A. J. NUSLY, JR.

TOY.

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903,879.

Patented Nov. 17, 1908.

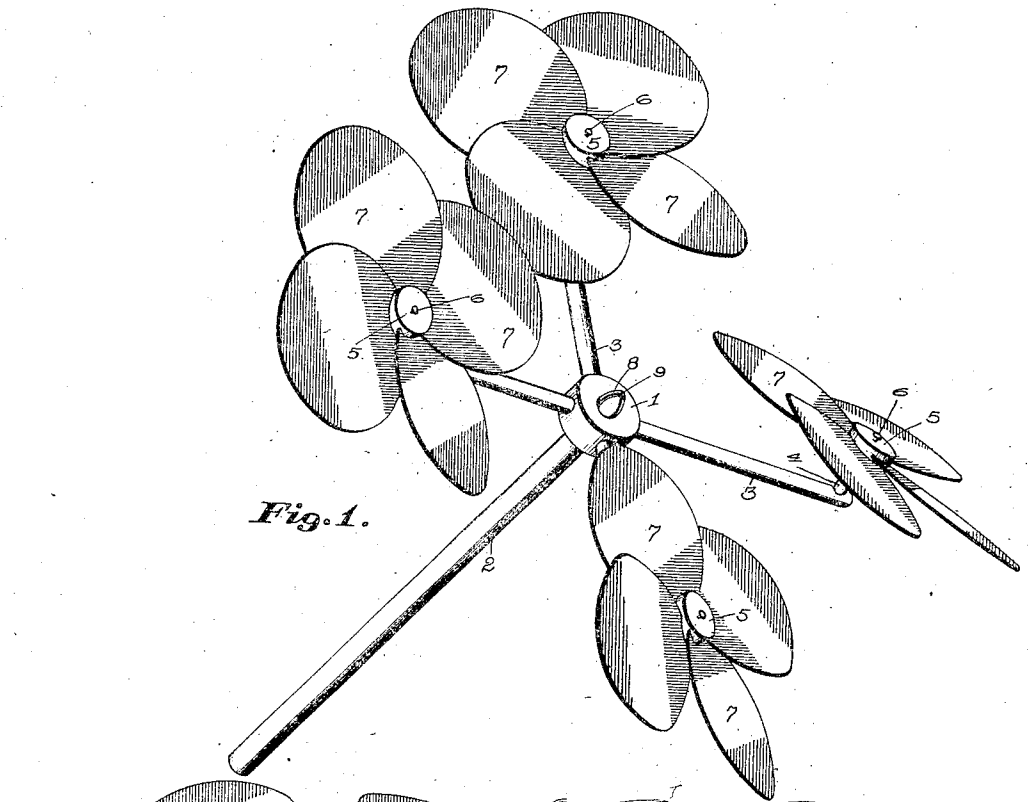


Fig. 1.

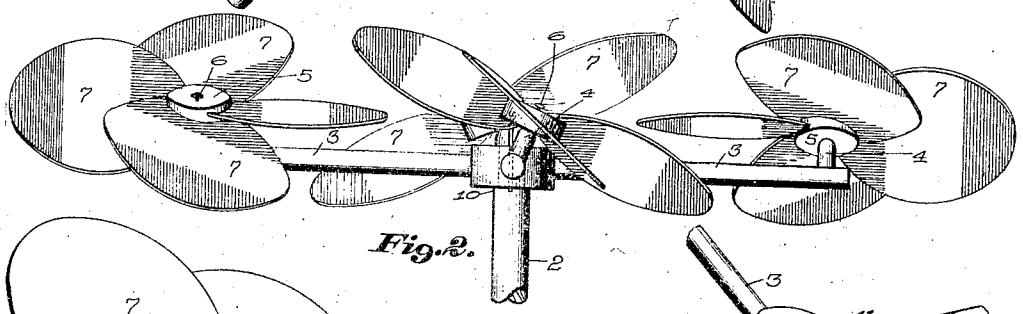


Fig. 2.

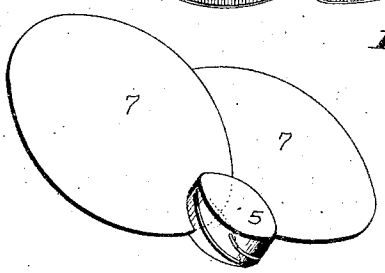


Fig. 4.

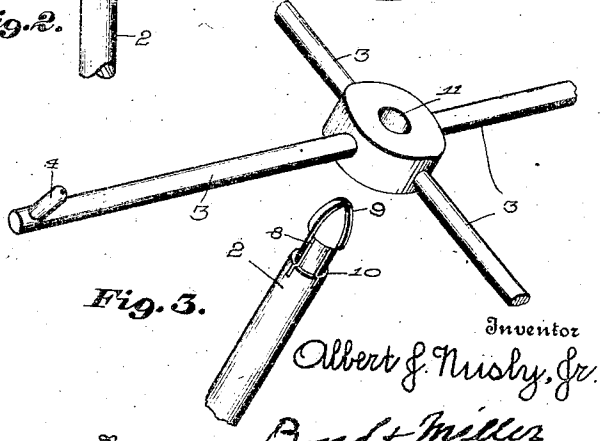


Fig. 3.

