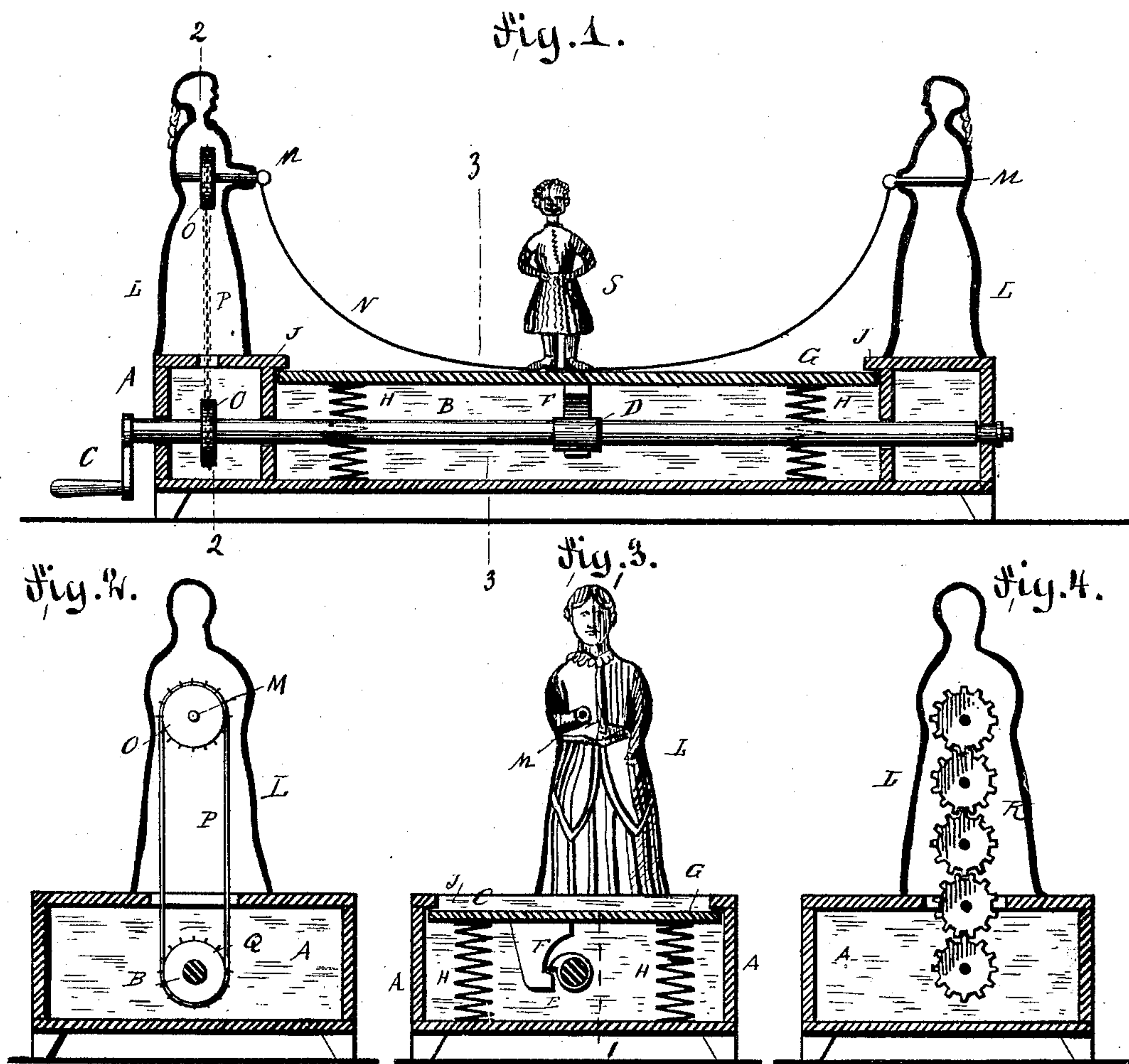


(No Model.)

V. LOPEZ.  
TOY.

No. 432,316.

Patented July 15, 1890.



WITNESSES:

*for H. Rosentamm.*  
*Wimherr*

INVENTOR

*Virgil Lopez*  
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# UNITED STATES PATENT OFFICE.

VIRGIL LOPEZ, OF BROOKLYN, NEW YORK.

## TOY.

SPECIFICATION forming part of Letters Patent No. 432,316, dated July 15, 1890.

