

(No Model.)

D. B. CLEMENT.
Swing.

No. 242,601.

Patented June 7, 1881.

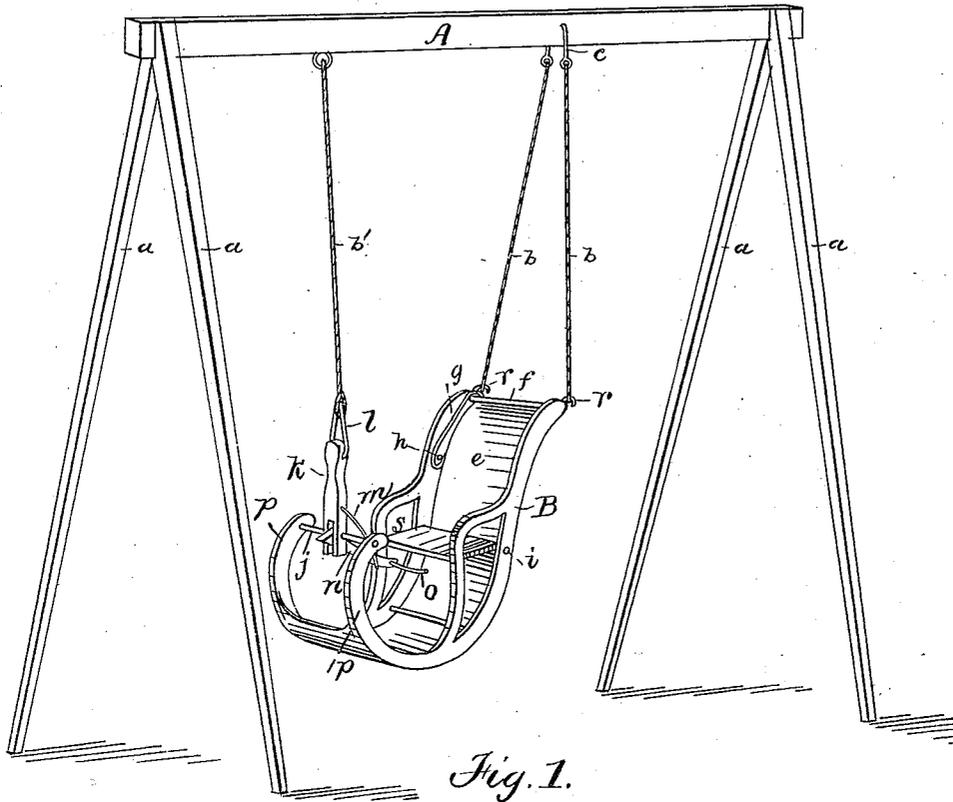


Fig. 1.

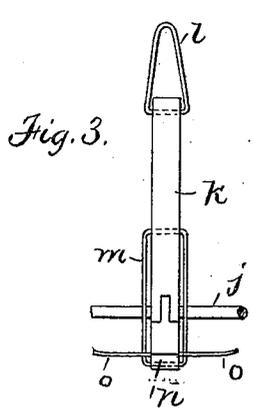


Fig. 3.

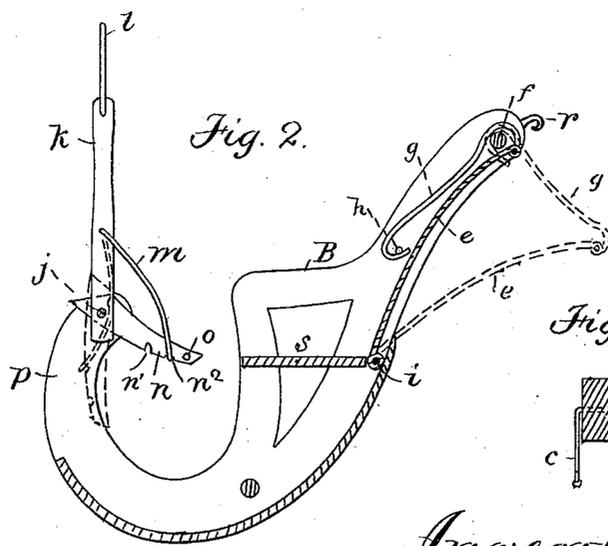


Fig. 2.

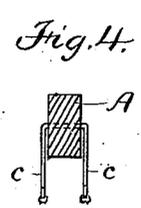


Fig. 4.

Witnesses
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UNITED STATES PATENT OFFICE.

DANIEL B. CLEMENT, OF BOSTON, MASSACHUSETTS.

