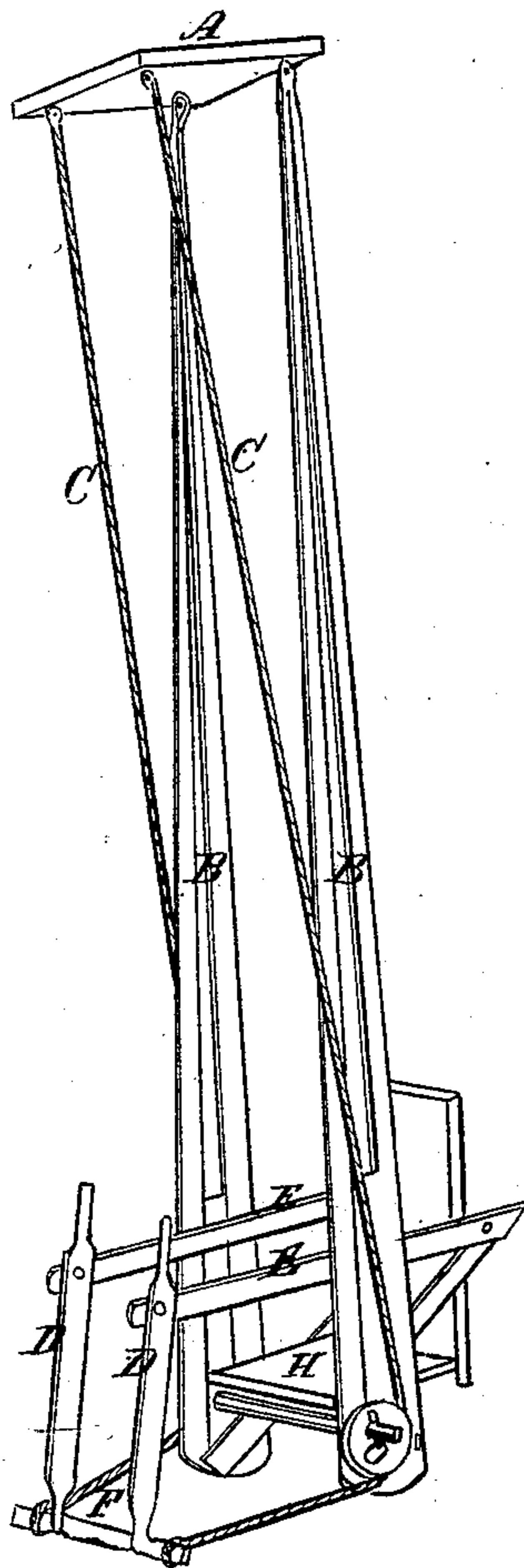


B. F. Shaffer,

Swing

Patented Oct. 20. 1868.

No. 83,216.



*Witnesses
Boston Pickering
Thos. S. Mitchell*

B. F. Shaffer

United States Patent Office.

BENJAMIN F. SHAFFER, OF DAYTON, OHIO, ASSIGNOR TO HIMSELF AND WILLIAM K. YOUNG, OF SAME PLACE.

Letters Patent No. 83,216, dated October 20, 1868.

IMPROVEMENT IN SWINGS.

The Schedule referred to in these Letters Patent and making part of the same

To all whom it may concern:

Be it known that I, BENJAMIN F. SHAFFER, of Dayton, in the county of Montgomery, in the State of Ohio, have invented a new and improved Swing; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawing, and to the letters of reference marked thereon.

The nature of my invention consists in a new arrangement of the pedal, by pivoting the arms, which sustain the foot-piece, in a vertical position.

To enable others skilled in the art to make and use my invention, I will proceed to describe its construction and operation.

The figure represents a perspective view of the swing.

A represents the manner of supporting the swing. And the swing may be suspended from a ceiling or other suitable place.

The arms B B are pivoted at the place of suspension, in the manner shown. Near the bottom of these arms, and immediately beneath the seat H, is an axle, extending from one arm to the other, and on the outer

ends of this axle are pulleys, O, over which the cords C C pass to the pedal F. Nearly at a right angle with the supporting-arms are the arms E E, to the forward ends of which are pivoted the arms D D, which support the treadle. The cords are attached at a point about one foot in advance of where the supporting-arms are pivoted.

The operation is thus: The person seated on a swing extends the limbs, the feet resting on the pedal, which causes the swing to move forward, the backward movement resulting solely from the weight of the person.

Thus a person swings himself easily, whilst the feet move nearly horizontally.

What I claim as my invention, and desire to secure by Letters Patent, is—

The permanent arms E E, the pivoted arms D D, and treadle F, constructed, arranged, and operating substantially as described, and for the purpose specified.

B. F. SHAFFER.

Witnesses:

BARTON PICKERING,
THOS. D. MITCHELL.