

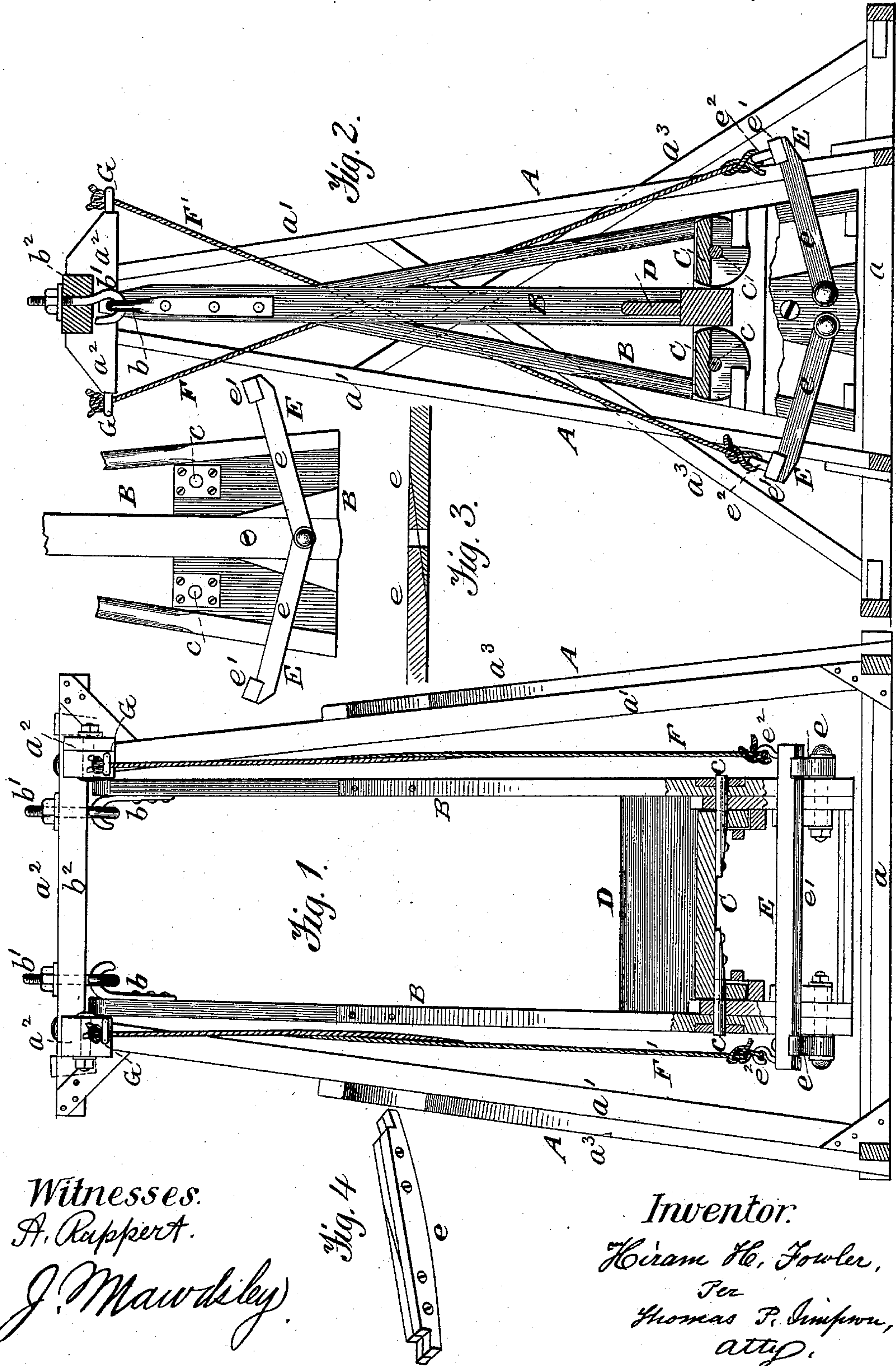
(No Model.)