Application filed December 21, 1889. Serial No. 334,588. (No model.)

*To all whom it may concern:*

Be it known that I, VIRGIL LOPEZ, of Brooklyn, in the county of Kings, State of New York, a citizen of the United States, have invented certain new and useful Improvements in Toys, of which the following is a specification.

The object of the invention is to provide a new and amusing toy, which is to represent two girls or other figures turning a rope and a third figure skipping said rope.

The invention consists in the construction and combination of parts and details, as will be fully described and set forth hereinafter, and finally pointed out in the claims.

In the accompanying drawings, Figure 1 is a vertical longitudinal sectional view of my improved toy on the line 1 1, Fig. 3. Fig. 2 is a vertical cross-sectional view on the line 2 2, Fig. 1. Fig. 3 is a vertical transverse sectional view on the line 3 3, Fig. 1. Fig. 4 is a vertical transverse sectional view on the same plane as Fig. 2, showing a modified construction.

Similar letters of reference indicate corresponding parts.

In a flat box A the shaft B is journaled, and is provided at one end with a crank C for turning it. Said shaft is provided with a cam D, that can act on a tappet E, formed on a piece F, projecting downward from a vertically-movable platform G, which is pressed upward by suitable springs H, placed on the bottom of the box, said springs pressing the ends of the platform against ledges or stops J, formed on the top of the box. An opening G is formed in the top of the box between said stops or ledges J.

L represents the two figures, in the projecting arms of which the shafts M are arranged, and to the ends of said shafts a curved wire N is secured, which is curved to represent a skipping-rope, the middle parts of said wire extending down to the upper surface of the platform G. A sprocket-wheel O is fixed on the shaft M in one of the figures L, and around the same the driving chain or belt P passes, which also passes around the sprocket-wheel Q, of the same size as the wheel O and fixed on the shaft B, so that the shaft B and the shaft M rotate at the same speed.

In place of transmitting motion and power from the shaft B to the shaft M by means

of sprocket-wheels and driving-chain, a series of gear-wheels R may be used, as shown in Fig. 4.

Upon the center of the platform G a figure S is placed, which has its feet weighted in some suitable manner. They are preferably made of lead.

The operation is as follows: For each revolution of the shaft B the cam D, which engages the tappet E, pulls the said tappet E, piece F, and platform G downward, whereby the springs H are compressed. The cam D then suddenly releases the tappet E, permitting the springs H to throw the platform G upward forcibly against the stops J, thus causing the figure S to be thrown upward from the platform a short distance. As the shaft is rotated, the wire N is turned or swung in same manner as a rope is swung while skipping it, and said wire is so arranged that it passes over the top of the platform at the very moment when the figure has been thrown upward from the said platform by the impact of the platform against the stops J, so that the said wire N can pass between the feet of the figure S and the top of the platform during that short space of time that the figure has been thrown up. As the feet of the figure S are weighted, the figure always drops down upon the original spot and is not apt to topple or tumble over.

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

1. The combination, with a vertically-movable platform, of a curved wire mounted at both ends to swing over said platform and a figure resting loosely upon the platform, substantially as set forth.

2. The combination, with a vertically-movable platform, of springs for pressing it upward, a shaft for drawing the platform downward and releasing it, a curved wire mounted to swing over the platform and operated from the same shaft that draws down the platform, and a figure resting loosely on said platform, substantially as set forth.

3. The combination, with a box, of a vertically-movable platform on the same, stops against which the platform can rest, springs for pressing the platform against said stops, a shaft for drawing down and releasing the



platform, a curved wire mounted to swing over the platform and operated from the shaft that draws down the platform, and a figure resting loosely on said platform, substantially  
5 as set forth.

4. The combination, with a box, of a vertically-movable platform, stops against which the platform can rest, springs for pressing the platform against said stops, a tappet projecting from the under side of the platform, a  
10 shaft in the box, a cam on said shaft adapted to engage the tappet, a wire mounted to swing over the top of the platform and provided with a shaft carrying the cam, and a figure

resting loosely upon said platform, substantially as set forth. 15

5. The combination, with a vertically-movable spring-actuated platform, of a curved wire mounted to swing over the same and a figure resting loosely on the platform, substantially as set forth. 20

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

VIRGIL LOPEZ.

Witnesses:

OSCAR F. GUNZ,  
OSCAR HOFMANN.