

(No Model.)

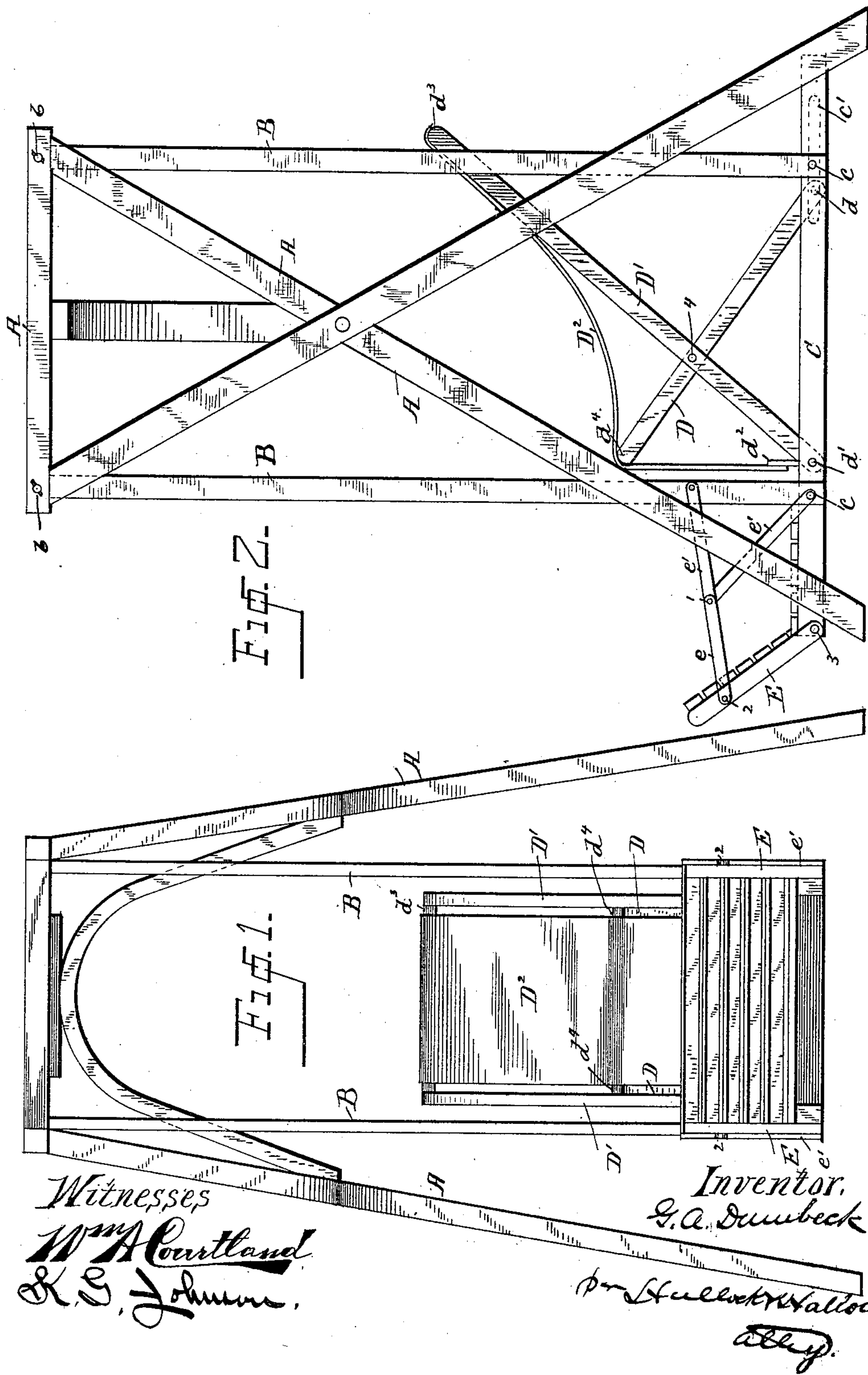
2 Sheets—Sheet 1.

G. A. DUMBECK.

SWING.

No. 379,768.

Patented Mar. 20, 1888.



Witnesses
Wm A Courtland
R. S. Johnson

Inventor,
G. A. Dumbuck
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Atty.