SWING.

SPECIFICATION forming part of Letters Patent No. 242,601, dated June 7, 1881.

Application filed March 21, 1881. (No model.)

To all whom it may concern:

Be it known that I, DANIEL B. CLEMENT, of Boston, in the county of Suffolk and State of Massachusetts, have invented a new and useful Improvement in Swings, of which the following is a specification.

My invention relates to an improvement in swings in which motion is imparted by foot-power; and the invention consists, first, in the peculiar means of suspending the seat or chair, and, secondly, in the method of applying the foot-power for moving the swing and adapting the said foot-power to occupants of greater or less size; and the invention further consists in arranging the back of the swing chair or seat so that it can be readily thrown down to enable the occupant to assume a reclining position when desirable.

Referring to the drawings, Figure 1 is a perspective view of a swing embodying my invention. Fig. 2 is a longitudinal vertical section of the chair or seat of the swing. Fig. 3 is a front view of the foot-lever, and Fig. 4 shows the method of suspending the rear supporting ropes or chains.

A is a beam supported on the legs *a a a a*.

B is the body of the swing, containing the seat *s*. The rear portion of the body B is supported by means of ropes or chains *b b*, attached to the hooks *r r* on the upper portion of the body B, and at their upper ends to a bent metal rod or bar, *c c*, as shown more particularly in Fig. 4, so as to insure a direct forward and backward movement of the swing.

To the upper portion of the forward curved part, *p p*, of the main body B is secured a rod or bar, *j*, and to this cross-bar is pivoted an upright bar, *k*, attached at its upper end to a metal link, *l*. The said link is suspended to a rope or chain, *b'*, attached in any suitable manner to the beam A.

Fitting within a slot in the lower end of the upright bar *k*, and also pivoted to the cross-bar *j*, is an arm or lever, *n*, provided with a bar or foot-rest, *o o*, the upper part of which arm bears against the upper part of the slot in the bar *k*, as indicated by dotted lines in Fig. 2. When in this position the bar *k* and arm *n* form a rigid lever, so that, the bar *j* constituting the fulcrum, by pressing intermittently against the lower end of the arm *n* with

the feet, a swinging motion is imparted to the body B. When the bar *k* and arm *n* are in the position as above described the swing is adapted to persons of large size or stature.

To the upright bar *k* is attached, so as to move freely, a bent link, *m*, as shown in Figs. 2 and 3, which, when the bar *k* and arm *n* are arranged as just described, assumes the position shown in dotted lines, Fig. 2. When the swing is occupied by persons of shorter stature the arm *n*, which is provided with notches *n' n'* on its under side, is raised up, and the lower end of the link *m* is drawn forward and fitted in one or other of the notches *n' n'*, so as to be readily adjusted to persons of varying stature, as desired. When thus arranged the bar *k*, arm *n*, and link *m* constitute the lever, by moving which, as above described, motion is imparted to the swing.

The back *e* of the body B is hung or pivoted at the rear of the seat *s*, as shown at *i*, so as to admit of its being turned down, as indicated in dotted lines, Fig. 2.

To the upper part of the back *e*, at each side, are hung, on a bar, *f*, extending across the upper part of the body, or there may be two projections on the same, two metal rods, *g g*, the lower hooked ends of which engage with pins or projections *h*, by which the back *e* is held in position, as in Fig. 1. When a reclining position is desired the rods *g* are disengaged from the pins *h*, and as the back falls the hooked ends catch on the bar *f* and hold the back in the position shown in dotted lines in Fig. 2.

Instead of the frame A *a a*, the swing may be suspended from beams within a room or building.

In operation the occupant of the seat *s* places his feet on the foot rests or bars *o o* and pushes them forward, thus operating with the bar *k* as a lever against the end of the rope *b'*, which action gives motion to the swing, and by pressing intermittently on the bars *o o* the swing is moved to and fro, as desired.

What I claim as my invention is—

1. The bar *k*, suspended from a single rope, *b'*, in combination with an arm, *n*, the said bar and arm being pivoted to a rod, *j*, at the front part of the body B, substantially as and for the purpose set forth.

2. The combination of the bar *k*, rope *b'*, the notched arm *n*, and adjustable link *m* with the body B of a swing, substantially as and for the purpose specified.

5 3. In combination with the body B of a swing, the hinged or pivoted back *e*, the hooked rods *g*, and bar *f*, substantially as and for the purpose specified.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses. 10

DANIEL B. CLEMENT.

Witnesses:

JOS. H. ADAMS,
B. O'HARA.