

S. HASHIMOTO.
AERIAL TOY.
APPLICATION FILED AUG. 18, 1919.

Patented Feb. 24, 1920.

1,332,175.

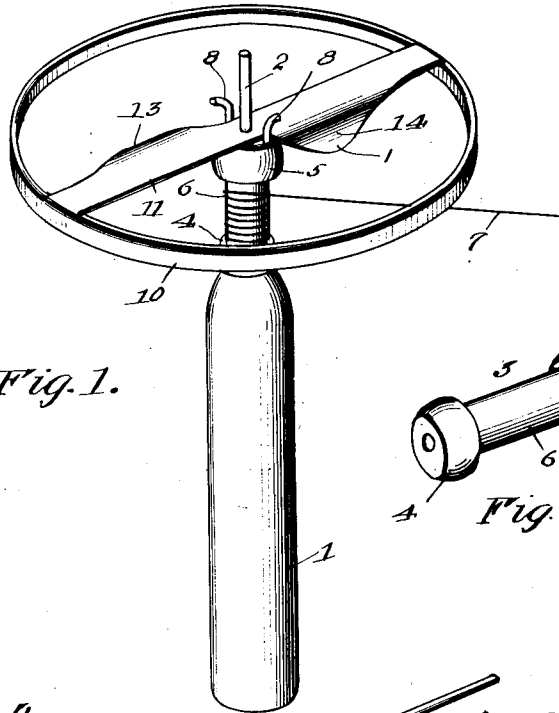


Fig. 1.

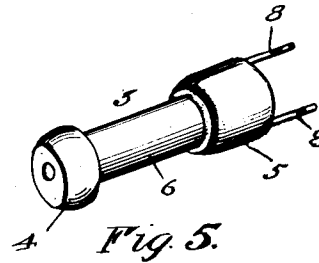


Fig. 5.

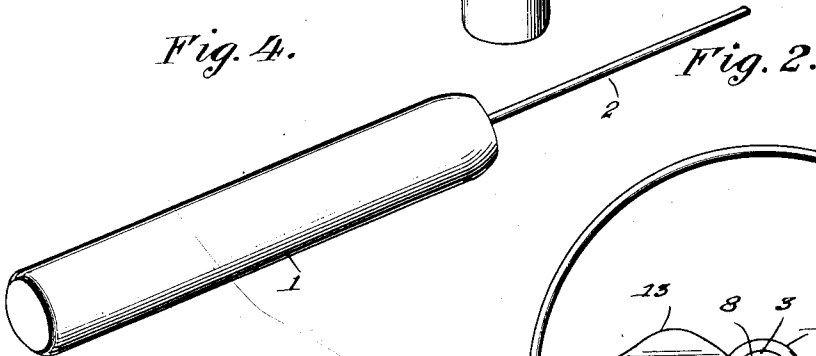
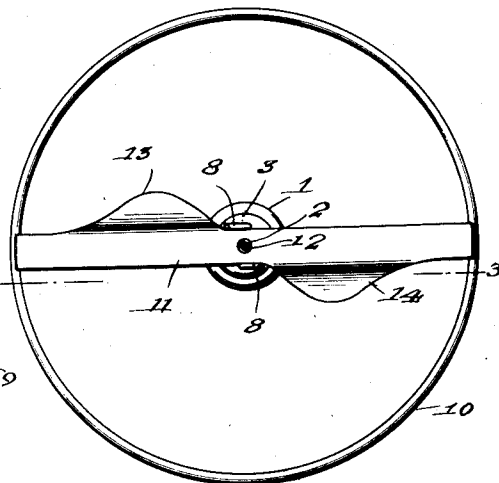


Fig. 2.



Fig. 3.



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AERIAL TOY.

1,332,175.

Specification of Letters Patent.

Patented Feb. 24, 1920.

Application filed August 18, 1919. Serial No. 318,213.

To all whom it may concern:

Be it known that I, SOIOHI HASHIMOTO, a subject of the Emperor of Japan, residing at Yuba City, in the county of Sutter and State of California, have invented new and useful Improvements in Aerial Toys, of which the following is a specification.

The object of my present invention is the provision of a simple, durable and safe aerial toy of the type in which by rapidly rotating a rotary member through the medium of a cord wound thereupon, a flying body may be made to make a flight of considerable height and length.

To the attainment of the foregoing the invention consists in the peculiar and advantageous aerial toy hereinafter described and definitely claimed.

In the accompanying drawings, hereby made a part hereof:

Figure 1 is a perspective of my novel toy complete.

Fig. 2 is a top plan view of the same.

Fig. 3 is a cross-section of the flying body taken in the plane indicated by the line 3—3 of Fig. 2.

Fig. 4 is a detail perspective of the handle.

Fig. 5 is a detail perspective of the rotary member through the medium of which rotary motion is transmitted to the flying body to bring about the flying of the latter.

Similar numerals designate corresponding parts in all of the views of the drawings.

The handle 1 of my novel toy is preferably of wood and carries in fixed relation a metallic stem 2.

Mounted to rotate about the handle stem 2 is the rotary member 3 having lower and upper enlargements 4 and 5 and a portion 6 between said enlargements for the winding of the cord 7. Carried by and extending upwardly from the upper end of the rotary member 6 are pins 8, the upper ends of which are deflected in opposite directions, as shown.

In addition to the handle and the rotary member, my novel toy comprises a flying body best shown in Figs. 2 and 3, and which constitutes an important element thereof. The said flying body comprises a ring 9 of wire, of circular form in cross-section, a circular band 10 greater in width than the diameter of the wire and fixed to the outer side of and surrounding said wire, and a diametrical propeller 11 fixed at its ends to opposite points of the wire 9 and having a

central aperture 12 and also having blades 13 and 14 at opposite sides of the aperture 12 and on opposite side edges of the propeller. Manifestly it is entirely feasible to make the propeller 11 of a strip of sheet-metal and to provide it with a middle portion of a width to rest between the pins 8, and to connect it at its ends to the ring 9 by bending the said ends around the wire of the ring and soldering them thereto. The wire ring 9 serves the important purpose of protecting the flying body against injury when the same falls to the ground or is impelled against a stationary object, and it also serves to prevent the flying body from cutting or otherwise injuring any persons that it may strike. The band 10 is of thin metal, and is designed and adapted to prevent injury to the blades 13 and 14 when the flying body falls to the ground.

In the practical use of my novel toy, the parts are assembled as shown in Fig. 1, and when it is desired to impel the flying body through the air, the cord 7 is quickly drawn off the rotary member. When this is done the flying body will be rotated at a high rate of speed, and in consequence will rise out of engagement with the pins 8 and fly through the air.

Practical experience has demonstrated the fact that by the operation described, the flying body may be driven a considerable distance through the air.

Having described my invention, what I claim and desire to secure by Letters-Patent, is:

An aerial toy comprising a handle having a stem, a rotary member mounted on said stem and adapted to be rotated through the medium of a cord wound thereon and having a reduced intermediate portion and also having upstanding spaced pins with oppositely deflected upper portions and a flying body comprising a ring, a wide band surrounding and fixed to said ring and a diametrical propeller arranged in and fixed at its ends to the ring and having a central aperture to receive said stem and an intermediate portion to rest between said pins and also having blades on its opposite longitudinal edges at opposite sides of its center and arranged to be protected by said band and to rest at opposite sides of the pins.

In testimony whereof I affix my signature.

SOIOHI HASHIMOTO.