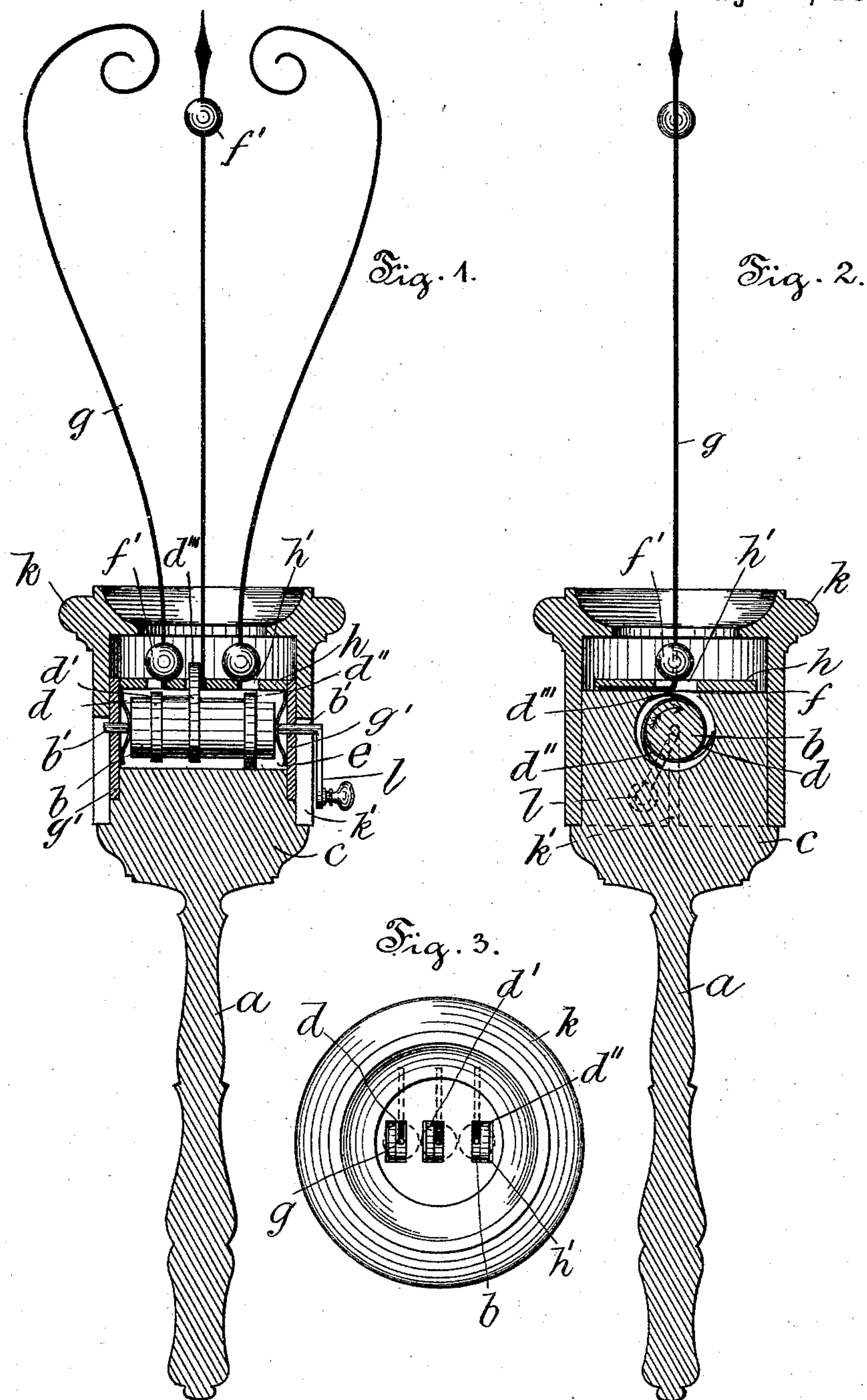


(No Model.)

C. J. J. BUSACKER.
TOY.

No. 474,543.

Patented May 10, 1892.



Witnesses:
Lennann Bornmann
Thomas M. Smith.

Inventor.
Carl Johann Jürgens Busacker,
J. Walter Douglas.
att'y.

UNITED STATES PATENT OFFICE.

CARL JOHANN JÜRGEN BUSACKER, OF GOSLAR, GERMANY.

TOY.

SPECIFICATION forming part of Letters Patent No. 474,543, dated May 10, 1892.

