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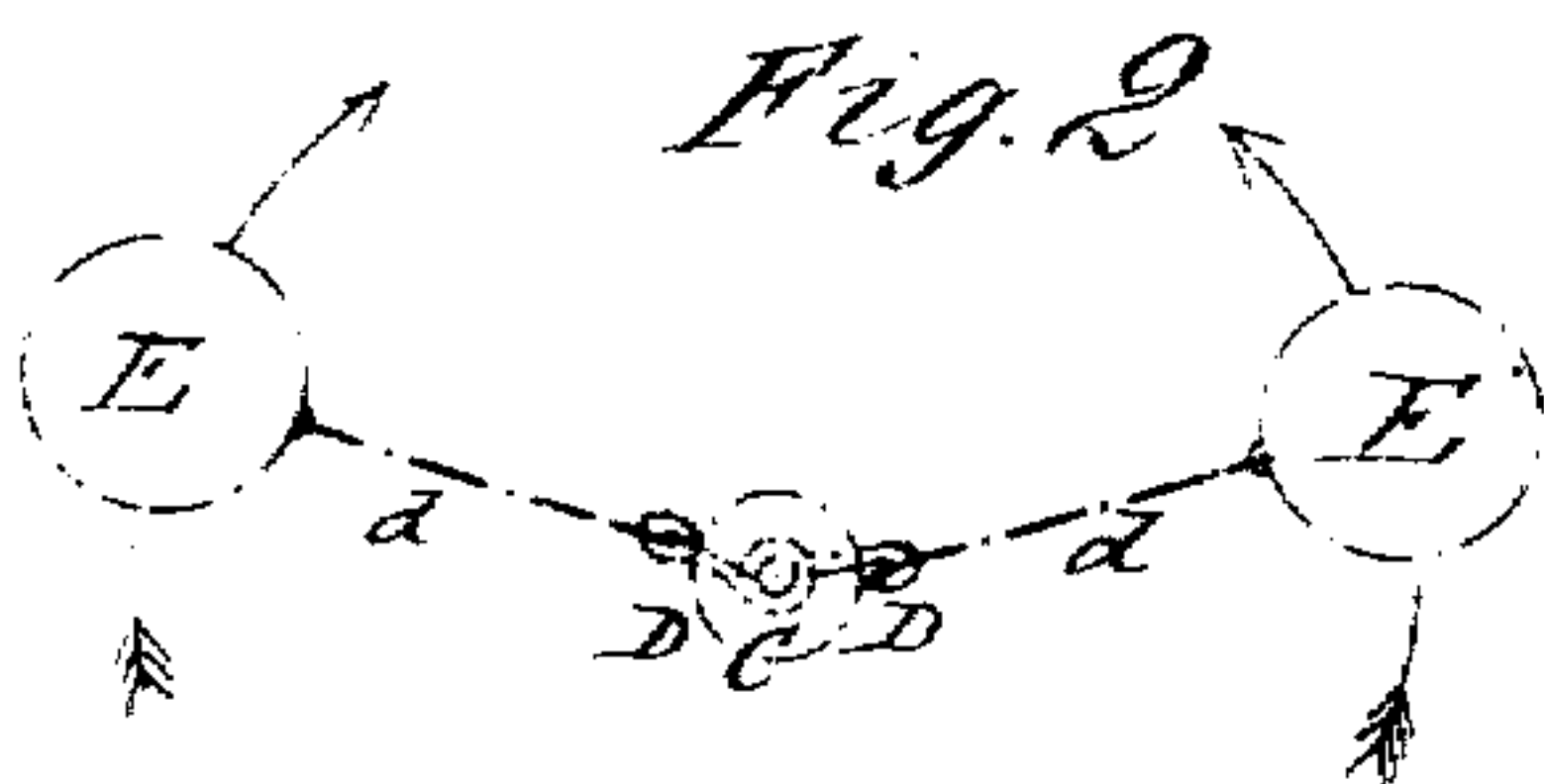
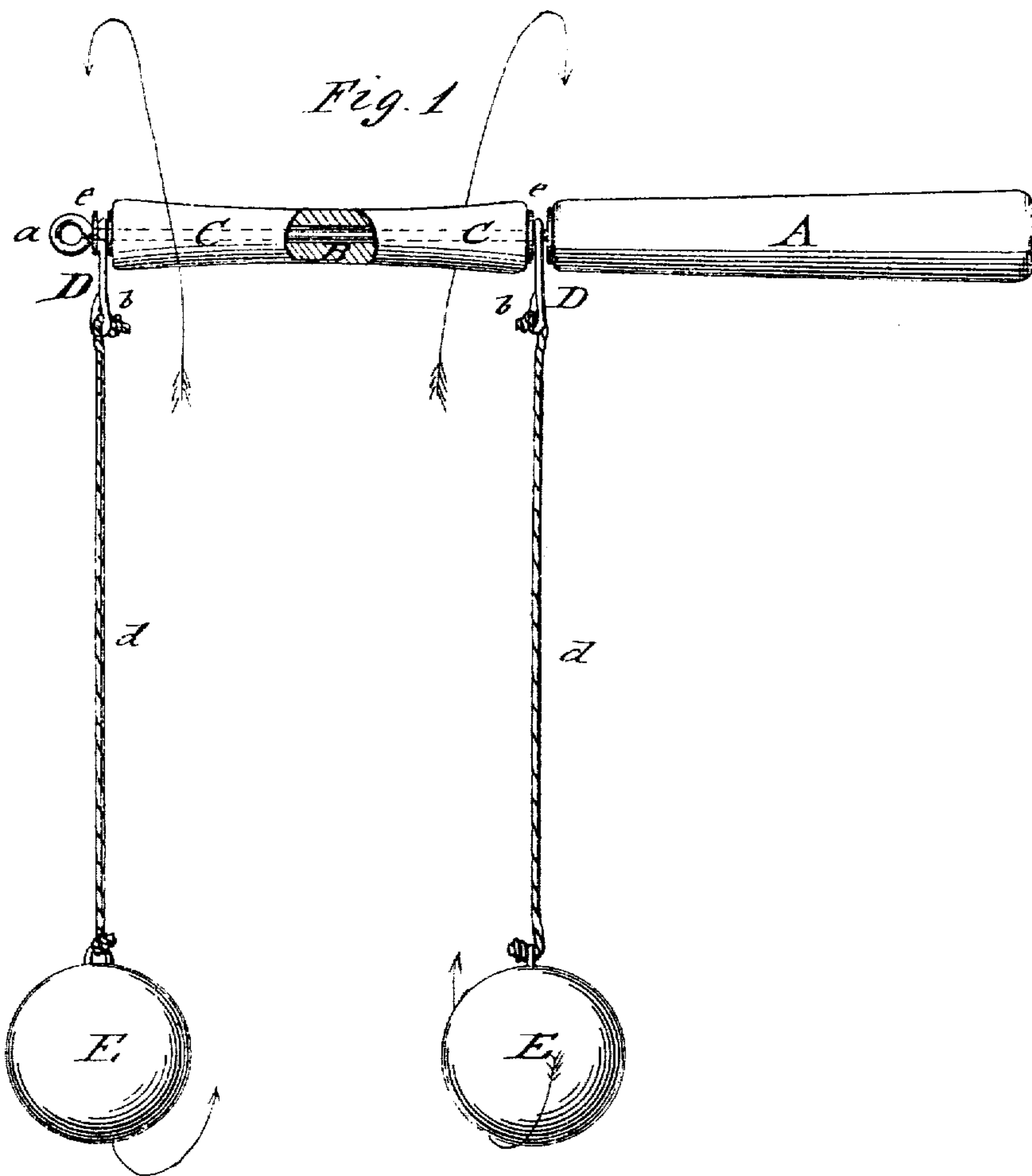
139,533