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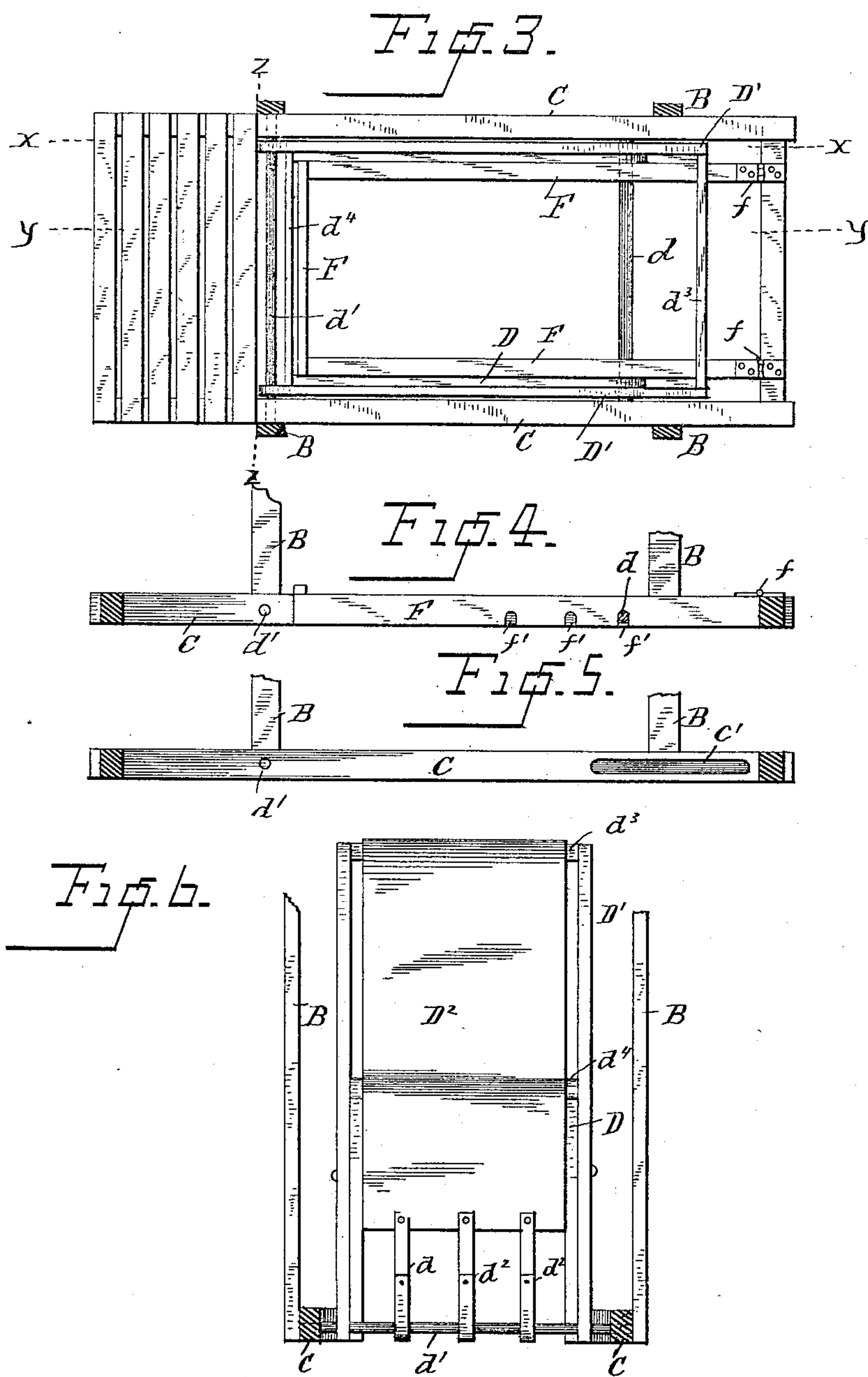
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UNITED STATES PATENT OFFICE.

GUSTAVE A. DUMBECK, OF ERIE, PENNSYLVANIA, ASSIGNOR OF ONE-HALF
TO JOHN P. GALLAGHER, OF SAME PLACE.

SWING.

SPECIFICATION forming part of Letters Patent No. 379,768, dated March 20, 1888.

Application filed June 20, 1887. Serial No. 241,875. (No model.)

To all whom it may concern:

Be it known that I, GUSTAVE A. DUMBECK, a citizen of the United States, residing at Erie, in the county of Erie and State of Pennsylvania, have invented certain new and useful Improvements in Swings; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to swings; and it consists in certain improvements in the construction thereof, as will be hereinafter fully set forth, and pointed out in the claims.

The invention is illustrated in the accompanying drawings as follows:

Figure 1 is a front elevation of a swing embodying my invention. Fig. 2 is a side elevation of the same. Fig. 3 is a top or plan view of the platform C and the frame-work of the seat or chair. Fig. 4 shows the frame of the platform C and the catch-frame F in longitudinal section on the line *yy* in Fig. 3. Fig. 5 shows the said frame C in like section on the line *xx* in the same figure. Fig. 6 shows the frame C in transverse section on the line *zz* in Fig. 3 and the chair or seat in front elevation.

The construction is as follows:

A is a supporting frame or horse.

B B B B are four pendants, which are pivoted at *b* at the four corners of the rectangular frame-piece at the top of the horse, and at *c* on the platform C, which is a rectangular frame-work. These pendants all hang plumb, and are therefore parallel, and allow the frame or platform C to swing, but always keep it in a horizontal position.

