(No Model.)

W. R. PARK.

TOY.

No. 480,619. Patented Aug. 9, 1892.

FIG. 1

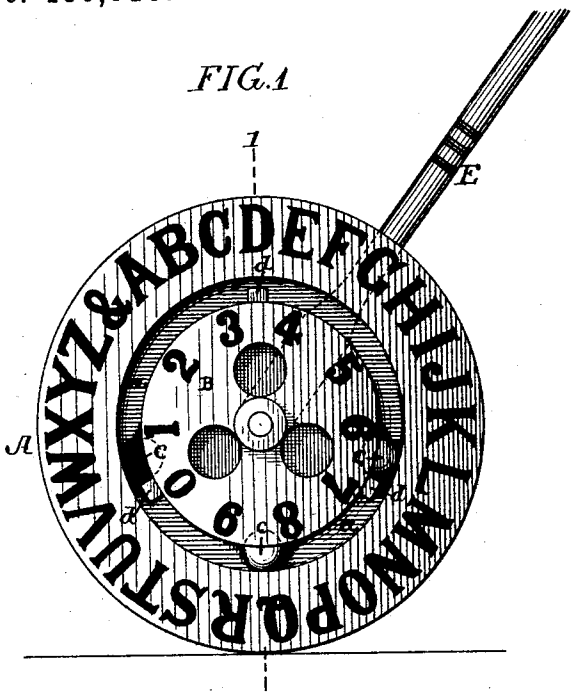


FIG. 2.

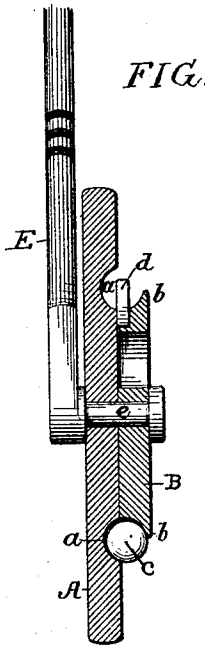


FIG. 3.

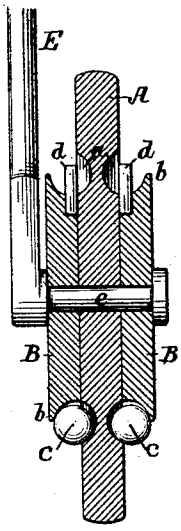


FIG. 4.

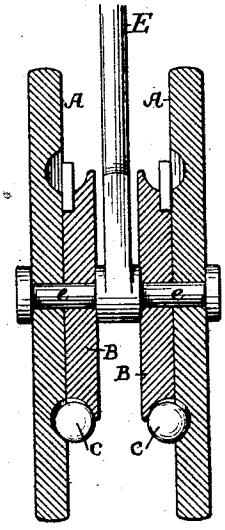


FIG. 5.

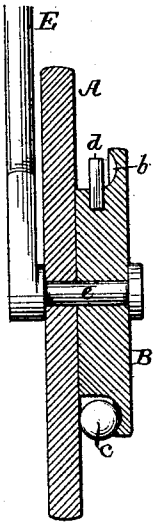


FIG. 6.

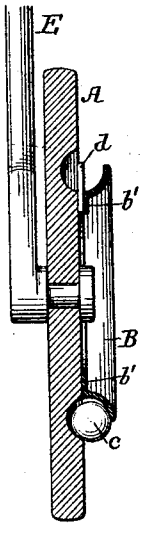


FIG. 7.

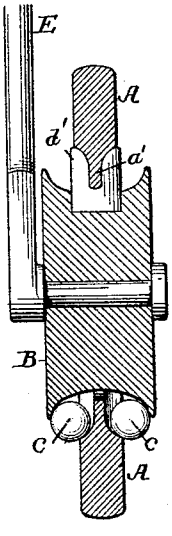


FIG. 8.

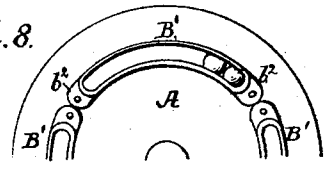
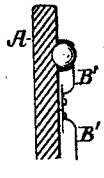


FIG. 9.