A. R. BATCHELDER.

Toys.

No. 139,533.

Patented June 3, 1873.



Witnesses:

A. W. Humphreys
Sedgwick

Inventor:

A. R. Batchelder
Per *[Signature]*
Attorneys.

UNITED STATES PATENT OFFICE.

ALBERT R. BATCHELDER, OF NEWBURYPORT, MASSACHUSETTS.

IMPROVEMENT IN TOYS.

Specification forming part of Letters Patent No. **139,533**, dated June 3, 1873; application filed March 22, 1873.

To all whom it may concern:

Be it known that I, ALBERT R. BATCHELDER, of Newburyport, in the county of Essex and State of Massachusetts, have invented a new and Improved Toy, of which the following is a specification:

In the accompanying drawing, Figure 1 represents a side view of my toy, partly in section; and Fig. 2, a diagram, indicating the motion of the balls in opposite direction.

Similar letters of reference indicate corresponding parts.

My invention is an improvement upon the toy for which Letters Patent were granted to E. L. Morris, June 25, 1872, No. 128,239. The improvement consists mainly in suspending balls from the handle by flexible cords or strings. The object is to increase the difficulty of operating the toy, and to enable a series of beautiful parallel curves to be described about the handle in various planes. Thus the ingenuity and patience of the operator are more highly taxed, and the enjoyment consequent upon success, as well as upon the production of new curves or movements, proportionally increased. Balls of varying sizes or colors may be likewise employed. The detachment of them may be readily effected.

In the drawing, A represents the handle, of wood or other suitable material, to which is rigidly attached the wire rod B, with eye *a* at end thereof. A wooden piece, C, with a cylin-

drical hole, is placed on wire rod B so as to turn freely thereon. Wire hooks D, with eyes *b*, are placed at both ends of piece C, the upper eyes embracing rod B, the other having attached strings *d*, which carry at their ends the balls E, also of wood or other material. Tin washers *e* are placed at both sides of hooks D, to reduce friction and prevent the contact with the wooden parts. Eye *a* of rod B prevents the slipping out of the washers.

To operate the toy, take the handle in the right hand; hold the ball nearest to it in the left hand; produce, by a motion of the hand, the revolving of the ball at the end of the wire rod toward the left; throw, then, the other ball toward the right, keeping the right hand in motion, and the balls will revolve rapidly in opposite directions, as indicated by the arrows in Figs. 1 and 2.

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

The toy formed of the balls E E, flexible cords or strings *d d*, wire hooks D, revolving piece C, rod *a*, and handle A, all constructed and arranged as and for the purposes specified.

ALBERT RUSSELL BATCHELDER.

Witnesses:

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