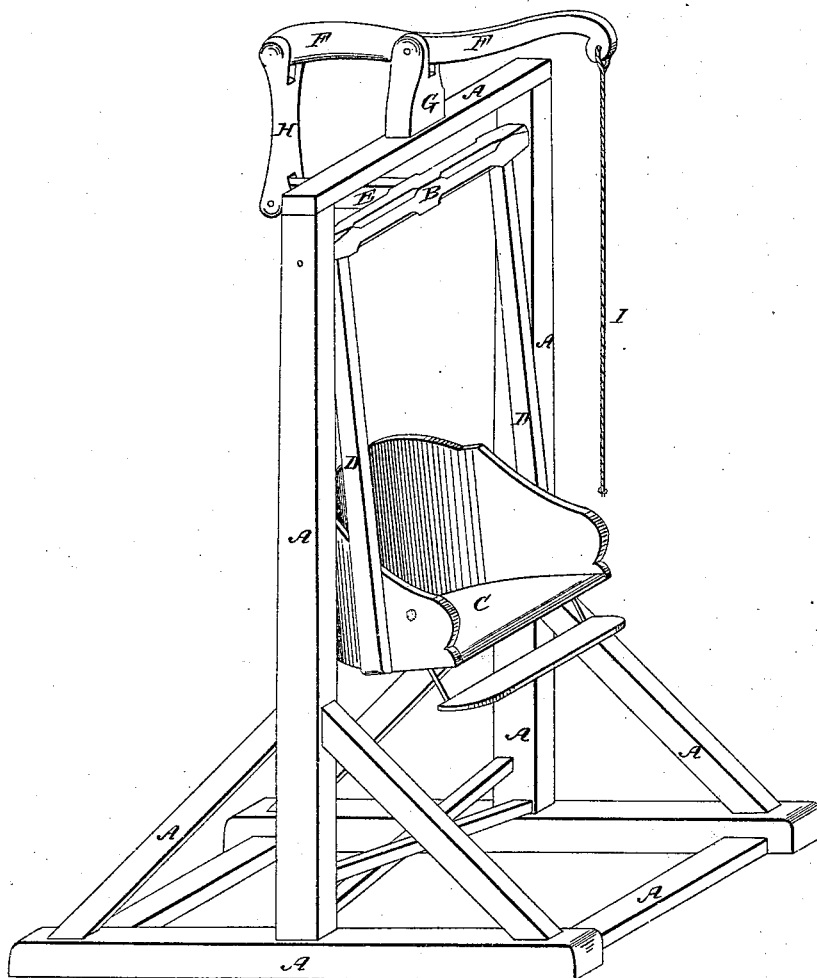


J. F. Hartman,

Swing,

N^o 53,938.

Patented Apr. 10, 1866.



Witnesses.

*Nath^l Pope-Cousin
W. C. Clayton.*

Inventor.

*John F. Hartman,
by atty*

J. C. Clayton

UNITED STATES PATENT OFFICE.

JOHN F. HARTMAN, OF FOND DU LAC, WISCONSIN.

SWING.

Specification forming part of Letters Patent No. 53,938, dated April 10, 1866.

To all whom it may concern:

Be it known that I, JOHN F. HARTMAN, of Fond du Lac, in the State of Wisconsin, have invented a new and useful Lever-Swing for the Exercise and Amusement of Children; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawing, forming a part of this specification, and to the letters of reference thereon marked.

The drawing is a perspective view of my improved invention.

My invention consists in the peculiar construction of a swing consisting of a swinging seat supported from a gallows-beam connected to a series of levers in such a manner that the child sitting in the seat can take hold of the rope hanging from the lever device, and by properly pulling and slacking the rope can swing himself more easily than in the common swing.

In the drawing, A represents a light portable gallows-frame, from which the swing depends. B is a strong bar pivoted so as to oscillate in bearings in the uprights A.

C is the swing-seat, secured to the swing-bars D D. These bars are fastened into the oscillating bar B.

E is a short strong lever, projecting about one foot to the rear of bar B, to which it is rigidly attached.

F is the long operating-lever, about two and a half feet long, pivoted near the middle to a short stud, G, upon the cross-bar A of the frame, and is always parallel to the lever E.

H is a connecting lever between the rear ends of levers E and F, and is always parallel to the stud G.

I is a rope hanging from the front end of the

operating-lever F down to and opposite the seat C.

Although the drawing shows the seat as suspended and operated from a portable frame, A, I do not intend to limit myself to the use of such a frame. The operating apparatus can be suspended from brackets secured to the ceiling. It is contemplated, however, to make and sell the combined frame and swing in a portable form.

The operation of my invention is extremely simple. The child sitting in the seat takes hold of the rope in such a way as to throw his weight forward upon the front end of lever F, depressing it and raising rear end of lever E, thereby carrying the seat backward. As the swing reaches its farthest point backward the rope is slacked and the swing goes forward. When it reaches the farthest point forward another pull of the rope assists in throwing the seat backward.

By this device a person using the swing can amuse himself more easily than in any swing known to me.

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

The combination and arrangement of bar B and swing-bars D D with the levers E, F, G, and H, and rope I, substantially as and for the purposes set forth.

In testimony that I claim the above I hereunto set my hand this 8th day of November, 1865.

JOHN F. HARTMAN.

In presence of—

GEO. W. JONES,
EDWD. H. JONES.