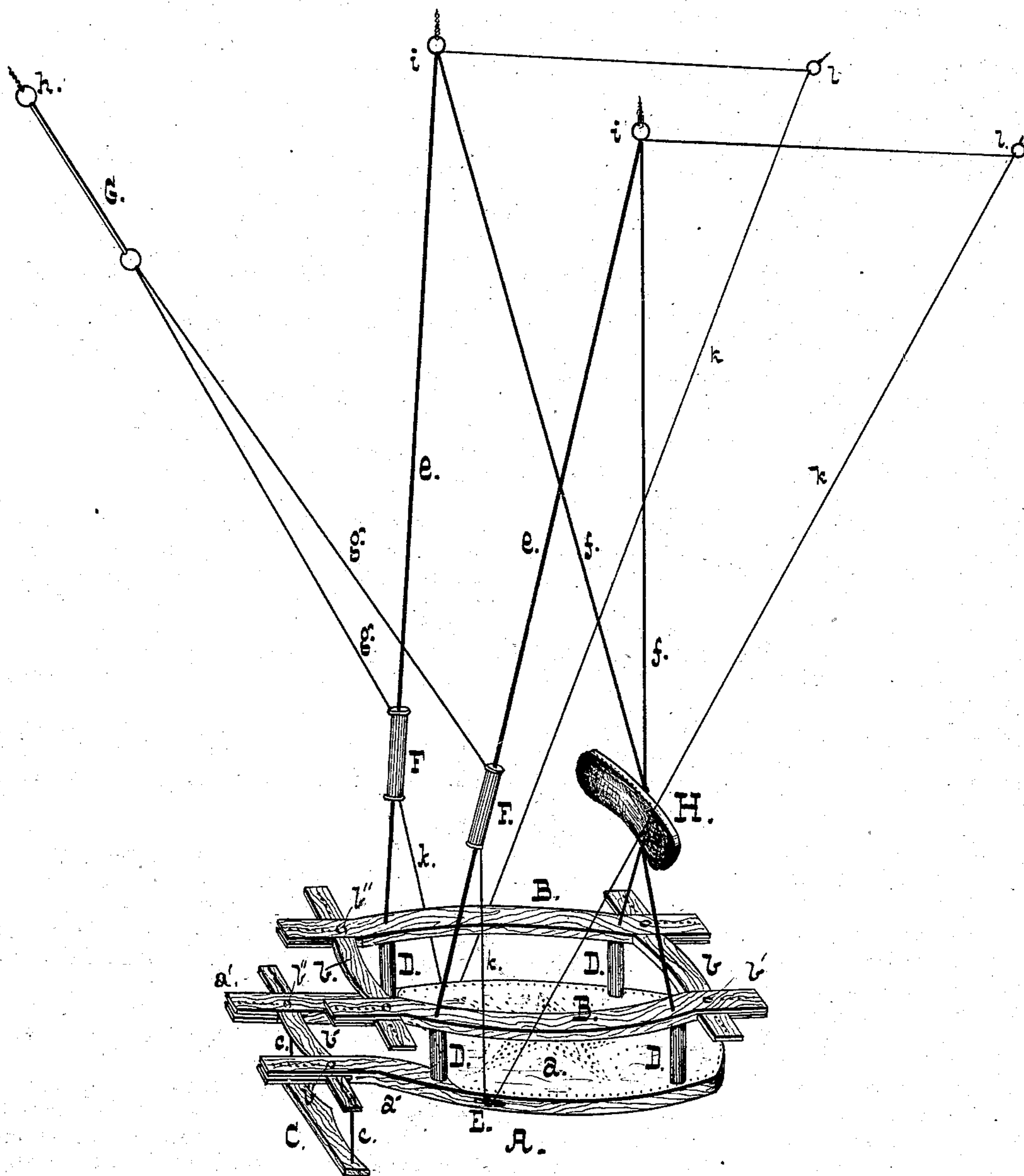


W. R. LASHORNE.
Swing.

No. 217,465.