H. H. FOWLER.

SWING.

No. 364,713.

Patented June 14, 1887.



Witnesses.  
A. Ruppert.  
J. Mawdsley.

Inventor.  
Hiram H. Fowler,  
Per  
Thomas P. Simpson,  
att'y.



# UNITED STATES PATENT OFFICE.

HIRAM H. FOWLER, OF MEADVILLE, PENNSYLVANIA.

## SWING.

SPECIFICATION forming part of Letters Patent No. 364,713, dated June 14, 1887.

Application filed August 14, 1886. Serial No. 210,895. (No model.)

*To all whom it may concern:*

Be it known that I, HIRAM H. FOWLER, a citizen of the United States, residing at Meadville, in the county of Crawford and State of Pennsylvania, have invented certain new and useful Improvements in Swings; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

The invention will first be described in connection with the drawings, and then pointed out in the claims.

Figure 1 of the drawings is a vertical cross-section; Fig. 2, a longitudinal vertical section, and Figs. 3 and 4 detail views.

In the drawings, A represents the frame, having a base or bed,  $a$ , from which rise the uprights  $a'$ , converging upwardly and secured to a cap-piece,  $a^2$ .

$a^3$  are crossing braces, which are fastened to the base  $a$  and uprights  $a'$ .

B is a frame suspended by hooks and eyes  $b$   $b'$  from a bar,  $b^2$ , let into the top of cap-piece  $a^2$ . The hook  $b$  is threaded and provided with a nut, by which its point may be drawn up so close to the bar  $b^2$  that the eye  $b'$  cannot possibly escape. In the pendent frame B are arranged two pivoted seats, C C, with an intermediate back, D, common to both. When the frame B is at rest, the back D is in the line of gravity, with a seat on each and opposite sides thereof. The seats are transversely pivoted at  $c$   $c$ , so that they will always be in a horizontal plane, no matter what may be the position of the frame B, the weight of the sitter making them self-adjustable, so as to enable the sitter to always preserve a firm seat, run no risk of falling out, and making it unnecessary for hand-holds.

On the frame B, and beneath the seats, I pivot the arms  $e$  of the two reversed treadles E E. To the treadle foot-piece  $e'$  is attached the eyes or loops  $e^2$ , and to the latter are fast-

ened one end of the ropes or cords F F', which cross each other and pass diagonally to the projecting eyes G on the cap-piece  $a^2$ .

The treadles may be fulcrumed to the same pivot, as shown in Figs. 3 and 4, without changing the mode of operation, which is as follows: Two persons or more occupy both seats, and it is preferable to divide the weight as evenly as possible. They operate the treadles alternately, each beginning when he is on the under side and at the highest altitude, when the other party ceases and turns back on his automatically-adjustable seat, remaining idle until the swing has reached its greatest altitude on the opposite side.

My frame A is conveniently portable, and when placed in a sunny location should be covered by a canvas secured on a superstructure of rods and extending down at the front, rear, and sides sufficiently far to protect the occupants of the swing from the sun or rain, but without excluding the air.

Having thus described all that is necessary to a full understanding of my invention, what I claim as new, and desire to protect by Letters Patent, is—

1. In a swing, the combination of a supporting-frame, A, a frame, B, pivoted to the upper part thereof and carrying pivoted seats, rearwardly-pivoted treadles, and diagonally-arranged ropes, the latter connecting the front of treadle with the opposite side of the cross-bar of the supporting-frame, as shown, and for the purpose described.

2. In a swing, the supporting-frame provided with a top cross-bar and the cap-pieces  $a^2$   $a^2$ , fastened across it, the latter being extended out on each side from the swing and provided with end rings or eyes, G G, in combination with the treadle-ropes, as and for the purpose set forth.

In testimony whereof I affix my signature in presence of two witnesses.

HIRAM H. FOWLER.

Witnesses:

A. RUPPERT,  
T. P. SIMPSON.