

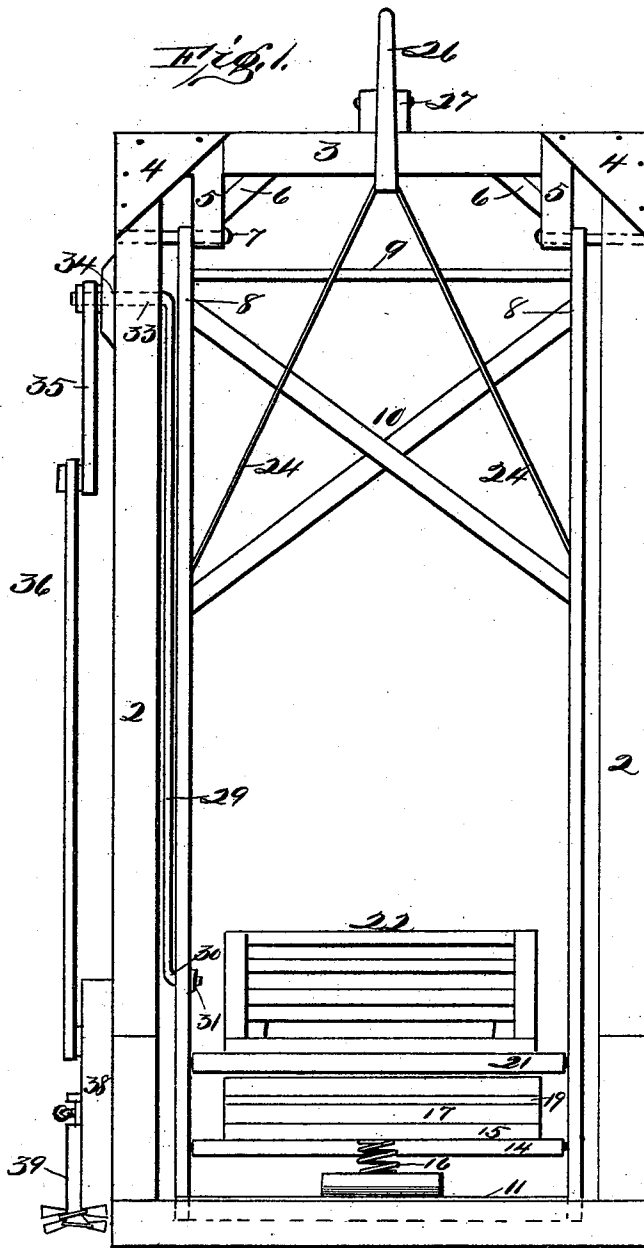
(No Model.)

3 Sheets—Sheet 1.

T. H. DIETZ.
SWING.

No. 583,876.

Patented June 1, 1897.



Witnesses:

J. M. Fowler
R. E. Rabbit.

Inventor

Thos. H. Dietz.

By

John S. Duffin.
Attorney.