Witnesses

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UNITED STATES PATENT OFFICE.

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TOY.

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To all whom it may concern:

Be it known that I, ALBERT J. NUSLY, Jr., a citizen of the United States, residing at Canton, in the county of Stark and State of Ohio, have invented certain new and useful Improvements in Toys; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, making a part of this specification, and to the numerals and figures of reference marked thereon, in which—

Figure 1 is a perspective view showing the different parts of the toy properly connected together. Fig. 2 is an edge view. Fig. 3 is a view showing the hub, one of the arms in full and a portion of the handle and the handle detached from the hub. Fig. 4 is a view showing one of the blade disks or heads showing two blades properly connected.

The present invention has relation to toys and it consists in the novel arrangement hereinafter described, and particularly pointed out in the claims.

Similar numerals of reference indicate corresponding parts in all the figures of the drawing.

In the accompanying drawing, 1 represents the hub of the wheel proper, which hub is loosely mounted upon the handle 2 and detachably connected thereto. To the hub 1 are attached the radial arms or spokes 3, which arms or spokes are preferably formed of equal lengths. To the outer ends of the radial arms or spokes 3 are connected the short posts 4, which posts are located at an angle to the axis of the hub. Upon the short posts 4 are rotatably mounted the blade carrying disks 5, said blade carrying disks being connected to the posts 4 by means of the pins 6 or their equivalents, which pins are connected to the post 4 in any convenient and well known manner. The object and purpose of providing the pins 6 and locating the pins through the disks 5 is to reduce the friction as between the posts 4 and the disks 5. To the disks 5 are connected the blades 7, which blades are located at angles to each other, and all of said blades located at an angle to the axis of the hub. To each disk 5 are connected four blades 7, but this number may be increased or decreased as desired, but the various hubs 5 should all be provided with the same number of blades, say four, which four blades are so attached to the disks 5 as to constitute an individual wind wheel, which wind wheel is located at an angle to the axis of the hub 1 other than a right angle, that is to say each individual wheel is inclined to a perpendicular line at right angles to the plane of the hub 1 and the arms 3.

It will be understood that it is desirable to provide means for detachably connecting the hub 1 together with the different parts carried thereby, and in order to provide for detachably connecting the handle to the hub 1, said handle is provided with the slits or kerfs 8 located at right angles to each other. The extreme end of the handle 2 is provided with the conical head 9, which conical head is for the purpose of holding the hub 1 together with the different parts carried thereby, which hub is located between the annular shoulder 10 and said head.

It will be understood that by providing the kerfs 9 the segmental members of the head 9 can be compressed as they are passed through the aperture 11 formed in the hub 1, and after said segmental members have fully passed through the aperture 9 they will expand and hold the hub 1 in such a manner that said hub together with the different parts carried thereby will rotate upon the handle 2.

It will be understood that as the toy proper is moved through the air a rotary motion will be imparted to all of the disks 5 and their blades 7 or in other words a rotary or axial movement will be imparted to each individual wheel made up of the disks 5 and the blade 7, and also a rotary motion will be imparted to the hub 1, said hub rotating upon the handle 2. For the purpose of giving a pleasing appearance or in other words blending different colors as the individual wind wheels rotate axially and in a planetary manner with reference to the hub 1 the blades 7 are provided with different colors, say red, white and blue or any other combination of colors desired.

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

1. In a toy of the class described, a hub and a handle therefor, said hub loosely mounted upon said handle, arms secured to the hub, said arms provided with posts, said posts located at an angle to the axis of the hub, disks rotatably mounted upon the posts and said disks provided with blades located at an angle to the axis of the disks.

2. In a toy of the class described, a rota-

table hub arms secured to said hub and rotatable therewith, posts secured to the arms, disks pivotally mounted upon the posts, blades carried by the disks, said blades located at an angle to the axes of the disks and the disks and blades revoluble around the hub.

3. In a toy of the class described the combination of a handle provided with a head composed of compressible, segmental members, a rotatable hub loosely mounted upon the head of said handle, radial arms secured to said hub and rotatable therewith, posts secured to said arms, said posts being at an oblique angle with the plane of said radial arms, disks pivotally mounted upon the posts, blades carried by the disks and said blades located at an angle to the axes of the disks, whereby each of said disks with the blades carried thereby may be revolved independently by a current of air and whereby the said hub and radial arms will be rotated by reason of the angular position of the posts with reference to the plane of the radial arms.

In testimony that I claim the above, I have hereunto subscribed my name in the presence of two witnesses.

ALBERT J. NUSLY, JR.

Witnesses:

WILLIAM H. MILLER,

JOHN H. SPONSELLY.