

No. 849,280.

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W. STEVENS.

TOY.

APPLICATION FILED MAY 14, 1906.

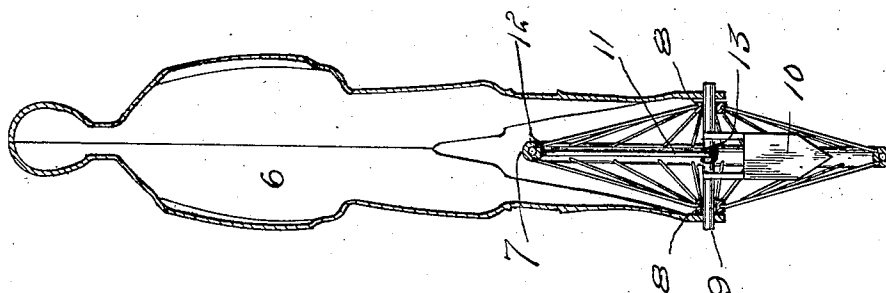


Fig. 2.

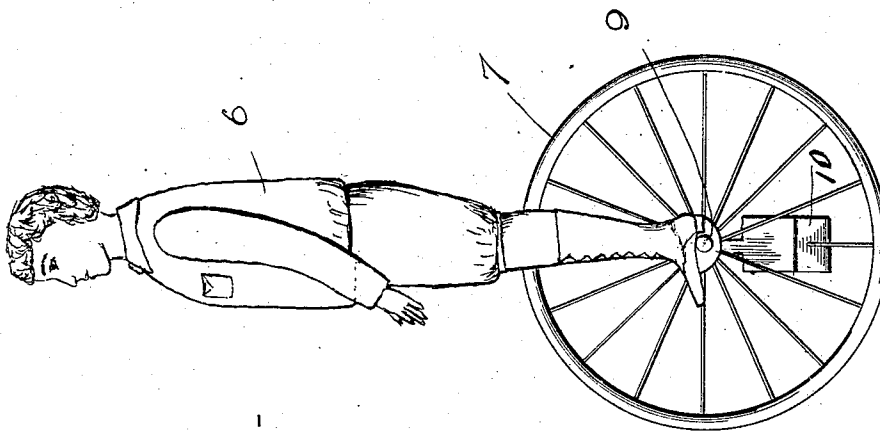


Fig. 1.

Witnesses

J. C. Simpson.
A. B. MacFar.

Inventor

William Stevens

By

Charles H. H. H.

Attorneys

UNITED STATES PATENT OFFICE.

WILLIAM STEVENS, OF KEOWN, PENNSYLVANIA.

TOY.

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Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, WILLIAM STEVENS, a citizen of the United States, residing at Keown, in the county of Allegheny, State of Pennsylvania, have invented certain new and useful Improvements in Toys; and I do hereby 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.

This invention relates to mechanical toys; and the object thereof is to provide a simple, inexpensive, and durably-constructed device of that nature.

With this end in view the invention consists in the construction, combination, and arrangement of parts to be hereinafter fully described, pointed out in the claims, and illustrated in the accompanying drawings, in which—

Figure 1 is a front view of a mechanical toy constructed in accordance with this invention. Fig. 2 is a vertical section of the same.

Referring to the drawings, the toy will be seen to represent a wheel-rider and to consist of the hollow rider 6, formed of tin or any other light metal, the wheel 7, the spokes of which radiate from the hub 8 of the wheel and converge in the manner of the spokes of bicycle-wheels. The axle 9 of the wheel passes loosely through hub 8 and extends beyond said hub on each side thereof, as shown in Fig. 1, to provide a support for the feet of the rider. Attached rigidly to the axle of the wheel is a balancing-weight 10, located directly beneath the rider 6 and between the spokes.

To rotate wheel 7, there is provided a spring 11, one end of which is fastened to the wheel-rim, as at 12, while the other end is fastened to the axle, as at 13. While the term "spring" is employed in connection with this member, it will be understood that the spring may be metal and of the coil type or may be merely a short section or strap of rubber or other elastic material, the ends of which are attached as above referred to and which is adapted when the wheel is rotated to be wound around the hub thereof.

In operating the toy the spring 11 is wound upon the axle by rotating the wheel 7, to the rim of which the upper end of the

spring is secured. The toy is then placed upon a smooth surface and positively started by being moved by hand a short distance thereover, when said wheel will continue its rotation, owing to the tension of the spring, which latter is of course gradually unwound during such rotation of the wheel, the movement of the wheel at once ceasing with the complete unwinding of the spring. During such rotation of the wheel the rider will retain its vertical position through the action of the balance-weight.

It is to be understood from the foregoing that while the wheel 7 is capable of rotation upon its axle the feet of the rider, the balance-weight, and one end of the spring are rigidly secured to the axle by solder or any other preferred means, the opposite end of the spring being in like manner secured to the under face of the wheel-rim.

What is claimed is—

1. A mechanical toy comprising a wheel provided with a hub and converging spokes; an axle loosely passing through said hub and extending beyond said hub on both sides thereof, a rider for said wheel having one foot attached to each axle extension, a balance-weight attached to said axle and located between the spokes directly opposite the rider; and means for positively turning said wheel, said means being connected at one end to the rim of said wheel and at the other end to said axle.

2. A mechanical toy comprising a wheel provided with a hub and converging spokes; an axle loosely passing through said hub, and extending beyond said hub on both sides thereof; a rider for said wheel having one foot secured to each axle extension, a balance-weight secured to said axle and located between the spokes directly opposite the rider; and a spring for positively rotating said wheel having one end fastened to the rim thereof, and the other end fastened to said axle, said spring being wound by rotating said wheel relatively to said axle and rider.

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

WILLIAM STEVENS.

Witnesses:

ROBT. G. KEOWN,
DELLA KEOWN.