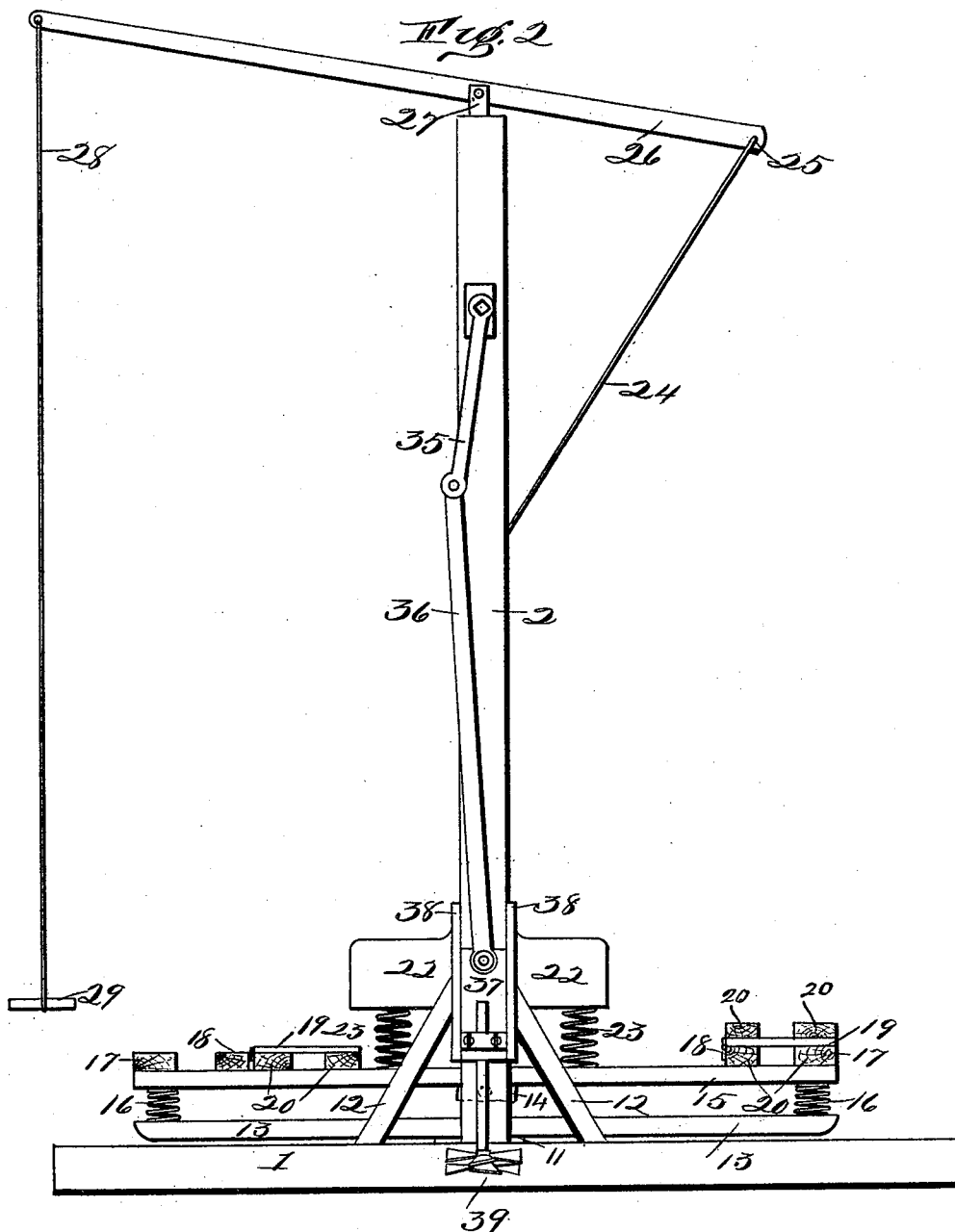
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8 Sheets—Sheet 2.

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Thos. H. Dietz
By *John S. Duffie*
Attorney

