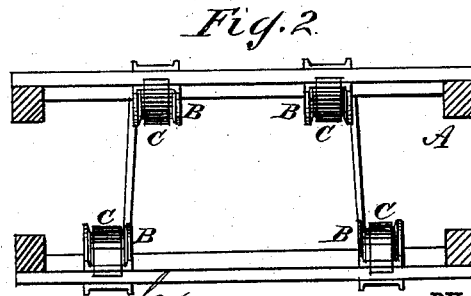
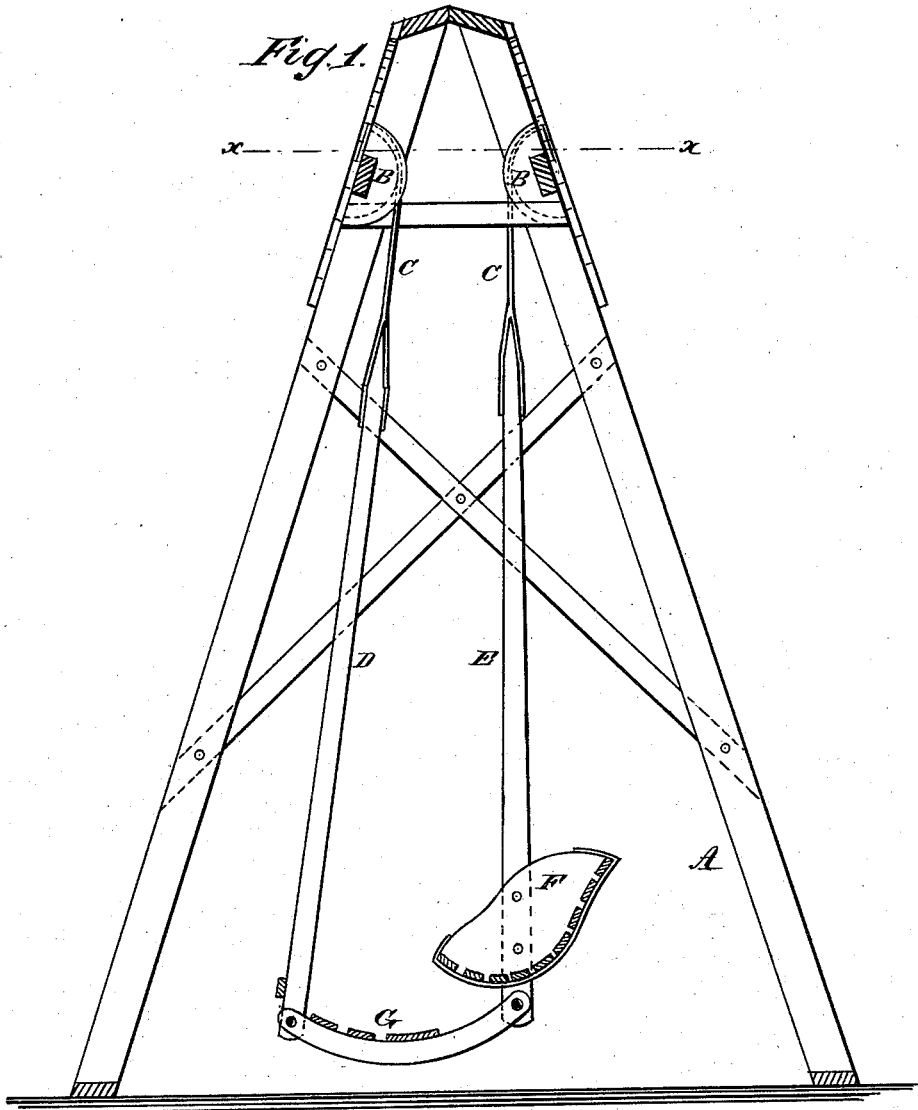


J. H. FISHER.  
Swing.

No. 198,013.

Patented Dec. 11, 1877.



WITNESSES:

*E. Wolff.*  
*J. H. Scarborough.*

INVENTOR:

*J. H. Fisher.*  
BY *Mumford.*

ATTORNEYS.

# UNITED STATES PATENT OFFICE.

JOSEPH HYDE FISHER, OF CHICAGO, ILLINOIS.

## IMPROVEMENT IN SWINGS.

Specification forming part of Letters Patent No. **198,013**, dated December 11, 1877; application filed October 12, 1877.

*To all whom it may concern:*

Be it known that I, J. HYDE FISHER, of Chicago, in the county of Cook and State of Illinois, have invented a new and Improved Swing, of which the following is a specification:

Figure 1 is a vertical section of my improved swing. Fig. 2 is a sectional plan view taken on line *x x* in Fig. 1.

Similar letters of reference indicate corresponding parts.

The invention consists in two oppositely-arranged semi-cylinders or half-pulleys, over which are placed straps or other flexible supports, by which the seat and foot-board are suspended. The parts are contrived so that the forward oscillation of the swing slightly raises the foot-board and lowers the seat, and the backward oscillation produces the opposite effect, the object being to keep the foot-board or treadle always under the feet.

A is an A-shaped frame, to the upper cross-bars of which semi-cylinders or half-pulleys B are secured—two upon each side of the frame—with their convex faces projecting toward the center of the frame.

To the upper surface of the half-pulleys B

straps or other flexible supports C are secured. These straps are attached to the upper ends of bars D E, that support the seat F and the foot-board G.

The seat F, which is of the usual form, is rigidly secured to the bars E, and the foot-board G is pivoted to the lower ends of the front and rear bars.

It will be seen that the forward oscillation of the swing winds the forward supporting-straps partly around the forward half-pulleys, and unwinds the strap from the rear pulleys, thus changing the relative position of the seat and foot-board, so that the feet may be more advantageously applied to the latter in propelling the swing.

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

The combination, with frame A, of the half-pulleys B, straps C, bars D E, seat F, and foot-board G, all arranged substantially as and for the purpose specified.

JOSEPH HYDE FISHER.

Witnesses:

WM. G. MCKNIGHT,  
S. T. KING.