No. 783,714. PATENTED FEB. 28, 1905.

W. C. WUNDER.

TOY WINDMILL.

APPLICATION FILED NOV. 20, 1903.

Fig. 1.

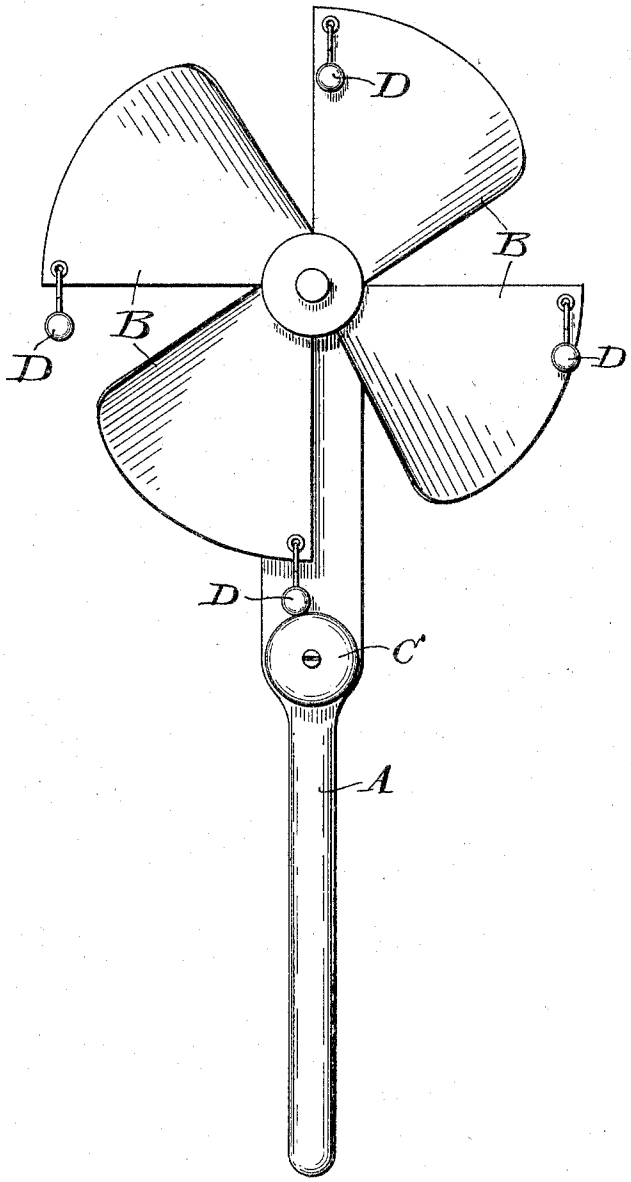
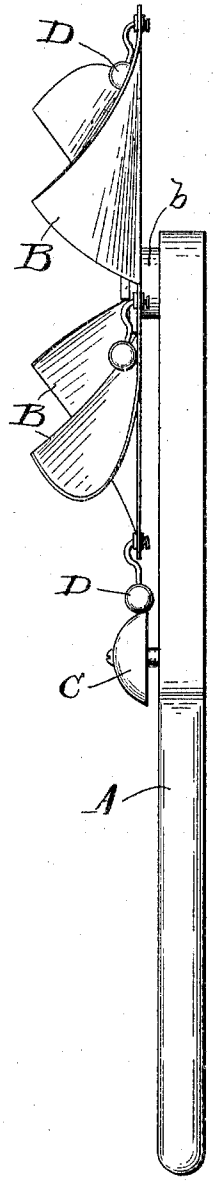


Fig. 2.



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No. 783,714. Patented February 28, 1905.

UNITED STATES PATENT OFFICE.

WARREN C. WUNDER, OF WYNCOTE, PENNSYLVANIA, ASSIGNOR OF ONE-FOURTH TO JAMES M. VANCE KIRK, OF MONTGOMERY COUNTY, PENNSYLVANIA.

TOY WINDMILL.

SPECIFICATION forming part of Letters Patent No. 783,714, dated February 28, 1905.

Application filed November 20, 1903. Serial No. 181,900.

To all whom it may concern:

Be it known that I, WARREN C. WUNDER, a citizen of the United States, residing at Wyncote, county of Montgomery, and State of Pennsylvania, have invented a new and useful Improvement in Toy Windmills, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, which form a part of this specification.

My invention has for its object certain improvements in that class of toys which are known as "windmills," in which a series of vanes are pivotally attached at or near one end of a bar and a handle or grasping portion formed on the other end. These vanes are in practice generally formed of paper, although sometimes they are formed of metal. With the ordinary toy windmill just described the amusement derived is that of seeing the vanes propelled around by the wind.

The purpose of my invention is in the class of toys just described to give an added amusement.

To that end I combine with such a device a bell placed in such proximity to the vanes that in the revolution of the vanes the bell is operated by clappers attached near the outer edges of the successive vanes as they pass the point of attachment of the bell.

I will now describe my improvement as embodied in the accompanying drawings and then point out the invention in the claims.

In the drawings, Figure 1 is a front view of my improved machine. Fig. 2 is a side view of the same.

A is the upright stick or rod, to the upper end of which is pivotally connected the central hub *b*, having the projecting fan-shaped vanes B. Each vane has one straight side edge extending in a radial direction from the axis of the hub *b* and is thence curved outwardly away from the stick toward the other side edge, the width of each vane gradually increasing from its inner end to its outer end. The lower end of the stick or rod is preferably rounded to form a grasping portion. Secured to the stick or rod A below the hub *b* and at a greater distance therefrom than the length of the vanes is the bell C. Loosely attached to each vane B near its straight side edge and its outer edge is the clapper D. In the revolution of the hub *b* as the successive vanes B pass in proximity to the bell C the clappers D strike the bell in succession.

Having now fully described my invention, what I claim, and desire to protect by Letters Patent, is—

1. As a new article of manufacture, a toy windmill comprising an upright stick or rod, a plurality of fan-shaped vanes pivoted on a horizontal axis on the upper end of said rod, a bell secured to said stick beneath said vanes, and clappers loosely attached to the vanes near their outer edges and adapted to successively strike the bell in the rotation of the vanes, substantially as described.

2. As a new article of manufacture, a toy windmill comprising an upright stick or rod, a plurality of fan-shaped vanes pivoted on a horizontal axis on the upper end of said rod, each vane having one straight side edge extending in a radial direction from its axis of rotation and thence bent outwardly toward its other side edge, the width of each vane gradually increasing from the inner end to the outer end thereof, a bell secured to said stick or rod below said hub and at a greater distance therefrom than the length of the vanes, and a clapper loosely attached to each vane near the corner formed at the junction of its outer edge and straight side edge, substantially as described.

In testimony of which invention I have hereunto set my hand, at Philadelphia, Pennsylvania, on this 11th day of November, 1903.

WARREN C. WUNDER.

Witnesses:
M. F. ELLIS,
M. M. HAMILTON.