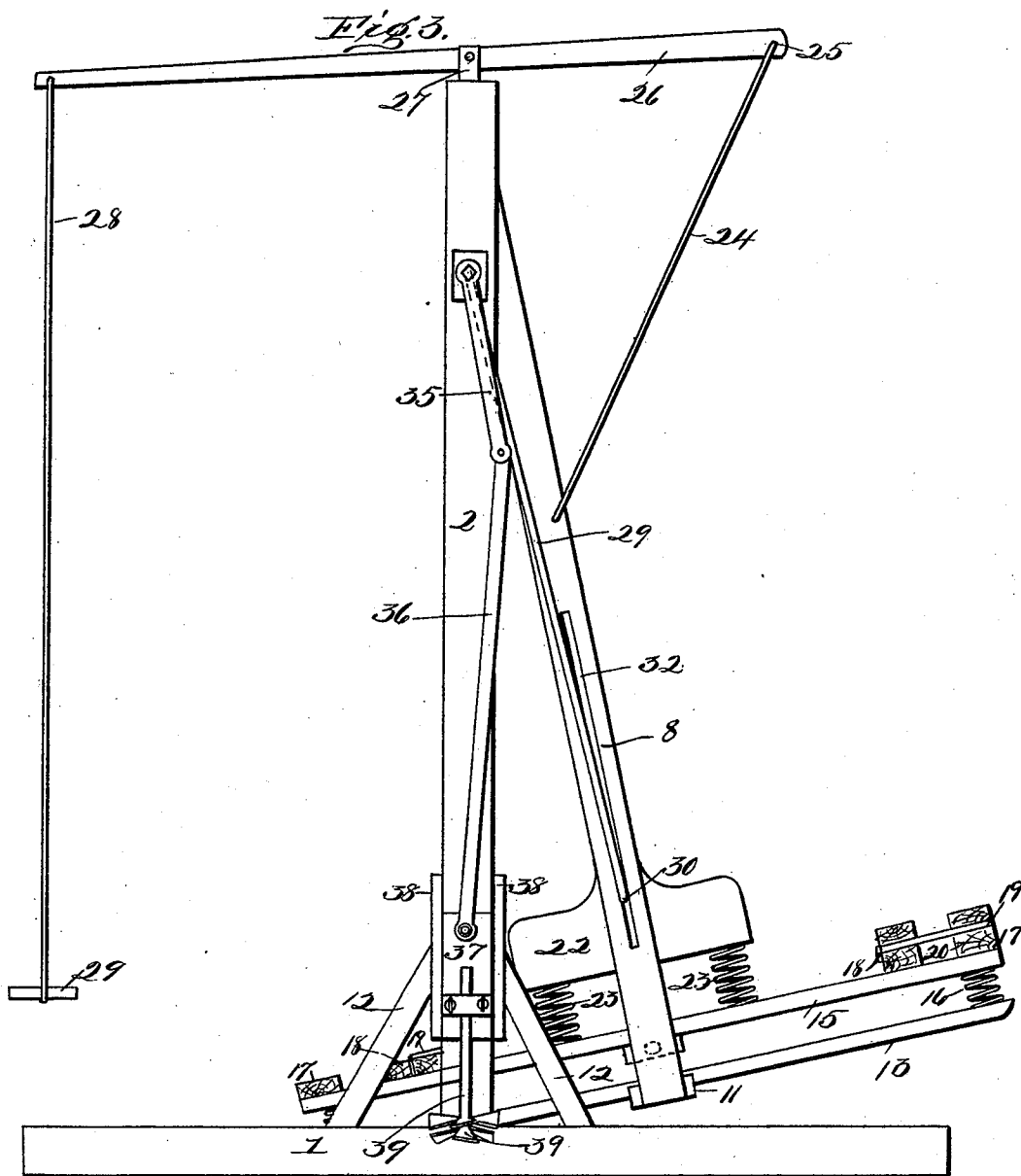
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3 Sheets—Sheet 3.

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Witnesses:
J. McQuay Jr.
R. C. Rabbitt.

By

Inventor
Thos. H. Dietz.
John S. Duffie.
Attorney

UNITED STATES PATENT OFFICE.

THOMAS H. DIETZ, OF ENNIS, TEXAS.

SWING.

SPECIFICATION forming part of Letters Patent No. 583,876, dated June 1, 1897.

Application filed August 28, 1896. Serial No. 604,203. (No model.)

To all whom it may concern:

Be it known that I, THOMAS H. DIETZ, a citizen of the United States, residing at Ennis, in the county of Ellis and State of Texas, 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.

My invention is a swing and churn attachment; and it consists of a frame properly balanced and mounted and a swing pivoted therein, provided with seats, foot-rests, springs, lever, and cords operating the same, together with mechanism for operating the churn, as hereinafter set out in the following specification and the claims hereto attached.

In the accompanying drawings, Figure 1 is a front elevation of my invention. Fig. 2 is a side elevation. Fig. 3 is a side elevation of my invention with the swing partly thrown out.

My invention is described as follows:

1 is the base, which is composed of four pieces joined together and braced by corner-pieces.

2 are uprights secured at their top ends to the head-piece 3. Said uprights 2 and head-pieces 3 are braced at their conjunction by corner-pieces 4. Depending from the head-pieces are two bearings 5, and said bearings are braced to the head-piece by braces 6.

Extending through the uprights 2, near their upper ends, and through the lower ends of the bearings are bolts 7. Pivoted to these bolts 7 are swing-arms 8. The upper end of these arms are stayed and braced in this position by the cross-piece 9 and braces 10. The lower ends of these swing-arms are secured in a heavy substantial beam 11, the upper edge only of which is shown above the upper edge of the base 1. The uprights 2 are secured from oscillating by braces 12.