Patented July 15, 1879.



Witnesses,
W. A. Buttram,
Dr. R. N. Barclay

Inventor
W. R. Lashorne.
by
R. A. Williams.
Attorney.

UNITED STATES PATENT OFFICE.

WILLIAM R. LASHORNE, OF BALTIMORE, MARYLAND.

IMPROVEMENT IN SWINGS.

Specification forming part of Letters Patent No. **217,465**, dated July 15, 1879; application filed May 6, 1879.

To all whom it may concern:

Be it known that I, WILLIAM R. LASHORNE, of Baltimore city, State of Maryland, have invented certain new and useful Improvements in Swings; and I hereby declare the same to be fully, clearly, and exactly described as follows, reference being had to the accompanying drawing, in which the device is illustrated in perspective view.

My present invention relates to swings designed especially for use by young children, though also adapted for use by older persons; and it consists in certain features having for their object to prevent the occupant of the swing from falling out, and to incidentally conduce to his comfort and convenience, and to facilitate the maintaining of the swing in oscillation.

In the accompanying drawing, A is the body of the swing, having a seat, *a*, properly upholstered, if for indoor use, or constructed otherwise, by preference of perforated veneer. The seat-frame is extended forward, as shown, the bars *a' a'* being slotted to admit the cross-bar *b'*, which is retained by pins *b''* passing through holes in both.

C is a foot-rest, suspended by cords *c c* from the front of the frame. B B are the arm-bars; and *b b*, respectively, the front and back bars, which are similarly secured together by pins, &c., as shown.

The suspending cords or wires *e e f f* are attached to screw-eyes *i i*, which are fastened in the ceiling or in any convenient support. These cords pass through holes in the upper frame, B *b*, through tubular supporting-rods D, and are made fast to the lower side of the seat-frame.

Upon the cords *e e* are mounted tubular handles F F, adapted to slide up and down; and from the tops of the handles lead cords *g g*, that are attached to an elastic band, G, that is also made fast by a screw-eye, *h*, to the ceiling some distance in front of the swing. To the lower ends of the handles are secured cords *k k*, that reeve through pulleys E on the sides of the seat-frame, and lead to eyes *l l* at the rear of the swing. Upon the cords *f f* is mounted a head or back rest, H, for the occupant of the swing.

Such is in general terms the construction of the device.

In operation, the occupant of the swing sets and maintains the same in motion by means of the handles F, which, being raised or lowered as the swing is making its backward or forward oscillation, impart to it, through the medium of the cords *g k*, positive motion during each stroke.

The back-rest H, besides furnishing a yielding support for the back of the occupant of the swing, assists him in maintaining the swing in motion as he moves his center of gravity backward or forward, and the rest may be slid up or down to suit his convenience.

The elastic band G is very convenient, preventing the cords from bringing up with a jerk at the ends of each oscillation.

The frame B *b* may be altered in size, as will readily be understood, and the entire device folds compactly together for transportation.

What I claim is—

1. In combination with the seat and suspending-cords, the laterally and longitudinally adjustable frame B *b*, as described.

2. In combination with the seat having projecting bars *a'*, the freely-swinging foot-rest C, as set forth.

3. In combination with a swing, a propelling-cord having an india-rubber section, G, as set forth.

4. In combination with the swing-seat and suspending-cords, having handles mounted thereon, the propelling-cord, having an elastic section and attached to the handles, as set forth.

5. In combination with a swing, a propelling-cord attached in front and behind the swing, and having handles F mounted on the cords *e*, whereby positive motion is imparted during both oscillations, as described.

6. In combination with the seat A, frame B, and cords *e f*, the cord *g*, rubber G, handles F, and pulleys E, as described.

WM. R. LASHORNE.

Witnesses:

R. D. WILLIAMS,
THOMAS H. REIP.