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Alex. Barkoff

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William R. Park
by his Attorneys
Howson & Howson

THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

WILLIAM R. PARK, OF PHILADELPHIA, PENNSYLVANIA.

TOY.

SPECIFICATION forming part of Letters Patent No. 480,619, dated August 9, 1892.

Application filed May 12, 1892. Serial No. 432,783. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM R. PARK, a citizen of the United States, and a resident of Philadelphia, Pennsylvania, have invented an Improved Toy, of which the following is a specification.

The object of my invention is to construct a wheeled toy which can be made cheaply and strong and which will be attractive to a child.

In the accompanying drawings, Figure 1 is a side view of my improved toy. Fig. 2 is a section on the line 1 2, Fig. 1; and Figs. 3, 4, 5, 6, 7, 8, and 9 are views illustrating the toy duplicated with the parts slightly modified.

A is the wheel, preferably made of wood, having an annular groove *a* cut in its face, as shown in Figs. 1 and 2, and secured to this wheel is a disk B, undercut at its edge, forming an annular flange *b*, which when the disk is secured in proper position to the wheel A will form a three-quarter groove. In this groove are inserted balls *c*. I use by preference bright-colored marbles, and I preferably arrange stops *d* at intervals in the groove-making compartments. These stops also carry the balls up to the highest point, the balls falling by their own weight. I may provide two or more stops; but I preferably provide three stops, as shown in Fig. 1.

In Fig. 1 I have shown a single ball between each stop; but two or even three balls may be placed within the groove, depending upon the character of the toy.

E is a handle having a stud *e*, upon which is mounted the wheel A. The child pushes the wheel forward by this handle, and as the wheel revolves the stop *d* lifts the balls, as shown in Fig. 1, until they reach the highest point, when they fall, striking the preceding stop and making sufficient noise to amuse the child, and where two balls are used the second ball will strike the first one.

The wheel and disk may be ornamented in any suitable manner, and in Fig. 1 I have shown the letters of the alphabet arranged upon the face of the wheel and the numerals upon the disk; but other ornamentation may be placed upon the toy without departing from my invention.

In Fig. 3 I have shown a single wheel with a disk B on each side, forming a groove with two sets of balls.

In Fig. 4 I have shown two wheels A A, each having secured to it a disk B and having a handle E mounted between the two wheels.

In Fig. 5 I have shown the groove for the balls cut wholly within the disk B, the wheel A being plain.

In Fig. 6 I have shown the disk B made of sheet metal struck up to form a portion of the groove and having a flange b', by which it is secured to the wheel A.

In Figs. 8 and 9 I have shown segments B′, preferably three in number, these segments being struck up from sheet metal so as to form a recess for the reception of the balls. The segments are open at the side, so to expose the balls, and have lips b^2 at each end, by which they are secured to the wheel A. The wheel may also be made of metal, either struck up or cast, without departing from my invention.

In Fig. 7 I have shown a double toy, being a modification of that shown in Fig. 3, in which a hub is so shaped as to form the ball-grooves, and the wheel A is in the form of a deep rim having an annular tongue a', dividing the grooved hub into two sections, in which the balls rest. The stops d' not only form stops for the balls, but also act as spokes to secure the rim to the hub.

I claim as my invention—

1. The combination, in a wheeled toy, of a handle and a wheel, said wheel having on its face one or more channels with balls adapted to said channels, substantially as described.

2. The combination of the wheel, the handle, a stud on said handle upon which revolves the wheel, and sectional grooves in the face of said wheel with balls adapted to said grooves, substantially as described.

3. The combination of the wheel, the handle, a stud upon said handle upon which the wheel revolves, an annular groove formed in the face of the wheel, a disk having an undercut periphery forming with the groove in the wheel a ballway, and balls adapted to said way with one or more partitions forming com-

partments for said balls, substantially as described.

4. The combination of the wheel, a handle, a stud on said handle upon which the wheel revolves, an annular groove on each side of said wheel, and undercut disks secured to each side of the wheel, the undercut portions meshing with the grooves and forming a channel or way, balls adapted to said way, and stops in said way to limit the movements of said balls, substantially as described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

WILLIAM R. PARK.

Witnesses:

WILLIAM D. CONNER,

HENRY HOWSON.