Firmly and rigidly secured to the beam 11 is a beam 13. This beam runs parallel with the longer sides of the frame 1. A short distance above this beam (a foot or more) is pivoted in swinging arms 8 a beam 14, and to this pivoted beam is secured the swing-floor 15. Between each end of the beam 13 and swing-floor 15 are secured spiral springs 16,

and on the ends and running crosswise of the swing-floor are secured cross-pieces 17 18, and to the inner cross-pieces 18 is hinged a board 19, and to the upper face of this board is secured two other cross-pieces 20.

Immediately above the swing-floor 15 is pivoted in swinging arms 8 a beam 21, and to said beam is secured a double seat 22. Under each end of this double seat is secured a spiral spring 23, the lower end of which (each) is secured to the upper face of the swing-floor 15. To the inner face of each of the swing-arms is secured each end of a cord 24. The upper and loop end of said cord is passed through a perforation 25 of a lever 26. Said lever is pivoted in a bearing 27, secured on the upper face of the head-piece 3. To the longer end of the lever is secured the upper end of the pending cord 28, the lower end carrying a handhold in reach of the rider.

In one of the uprights 2 is pivoted a rod 29, having on its lower end a right-angled bend 30. Said right-angled bend passes through a slot and is secured from withdrawing by a nut 31, which works against the inner face of the swing-arm 8. Said right-angled bend 30 moves up and down in a slot 32, that runs longitudinally in the swing-arm 8. Said rod 29 has on its upper end another right-angled bend 33, which passes through a perforation 34 near the upper end of one of the uprights 2. To the outer end of said right-angled bend 33 is rigidly secured a crank-arm 35. To this crank-arm is pivoted the upper end of a pitman 36, the lower end of which is pivoted to a pitman-block 37, which plays up and down in guides 38. To the lower end of said pitman is secured a churn-dasher 39.

The purpose of having the swing-floor 15 pivoted and having the same provided with the coil-springs 16 is to give additional ease to the movements of the swing. The purpose of the coil-springs 23 is the same.

The riders sit in the seats 22, with their feet on the cross-pieces 17 or 18, but in case of children their legs are not long enough to reach, and so I have provided the swing with the hinged parts 19 20, and when children are riding these parts 19 20 are thrown up over parts 17 and 18, as shown on the right-hand side of Fig. 2.

In case greater rapidity in swinging is de-

sired, or in case children too small to use the foot-rest are swinging, they use the cord 28, which operates lever 26, and through that cords 24, and through said cords the swing-arms 8.

5 When the swing is in operation, the right-angled bend 30 is carried back and forth by the swing-arm 8. This operates the crank-arm 35, which operates the pitman 36, which
10 in turn operates pitman-block 37 and dasher 39.

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

15 1. The base-frame 1, provided with the up-rights 2, and head-piece 3; depending bearings 5; bolts 7, passing through uprights 2, and bearings 5; swing-arms 8, pivoted to bolts 7, and secured at their lower ends by cross-
20 beam 11, and properly braced; beam 13, rigidly secured to cross-beam 11; cross-beam 14, pivoted in the uprights 2; swing-floor 15, rigidly secured to said cross-beam; spiral springs 16, one under each end of the swing-floor and
25 secured to the ends and upper face of beam 13; beam 21, pivoted above the swing-floor 15; seats 22, rigidly secured to said beam;

spiral springs 23, one secured under each end of seat 22, their lower ends secured to the upper face of the swing-floor 15, substantially 30 as shown and described and for the purposes set forth.

2. In combination with a swing having up-rights 2, a swinging body journaled in said uprights; a perforation in one of the uprights 35 and a slot in one of the swinging arms; rod 29, its right-angled arm 30, working in slot 32, of swing-arm 8, its upper right-angled arm 33, working in perforation 34; crank-arm 35, rigidly secured to the outer end of right-angled 40 arm 33; guides 38, secured to the uprights 2; churn-dasher 39, secured in pitman-block 37; pitman-block 37, working up and down in guides 38; pitman 36, pivoted to crank-arm 35, and pitman-block 37, substantially as 45 shown and described and for the purposes set forth.

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

THOMAS H. DIETZ.

Witnesses:

GEO. H. HOGAN,
D. S. GOBLE.