

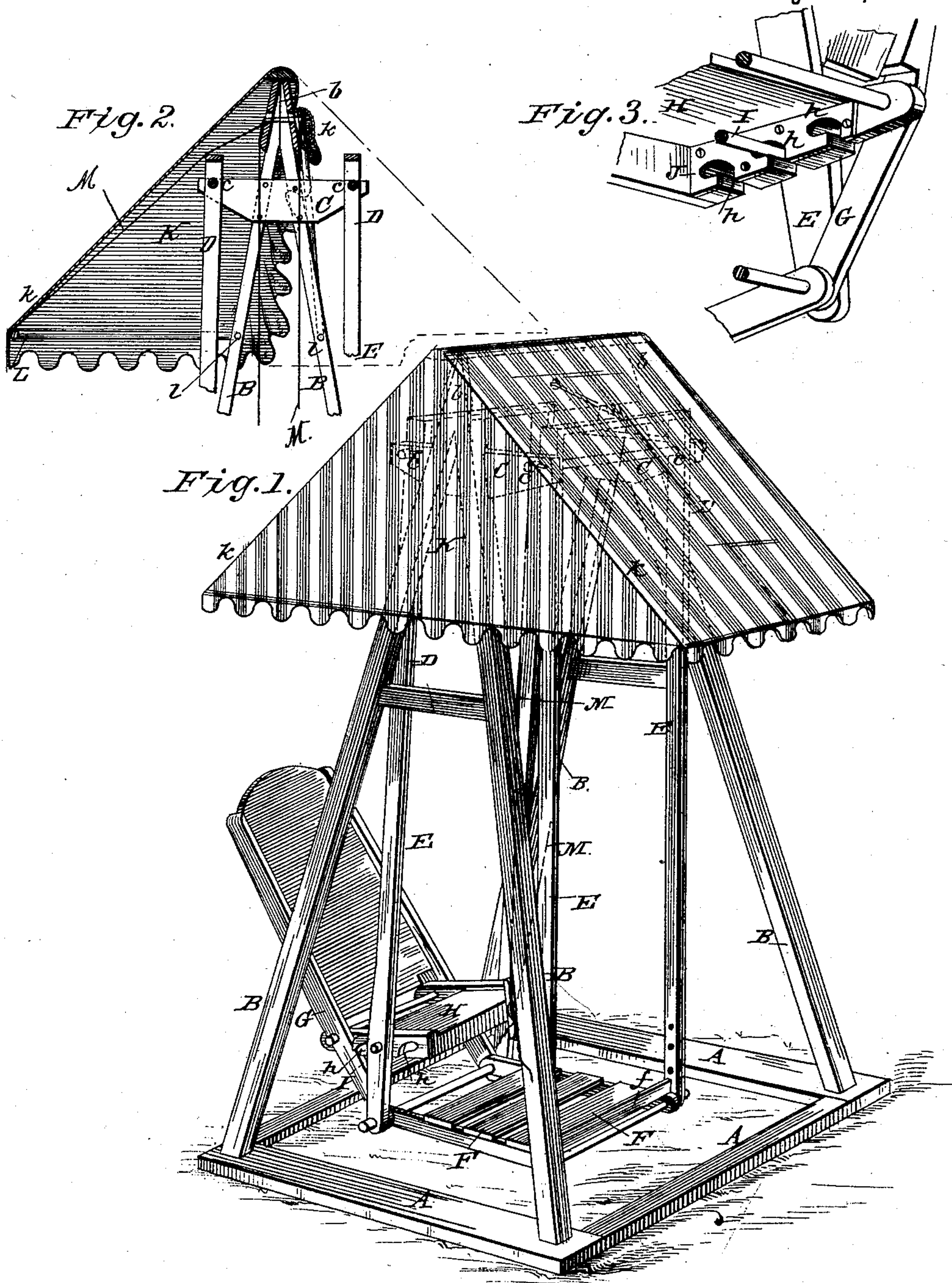
(No Model.)

J. O. LYON.

SWING.

No. 364,182.

Patented May 31, 1887.



WITNESSES:

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UNITED STATES PATENT OFFICE.

JOHN O. LYON, OF QUINCY, ILLINOIS.

SWING.

SPECIFICATION forming part of Letters Patent No. 364,182, dated May 31, 1887.

Application filed August 10, 1886. Serial No. 210,520. (No model.)

To all whom it may concern:

Be it known that I, JOHN O. LYON, of Quincy, in the county of Adams and State of Illinois, have invented a new and useful Improvement in Swings, of which the following is a specification.

This invention is an improvement in swings, and has for an object to provide a swing which will be convenient in use, easily portable, may be used in sun or shade, and may be quickly and easily adjusted for use by large or small persons and in either an upright sitting, a recumbent, or in a position intermediate the latter and upright.

To these ends the invention consists in certain features of construction and novel combinations of parts, as will be described.

