

J. W. BOWEN.
Swing.

No. 226,482.

Patented April 13, 1880.

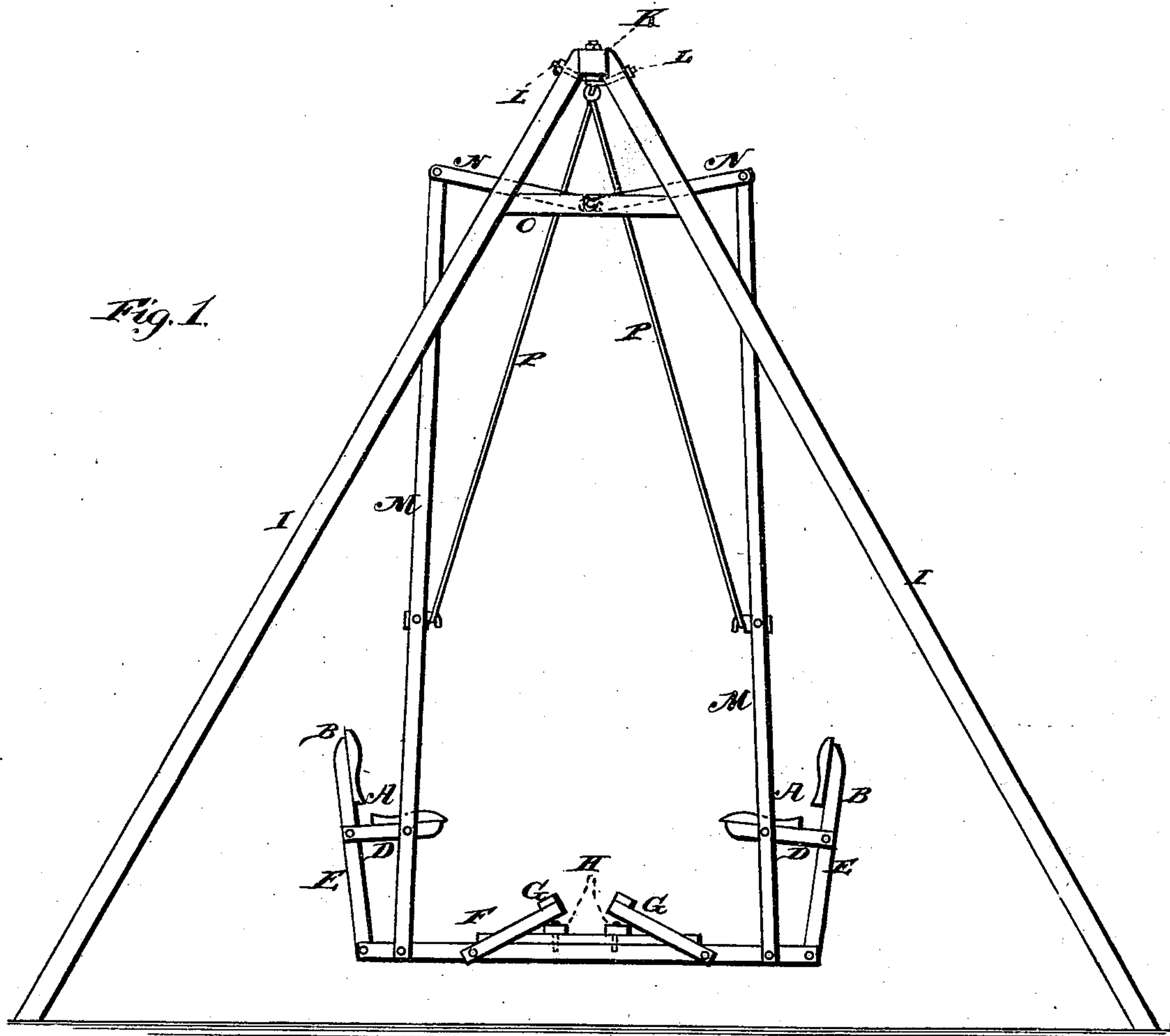
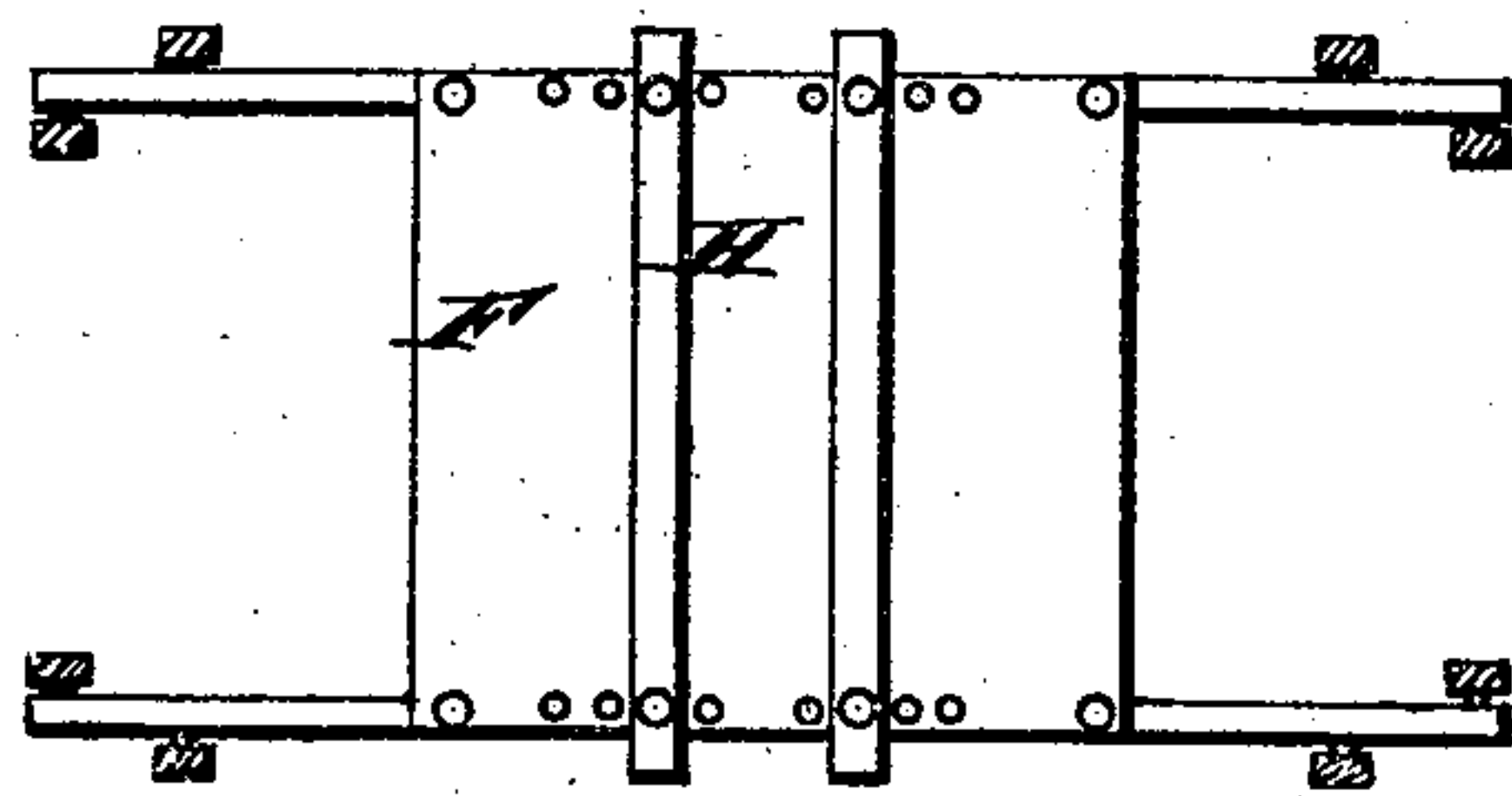


