No. 811,784. PATENTED FEB. 6, 1906.

L. B. MATTESON.

FLYING TOY.

APPLICATION FILED FEB. 16, 1905.

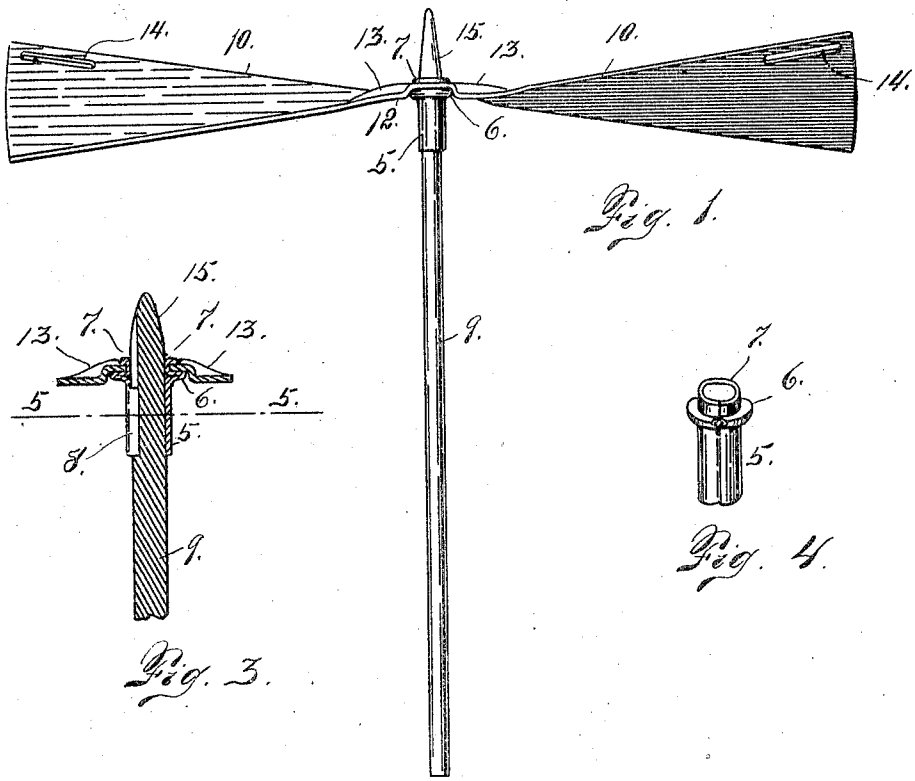

Fig. 1.

Fig. 3.

Fig. 4.

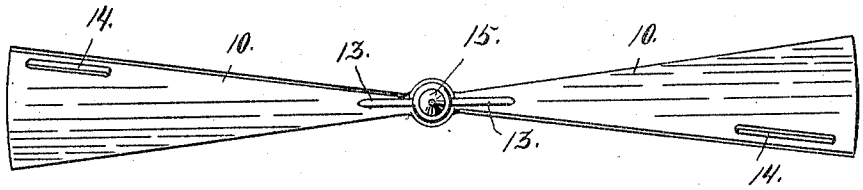

Fig. 2.

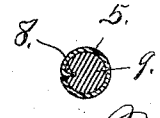

Fig. 5.

L. B. Matteson.
Inventor

by A. B. Brien
Attorney

Witnesses
Otto E. Hoddick.
Dena Nelson.

UNITED STATES PATENT OFFICE.

LYNN B. MATTESON, OF PITTSBURG, PENNSYLVANIA.

FLYING TOY.

No. 811,784. Specification of Letters Patent. Patented Feb. 6, 1906.

Application filed February 16, 1905. Serial No. 245,958.

To all whom it may concern:

Be it known that I, LYNN B. MATTESON, a citizen of the United States, residing at Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Flying Toys; and I do 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 appertains to make and use the same, reference being had to the accompanying drawings, and to the figures of reference marked thereon, which form a part of this specification.