At the front of the platform C there is a treadle, E, which is pivoted to the platform at 3, and is connected by a link, *e*, to a bracket, *e'*, which extends from the adjacent pendant B, said link being pivoted at 1 and 2. There are two of these connecting-links, one on each side of the swing.

The occupant of the seat can easily rest his feet on the treadle E, and by exerting force against it he will set the swing to vibrating. The links *e* may extend from the treadle to the pendants, if desired, and thus do away with

the bracket *e'*; but I find the action better to have a shorter link, so I provide the brackets *e'*.

The chair or seat of the swing consists of two frame-pieces, D and D', which are pivoted together in X form at 4. The lower end of the frame D' is pivoted to the platform on a cross-rod, *d'*, and the lower end of the frame D has its rung *d*, which is extended sufficiently, set in slots *c'* on the inside of the side pieces of the frame-work of the platform C. (See dotted lines in Fig. 2 and full lines in Fig. 5.) The cross-rod *d'* may serve as the pivot of the pendant B at the front of the platform, as shown in Figs. 3, 4, 5, and 6, or not, as seen in Fig. 2, as desired. A frame, F, is pivoted to the rear cross-piece of the platform frame-work at *f'f'*, which is provided with notches *f'f'*, which engage the lower rung of the frame D and hold that part from moving in the slot *c'*. When it is desired to adjust the chair to different angles, the frame F is lifted, which can be done by taking hold of its front cross-piece and thus disengaging the rung *d* from the notch *f'* in the frame F, in which it is engaged, and allowing it to be moved and adjusted in one of the other notches.

The back and seat of the chair is a strip of canvas, D², which is attached at its upper end to the upper cross-piece *d³* of the frame D', and passes over the upper cross-piece *d¹* of the frame D, and is connected at the lower end with the cross-rod *d'* by straps *d² d² d²*. These straps should be provided with buckles or buttons, so they can be adjusted so as to give the proper tension to the canvas, as the said canvas will become sagged when much used and not occasionally dampened. The chair thus constructed can be adjusted so its back will be nearly vertical, or so it will be nearly horizontal, thus enabling the occupant to sit erect or recline, as desired.

I am aware that swings have been heretofore made having adjustable frame-work with canvas used for the seat and back of the chair—as, for example, in Patents Nos. 302,096 and 236,630; but the constructions there shown do not contain the invention I shall hereinafter claim.

I am also aware that swings have been made

heretofore with treadles by which they are kept in vibration—as, for example, in Patent No. 302,164; but such construction does not contain my invention.

5 What I claim as new is—

1. In a swing, the combination of the parallel pendants B, platform C, treadle E, and links *e*, connecting the treadle E with the bars B, said parts being combined and arranged
10 substantially as and for the purposes set forth.

2. In a swing, the combination of the platform C, supported by four parallel pendants, a treadle, E, pivoted to said platform at one end and connected by a pivoted link, *e*, at the
15 other end with the adjacent pendant above the pivot by which it is connected with said platform.

3. In a swing, the combination of a supporting-frame or horse, a rectangular frame supported by said horse, four parallel pendants, B, pivoted at the four upper corners of said
20 frame, a platform, C, sustained by said pendants on pivots *c*, a treadle, E, pivoted to said platform, and links *e*, connecting the top of
25 said treadle with the adjacent pendants at a point above the pivots *c* by pivots 1 and 2, substantially as set forth.

4. In a swing, the combination of a platform, C, supported so as to be vibrated, and a
30 chair supported on said platform, which consists of the frames D and D', pivoted together in X form, and the back and seat formed of flexible material attached to the top of the frame D', passing over the top of the frame D,

and connected at its lower end with the fixed
35 part of the platform C, substantially as set forth.

5. In a swing, the combination, with a platform which is supported so as to be vibrated, of a chair consisting of the frames D and D',
40 pivoted together in X form, the lower end of the frame D' being pivotally connected with said platform, and the lower end of the frame D being adjustably variable on said platform, and a back and seat of flexible material connected
45 at the top to the top of the frame D', passing over the top of the frame D, and connected at its lower end to a fixed part of said platform.

6. In a swing, the combination, with the
50 platform C, supported so as to be vibrated, and having the cross-rod *d'*, the slots *c'*, and the pivoted catch-frame F, as shown, of a chair composed of the frames D and D', pivoted together in X form, with the lower end of the
55 frame D' pivoted to the said cross-rod *d'*, and the lower end of the frame D secured in said slots *c'* and engaged by said catch-frame, and a back and seat of flexible material connected with the top of the frame D and secured at its
60 lower end to the cross-rod *d'*.

In testimony whereof I affix my signature in presence of two witnesses.

G. A. DUMBECK.

Witnesses:

JNO. K. HALLOCK,
WM. A. COURTLAND.