Fig. 2.



WITNESSES

Robert Everett
James J. Shiehy

INVENTOR

John W. Bowen
Gilmore Smith & Co.
ATTORNEYS

UNITED STATES PATENT OFFICE.

JOHN W. BOWEN, OF JACKSONVILLE, ILLINOIS.

SWING.

SPECIFICATION forming part of Letters Patent No. 226,482, dated April 13, 1880.

Application filed September 20, 1879.

To all whom it may concern:

Be it known that I, JOHN W. BOWEN, of Jacksonville, in the county of Morgan and State of Illinois, have invented certain new and useful Improvements in Swings; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of a side elevation of my swing, and Fig. 2 is a sectional detail view of the same.

The nature of my invention consists in an improved swing constructed and arranged for operation as described in the following specification, and particularly pointed out in the claims.

Referring by letter to the drawings, A are the swing-seats, B the backs, and D the rails which connect the seats and backs with the bars E, which, together with the platform F, constitute the main swing frame or body. G are pivoted foot-rests, and H bars which are adjustable upon the platform, and which may be removed near to or farther away from the pivotal points of the foot-rests. Said foot-rests bear upon these bars, and hence are elevated or lowered by the adjustment of said bars.

I are inclined stanchions, and K a cross-beam to which they are secured at their upper ends. Bolts L pass through the upper ends of stanchions I, which are mortised in the cross-beam. The bolts pass under the beam and connect by eyes on one pair and hooks upon the other. Hence these parts may be taken apart when desired.

M are vertical bars pivoted to the seats and to the bars E. The rails D are also pivoted to the said bars E, whereby a person sitting in the seat may brace his feet upon the foot-rest in front of him and push the seat away from the rest. This action operates the swing. The bars M are pivoted to lever-arms N, which in turn are pivoted to the side beams, O.

P are rods hooked to the vertical bars M and pivoted to the upper cross-beam, K. As herein shown, bolts are secured to the beams, and the rods are pivoted upon arms of the

bolts. The lower ends of the stanchions may be either secured to the ground in any suitable way or connected by cross-beams.

To put the swing in motion, press with the feet on the foot-rests, which have been previously adjusted to suit the person occupying the swing. This will throw the weight of the person against the seat-back, which will throw the strain upon the vertical bars M, which, being pivoted to arms N, cause the same to act as levers, and thus move the swing forward to the extent of the power exerted. When the pressure of the feet upon the rests is relaxed the swing moves back. By renewed pressure upon the foot-rest the swing again moves forward with increased velocity. By reverse pressure upon the rest the swing may be stopped.

I do not wish to confine myself, however, to a double-seated swing. A single-seated swing may be constructed upon the same principle, and in such case rods P will pass from the platform up to the pivotal points upon the cross-beam K. These rods are shown in dotted lines.

What I claim is—

1. In a portable swing, the swing seat and back, connected with a lower frame and with the vertical bars M by pivots, in combination with the pivoted lever-arms N, substantially as set forth.

2. The combination of the swing-seat A, backs B, rails D, pivoted to bars E, pivoted vertical bars M, and lever-arms N, pivoted to the bars M, and also to the supporting-frame of the swing, substantially as set forth.

3. The rods P, connected with bars M and pivoted to the beam K, in combination with a swing-seat adapted to be operated as herein set forth.

4. In combination with a swing, substantially as herein set forth, the stanchions I, cross-beam K, and the bolts L, connected by means of hooks and eyes, as set forth.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

J. W. BOWEN.

Witnesses:

THOS. MASON,
W. J. MOORE.