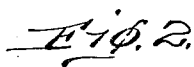


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UNITED STATES PATENT OFFICE.

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TOY.

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To all whom it may concern:

Be it known that we, BENA BIRD EXLINE, MARCUS P. EXLINE, and ALBERT S. EXLINE, citizens of the United States, residing at
5 Dallas, in the county of Dallas and State of Texas, have invented certain new and useful Improvements in Toys; and we do hereby declare the following to be a full, clear, and exact description of the invention,
10 such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to toys, and has for an object to provide a toy adapted to be
15 operated by the wind and to produce a sound while being operated.

A further object of the invention is to provide a toy constructed in the form of a wind mill with means rotated by the mill
20 and adapted to produce a sound as the mill is being rotated.

With these and other objects in view, the invention comprises certain novel constructions, combinations and arrangements of
25 parts, as will be hereinafter more fully described and claimed.

Figure 1 is a perspective view of the rear side of the improved toy. Fig. 2 is a fragmentary enlarged, transverse, sectional view
30 of the corrugated disk.

The drawings especially Fig. 1 shows a mill of any ordinary form, as, for instance, a wind mill folded from a square sheet of paper in the manner ordinarily employed
35 by children in making toy wind mills, but it is understood that the mill which forms the subject of this application is not restricted to such construction, but includes and comprehends a wind mill of any form
40 and construction.

The wind mill 1 is journaled upon a spindle 2 having a shoulder 3 formed thereon to prevent longitudinal displacement of the mill, and the spindle is provided with any
45 approved means for being grasped by the hand, here shown as the handle 4, but it is understood that such specific handle does not form any essential part of the present invention, as any means for holding the
50 spindle is comprehended in the present invention.

Upon the rear side of the wind mill is a disk 5 secured in any approved manner, as by paste, glue, cement, or other means, such
55 disk having a roughened surface and constructed of any approved material, as cloth ordinarily employed for bookbinding, a metal plate corrugated or otherwise roughened upon its surface, wire gauze, or any
60 fabric or material presenting a roughened surface.

Upon the spindle 2 are secured resilient or bendable arms 6 carrying upon their extremities points 7 of any approved or convenient material and construction, adapted
65 and positioned to engage the roughened surface of the disk 5 as the disk is being rotated by the wind mill. This operation with the rapid rotation of the mill and the passage of
70 the roughened surface in contact with the points will produce atmospheric vibrations producing sounds varying as the rapidity of rotation of the mill varies, and in a stiff
75 breeze the rapid rotation of the mill will produce a very high and loud note, while in a breeze of less velocity a note lower in the scale and of less volume will be produced.

While the preferred form is here specifically shown, it is to be understood that the present invention comprehends any means
80 rotated by wind power whereby a roughened or corrugated surface is caused to move rapidly in contact with engaging points, producing thereby atmospheric vibrations and causing a sound.

What we claim is:

1. A toy comprising a wind rotated wheel, a roughened plate carried by the wheel, and points positioned to bear upon the rough-
85 ened plate.

2. A toy comprising a handle, a wind wheel journaled upon the handle, a rough-
90 ened disk carried by the wind wheel, and points carried by the handle positioned to bear upon the roughened disk.

3. A toy comprising a handle member, a wind wheel journaled concentrically of the handle member, resilient arms carried by the handle member, a roughened disk carried by the wind wheel, and points carried by the
100 arms bearing upon the roughened disk.

4. In a toy, a wind wheel, a roughened

disk secured to the rear side of and concentric with the wind wheel, a handle member forming the axis of the wheel, and points carried by the handle member and bearing
5 upon the roughened disk.

5. A toy comprising a wind wheel composed of a flexible sheet having its points folded over, a roughened disk carried upon the rear side of the wind wheel and concentric therewith, a handle member disposed at
10 the axis of the wheel, and points carried by

the handle member positioned to bear upon the roughened disk.

In testimony whereof we affix our signatures in presence of two witnesses.

BENA BIRD EXLINE.
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ALBERT S. EXLINE.

Witnesses:

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