In the drawings, Figure 1 is a perspective view of my swing ready for use, the awning being shown open or closed. Fig. 2 is a detached vertical section of the upper portion of the swing, the awning being in place, one half of the awning being shown open and the other closed; and Fig. 3 shows one of the seat-cleats and its re-enforcing plate.

The main frame consists of a base, A, and an upright frame consisting of beams B B B, mounted one at each corner of the base. These beams incline inwardly from the front and rear, and those on the same side meet at their upper ends, and the beams at the opposite sides are suitably joined, usually by means of strips or boards, as shown.

To the upright frame I secure beams C, which serve as supports for the pendent hanger, presently described.

It will be noticed that the upright frame projects above the beams C, forming an upward extension, *b*, of the main frame, which serves a purpose more fully described hereinafter.

To the beams C, I pivot at *c* the pendent hanger D, which consists of front and rear frames, E, which support at their lower ends the foot-rest F, the latter being preferably formed with a bearing portion, *f*, at its forward end. To the pendent hanger is pivoted, at its lower end, the back piece, G. The seat H is pivoted at its rear end to the back piece, and is provided in its under side with a series of notches, *h*, which engage a projection, I,

on the pendent hanger. These notches *h* are, by preference, made double-winged or Γ-shaped, with a vertical wing extending up from the under side of the seat and a horizontal wing extended forward from the upper end of said vertical wing. By this construction it will be seen the seat, when engaged with projection I, is practically locked in position. This projection is preferably a cross-rod, as shown, and the notches are also formed in depending cleats arranged at the sides of the seats. It is also preferred to re-enforce these cleats by metal plates J, secured to the inner sides of the cleats and having corresponding notches to those of the cleat.

By the described construction it will be seen the seat may be adjusted to an upright sitting, a reclining, or a position between the same, to suit the desire of the user, and this adjustment enables the device to be set for use by persons desiring to occupy a sitting, recumbent, or intermediate position.

It will be noticed that the swing requires no rope or other connection with a fixed point in order to initiate or continue the swinging action, the initiate or continued action being at the option of the person occupying the swing.

Above the main frame, and on the same, I support the awning K, formed in two halves, *k*; or the awning may be made single, if desired, and arranged to extend in front and rear of the main frame. Each of the halves *k* is supported at its outer edge by a frame, L, which is pivoted at *l* to the main frame. The crown of this awning is supported on the upward extension *b* of the main frame, and the awning is thereby held clear of the beams which support the pendent hanger. This upward extension *b* also serves as a bearing against which press the frames of the awnings when the latter are closed, as shown.

Cords M connect with the awning and extend thence in convenient reach, so the awning may be closed, as will be understood from Figs. 1 and 2.

In the construction most clearly shown in Fig. 2 the cords M are connected with the outer edge frames of the awnings and extend thence through openings in the extensions *b* and depend in reach of the operator. By

drawing on these cords it will be seen the awnings may be raised.

The front bars E of hanger D are provided, near their lower ends, with a series of openings, so the pivotal connection of same with the foot-rest may be varied to suit persons of different sizes. The rear bars E of said hangers are widened, as shown, at the point of connection with the seat proper, in order to give increased strength at this point.

In the use of my swing, to start, the person seated in the seat or chair places his feet upon the foot-rest and at or near the raised portion of the foot-rest in front, and, while lying or sitting at perfect ease, he presses upon his feet the same as in propelling a rocking-chair, and thus moves the rods out of a vertical position. My seat does not move nearer the front rods, but remains stationary, and the foot-rest keeps a horizontal position. My swing does not need the hands to pull on front rods or any other object, and the opposite motion to that described stops it, and it is almost automatic in its motion.

Chair-seats pivotally supported at their rear edges and provided in their forward under edges with notches arranged to engage projections or shafts in the front part of the chair-frame are not new, and I do not broadly claim such construction as my invention.

Having thus described my invention, what I claim as new is—

1. The combination of the pendent hanger, consisting of the front and rear frames and a foot-rest supported thereby, the back piece pivoted to said pendent frame, and the seat pivoted at its rear end to the back piece and provided on its under side with notches arranged to engage a suitable projection on the pendent hanger, substantially as set forth.

2. The combination of the main frame having the cross-beams C secured thereto and provided with an extension, *b*, above said cross-beams, the pendent hanger pivoted to said beams C, and the awning having its crown supported on the extension *b* and its edge frames pivoted to the main frame, substantially as set forth.

3. The improvement in swings, substantially as herein described and shown, consisting of the main frame having the fixed cross-beams C and the extension *b* above said beams, the pendent hanger pivoted to beams C, the awning having its crown supported on the extension *b* and its edge frame L pivoted at *l* to the main frame, and the cords M, secured to the outer edge frames of the awning, carried through guide-openings in extension *b*, and depending thence, substantially as set forth.

JOHN O. LYON.

Witnesses:

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