Application filed September 21, 1891. Serial No. 406,418. (No model.) Patented in Germany June 11, 1890, No. 56,771, and in England August 29, 1891, No. 14,659.

To all whom it may concern:

Be it known that I, CARL JOHANN JÜRGEN BUSACKER, a subject of the King of Prussia, residing at Goslar, in the Kingdom of Prussia, German Empire, have invented certain new and useful Improvements in Toys, (for which I have obtained German Letters Patent No. 56,771, dated June 11, 1890, and English Letters Patent No. 14,659, dated August 29, 1891,) of which the following is a specification.

My invention has relation in general to toys, and more particularly to the construction and arrangement of a toy for furnishing pleasure or amusement to children as well as grown persons.

The principal object of my invention is to provide a toy of simple and durable construction and such as is inexpensive to manufacture and adapted for general pleasure and amusement.

My invention consists of a toy constructed and the parts thereof arranged for operation substantially in the manner hereinafter described and claimed.

The nature and objects of the invention will be more fully understood from the following description, taken in connection with the accompanying drawings, forming part hereof, and in which—

Figure 1 is a view, partly in elevation and partly in section, of a toy embodying features of my invention. Fig. 2 is a vertical transverse section through the toy, and Fig. 3 is a top or plan view of Fig. 1.

Referring to the drawings, *c* represents a cylindrical or other form of body provided with a handle *a*. This body *c* is recessed at right angles to the axis thereof, and a longitudinal slot *f* is formed in the upper face of the body *c*. In this recess is mounted a roller *b*, having pins *b'* at the respective ends thereof. The body *c* is provided with plates *g'* to form bearings for the roller *b*. At suitable distances apart on the roller *b* are provided springs *d*, *d'*, and *d''* of such length as that the free ends *d'''* will protrude over the slot *f*, formed by the recess *e*. These springs are compressed in the recess *e* and arranged so as to alternately operate from the roller *b*—that is to say, when the roller *b* is rotated the free end *d'''* of the spring *d* is arranged so as to

enter the slot *f* by reason of its elasticity, and by continuing the rotation of the drum the free end *d'''* of the spring *d'* will enter the slot and then the free end of the spring *d''*. The slot *f* is inclosed or shielded by a plate *h*, provided with recesses *h'*. These recesses *h'* are of any suitable size and are situated directly over the springs *d*, *d'*, and *d''*. On the body *c* are situated curved steel or other suitable metallic wires *g*, protruding vertically through the recesses or openings *h'* of the said cover *h*. On these wires *g* are mounted balls *f'*, made of any suitable material and weight best adapted for the intended purpose. The body *c* is further provided with a detachable cover *k*, provided with a central opening and slotted wall *k'*, through which extend the pins *b'* of the roller *b*, and to one or the other of the said pins *b'* is applied in any preferred manner a crank or handle *l*.

The mode of operation of the toy hereinbefore described is as follows: When the balls *f'*, mounted on the respective wires *g*, are at rest, they occupy positions in the recessed portions *h'* of the cover *h*, and with the roller *b* occupying in this case such position in the body *c* that the ends *d'''* of the respective springs *d*, *d'*, and *d''* bear against the wall or surface of the recess *e*. When desired, the roller *b* is rotated by means of the handle *l*, which causes the ends *d'''*, respectively, of the springs *d*, *d'*, and *d''* to penetrate or enter alternately the recesses *h'* of the cover *h* and strike against the balls *f'*, resting in the said recesses *h'*, to cause the respective balls to be thrown upward successively along the wires *g*, and are then permitted to return to their former or normal positions by gravity. By continuing the rotation of the roller *b* the free ends of the respective springs will again be compressed in the recesses. These consecutive actions may be caused to take place so long as the rotation of the roller is continued, thereby furnishing considerable amusement to the young and even a few moments of pleasure to grown persons indulging in the actual manipulation of the device, as hereinbefore explained.

Having thus described the nature and objects of my invention, what I claim as new, and desire to secure by Letters Patent, is—

A toy comprising a body, a detachable slot-
ted or recessed cap or cover fitted to said body,
guide-wires connected with said body and hav-
ing balls adapted to slide along said wires, and
5 a roller journaled in said recess and provided
with springs having their free extremities
adapted to work in said recess and success-
ively penetrate the wall thereof to project said

balls along said wires, substantially as and for
the purposes set forth. 10

In witness whereof I have hereunto set my
hand in presence of two witnesses.

CARL JOHANN JÜRGEN BUSACKER.

Witnesses:

HEINR. BLEYER,
N. SELEN.