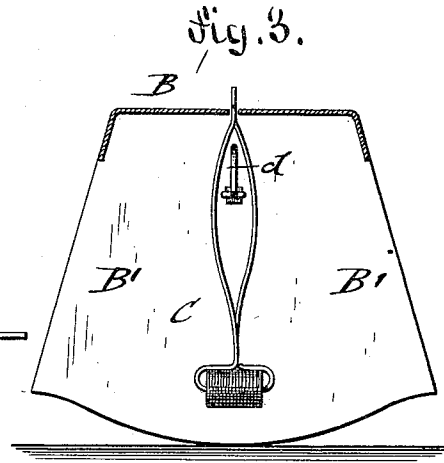
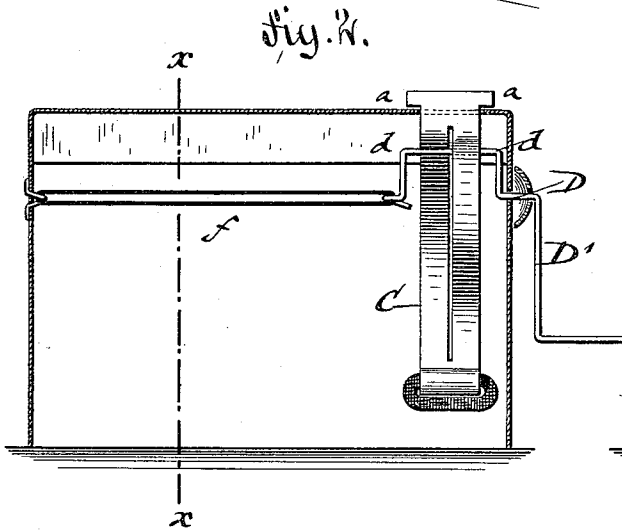
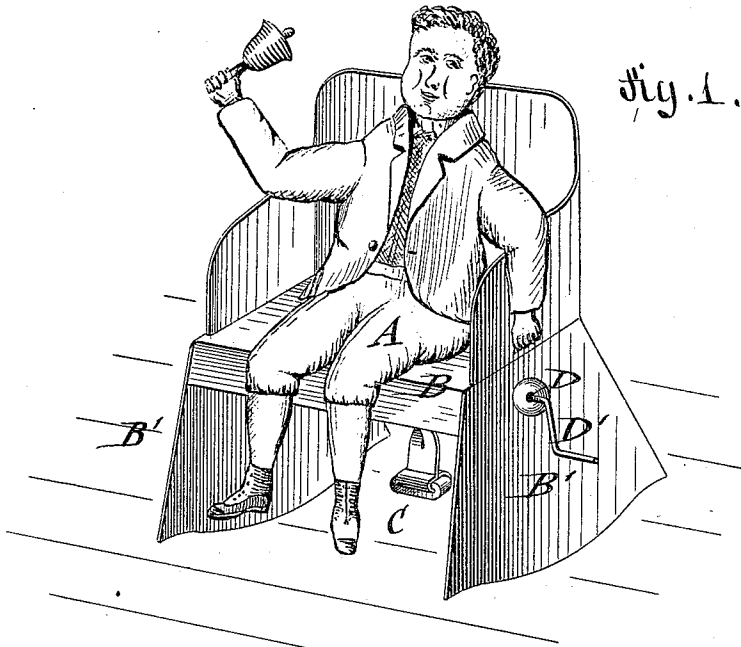


(No Model.)

R. TEICHMANN.
MECHANICAL TOY.

No. 403,307.

Patented May 14, 1889.



WITNESSES:

J. W. Rosenbaum.
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INVENTOR

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UNITED STATES PATENT OFFICE.

RICHARD TEICHMANN, OF BROOKLYN, NEW YORK.

MECHANICAL TOY.

SPECIFICATION forming part of Letters Patent No. 403,307, dated May 14, 1889.

Application filed January 4, 1889. Serial No. 295,422. (No model.)

To all whom it may concern:

Be it known that I, RICHARD TEICHMANN, of Brooklyn, in the county of Kings and State of New York, a citizen of Germany, have
5 invented certain new and useful Improvements in Mechanical Toys, of which the following is a specification.

This invention relates to a mechanical toy of that class in which a rocking motion is imparted to the body of the toy by the torsional action of a suitable spring in connection with an oscillating pendulum actuated by said torsional spring; and the invention consists of a toy provided with a rocking frame, a weighted
15 pendulum pivoted to said frame, and a torsion-spring which is applied at one end to said rocking frame and at the opposite end to a journaled crank-handle, which, on being turned, imparts torsional action to the spring,
20 said crank engaging the pendulum and imparting an oscillating motion thereto, by which a rocking motion is given to the toy.

In the accompanying drawings, Figure 1 represents a perspective view of my improved
25 mechanical toy. Fig. 2 is a vertical longitudinal section of the rocking frame of the same, showing the actuating torsion-spring and pendulum; and Fig. 3 is a vertical transverse section on line $x x$, Fig. 2.

30 Similar letters of reference indicate corresponding parts.

Referring to the drawings, A represents the toy figure of a mechanical toy, which figure may represent any desired object, and which
35 is supported on a rocking frame formed of a platform, B, and rockers B' B', which latter are by preference made integral with the platform B. To the platform B is pivoted at a point located in the plane of the center of
40 gravity of the toy a pendulum, C, the upper end of which is provided with pivots a , on which the pendulum can oscillate on the supporting-platform B. The pendulum C is made of wire, sheet metal, or other suitable
45 material, and made in the shape of an elongated loop, or biconvex, as shown in Fig. 3, so as to be engaged by the crank d of the crank-shaft D, which turns in suitable bearings of the rocking frame, said crank being connected at the inner end with the torsion-spring f , of rubber or other suitable material,
50 that is attached at its opposite end to the

rocker B' of the frame B B'. The crank-shaft D is provided outside of the rocking frame with a handle, D', by which the crank can
55 be turned on its axis, and thereby the torsion-spring f twisted, so as to store up the necessary power for rocking the toy for a certain length of time. During the twisting action imparted to the spring by the crank-handle
60 the pendulum follows the motion of the crank by oscillating from one side to the other. When the crank-handle is released, the torsion-spring f untwists and actuates the crank, and thereby the pendulum, which is oscillated
65 by the crank, so as to impart by its momentum a rocking motion to the supporting-frame of the toy figure, which rocking motion is kept up until the power of the spring is spent. The rocking frame follows the motion of the
70 pendulum as the weight of the latter passes to one side or other of the center of gravity of the toy, which rocking motion is kept up as long as the pendulum can be oscillated by the torsion-spring.

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

1. In a mechanical toy, the combination of a rocking frame, a pendulum provided with a slot or opening and pivoted to said platform
80 in the plane of the center of gravity of the same, a crank-shaft journaled to said rocking frame and engaging by its crank the slot of the pendulum, and a torsion-spring attached at one end to the crank of the crank-shaft
85 and at the opposite end to the rocking frame, substantially as set forth.

2. In a mechanical toy, the combination of a rocking frame, a pendulum pivoted to said rocking frame at a point in the plane of the
90 center of gravity of the same, said pendulum being made of two concavo-convex sections, a crank-shaft journaled to said rocking frame and engaging by its crank the sections of said pendulum, and a torsion-spring connect-
95 ed to the crank and to a fixed point of the rocking frame, substantially as set forth.

In testimony that I claim the foregoing as my invention I have signed my name in presence of two subscribing witnesses.

RICHARD TEICHMANN.

Witnesses:

PAUL GOEPEL,
JOHN A. STRALEY.