J. G. MOULTON.

FLYING-TOP.

No. 175,731. Patented April 4, 1876.

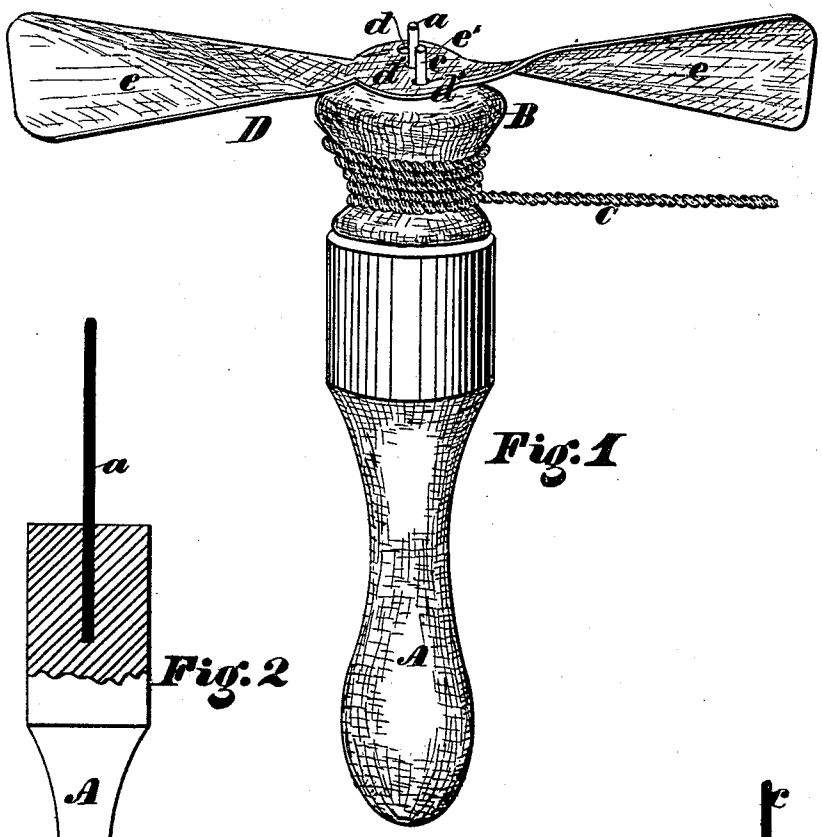


Fig. 1




Fig. 2

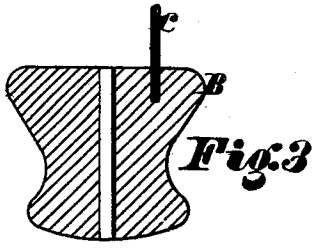


Fig. 3

Witnesses

Saml. J. VanStavoren

K. Mc Leighe

By

Inventor

James G. Moulton

Connolly Bros., Attorneys

# UNITED STATES PATENT OFFICE

JAMES G. MOULTON, OF PHILADELPHIA, PENNSYLVANIA.

## IMPROVEMENT IN FLYING TOPS.

Specification forming part of Letters Patent No. **175,731**, dated April 4, 1876; application filed February 9, 1876.

*To all whom it may concern:*

Be it known that I, JAMES G. MOULTON, of Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented a certain new and useful Toy; 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 pertains to make and use it, reference being had to the accompanying drawings, which form part of this specification, in which—

Figure 1 is a perspective of my invention. Fig. 2 is a broken section of the handle, and Fig. 3 is a vertical section of the pulley.

The object of my invention is to provide a toy in the nature of a top, which, when spun by a cord and handle in substantially the usual manner, will ascend a very considerable distance with great velocity.

My invention consists of a device composed of two or more vanes or wings set at an angle, resembling the vanes of a windmill or blades of a propeller, said device (which I term the "flier") being provided with two openings—one in the center and the other off the center—for the reception of two pins projecting vertically from a pulley, which revolves on a spindle projecting upwardly from a handle.

Referring to the accompanying drawing, A designates a handle of any suitable construction, from which projects a spindle or rod, *a*. B is a loose pulley revolving on said handle, motion being communicated in the manner usually employed for tops by drawing rapidly a cord, C, wound around said pulley. *c* is a pin, projecting upwardly from the pulley B and passing through an opening, *d*, off the center of the flier D, the rod *a* passing through an opening, *d'*, in the center. *e e* are the wings of the flier, radiating from the center *e'* and set at an angle, as shown.

If desired, three or more wings may be employed; but, as two can be struck from a single piece of sheet metal, I consider the latter number as generally sufficient.

The method of operation is simply as follows: The parts being arranged as shown in Fig. 1, the handle A is grasped with one hand and the free end of the cord C with the other. Now pull the cord suddenly and swiftly, when the pulley will be made to rotate, throwing off the flier, which will ascend with great velocity to a very considerable distance—if skillfully manipulated, as high as a hundred and fifty feet in the air.

What I claim as my invention is—

1. The flier D, having two or more wings, *e e*, and the openings *d* and *d'*, substantially as shown and described.

2. The toy herein described, consisting of the handle A, pulley B, and flier D, constructed and arranged substantially as described, to be operated by means of a cord, C.

In testimony that I claim the foregoing I have hereunto set my hand this 4th day of February, 1876.

JAMES G. MOULTON.

Witnesses:

M. DANL. CONNOLLY,

CHAS. F. VAN HORN.