My invention relates to improvements in flying toys of the class set forth in Patents Nos. 693,327 and 712,946 and dated February 11, 1902, and November 4, 1902, respectively.

My present device contains certain novel features of construction over the constructions disclosed in the said patents, all of which will be fully understood by reference to the accompanying drawings, in which is illustrated an embodiment thereof.

In the drawings, Figure 1 is a side view of a flying toy equipped with my improvements. Fig. 2 is a top or plan view of the same. Fig. 3 is a fragmentary section of the device, showing the parts on a larger scale. Fig. 4 is a perspective view in detail of the ferrule. Fig. 5 is a section taken on the line 5 5, Fig. 3.

The same reference characters indicate the same parts in all the views.

Let the numeral 5 designate a ferrule provided near one extremity with a collar 6. The ferrule also has a short projecting part 7, extending beyond the collar in one direction. On the opposite side of the collar the ferrule is provided with an interiorly-projecting tongue 8, adapted to enter the stem 9 when the latter is inserted in the ferrule. My improved flying toy is provided with a pair of inclined wings 10, located on opposite sides of a central part 12, which is provided with an opening to receive the part 7 of the ferrule. This central part is preferably provided with ribs 13, extending on opposite sides of the opening for strengthening purposes. The outer ends of the wings are preferably provided with elongated openings 14, whose function is to produce a whistling sound as the device rotates in the performance of its function. When the parts are assembled, the extremity 15 of the stem, which is pointed, extends beyond the central part a sufficient distance to allow the device to spin or rotate when its pointed portion 15 engages any flat surface, as the ceiling or a wall. The point 15 is therefore of greater length than the vertical depth of the wings in order to permit the spinning function without the engagement of the wings with the surface which the point engages.

The manner of assembling the parts is as follows: The central portion 12 of the device is passed over the part 7 of the ferrule, after which the part 7 is upset or bent downwardly upon the central part of the device, as shown in Fig. 3, whereby the winged portion of the device is held securely in place. In order to further secure the device in place on the ferrule, its central portion on opposite sides of the webs 13 is bent downwardly to engage the shoulder 6. The stem 9, with the sharpened point 15, is then inserted. The tongue 8 indents this stem, whereby the latter is prevented from turning independently of the device.

In operating the device the stem below the wings is placed between the two hands of the user, and as the hands are moved in opposite directions the device is given a rotary movement, whereby it is caused to ascend by virtue of the inclination of the wings 10. As soon as the point 15 comes in contact with the surface the upward movement of the device ceases, but its rotary action continues, causing it to spin like a top until it has exhausted itself.

Having thus described my invention, what I claim is—

1. In a device of the class described, the combination of a ferrule provided with a collar near one extremity, the ferrule having an interiorly-projecting tongue, a winged part having a central apertured portion adapted to receive the shorter part of the ferrule and engage the said collar, the shorter part of the ferrule being bent down on the central part of the winged portion to hold the latter in place, and a stem having a pointed extremity, the stem being inserted in the ferrule and its pointed extremity projecting beyond the winged portion sufficiently to allow the device to spin upon a surface, substantially as described.

2. In a toy of the class described, the combination of a winged part having a central portion provided with strengthening-webs extending outwardly from the opening, a ferrule having a collar engaged by the central

part of the winged portion, the ferrule being upset or bent downwardly on the winged portion to hold the latter in place, the central part of the winged portion being also bent downwardly upon the collar, and an operating-stem inserted in the ferrule for the purpose set forth.

3. In a device of the class described, the combination of a ferrule provided with a collar near one extremity, the ferrule having an interiorly-projecting tongue, a winged part having a central apertured portion adapted to receive the shorter part of the ferrule and engage the said collar, the shorter part of the ferrule being bent down on the central part of the winged portion to hold the latter in place, and a stem connected with the ferrule for the purpose set forth.

In testimony whereof I affix my signature in presence of two witnesses.

LYNN B. MATTESON.

Witnesses:

D. F. McKEE,

WILLIAM ROBINSON.