Aug. 28, 1923. 1,466,183

C. C. MILLIKEN

WHEELED TOY

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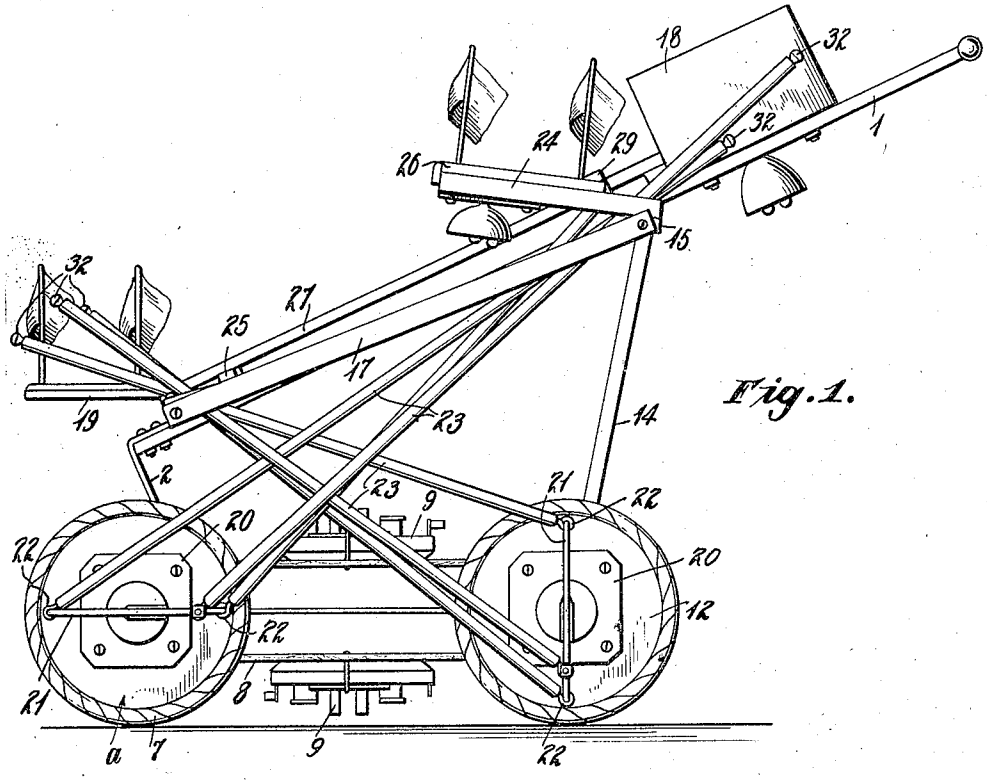


Fig. 1.

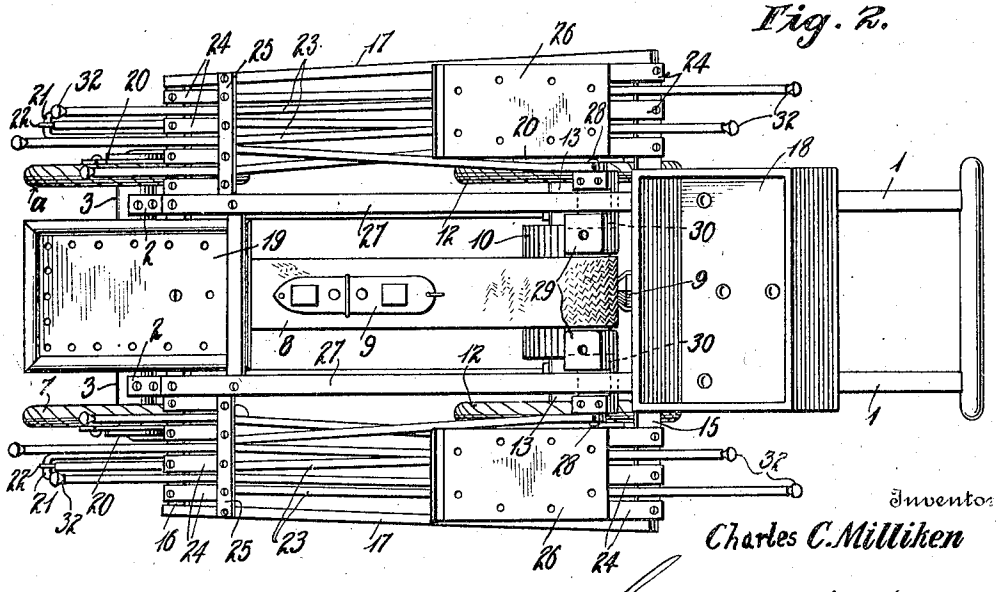


Fig. 2.

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Fig. 3.

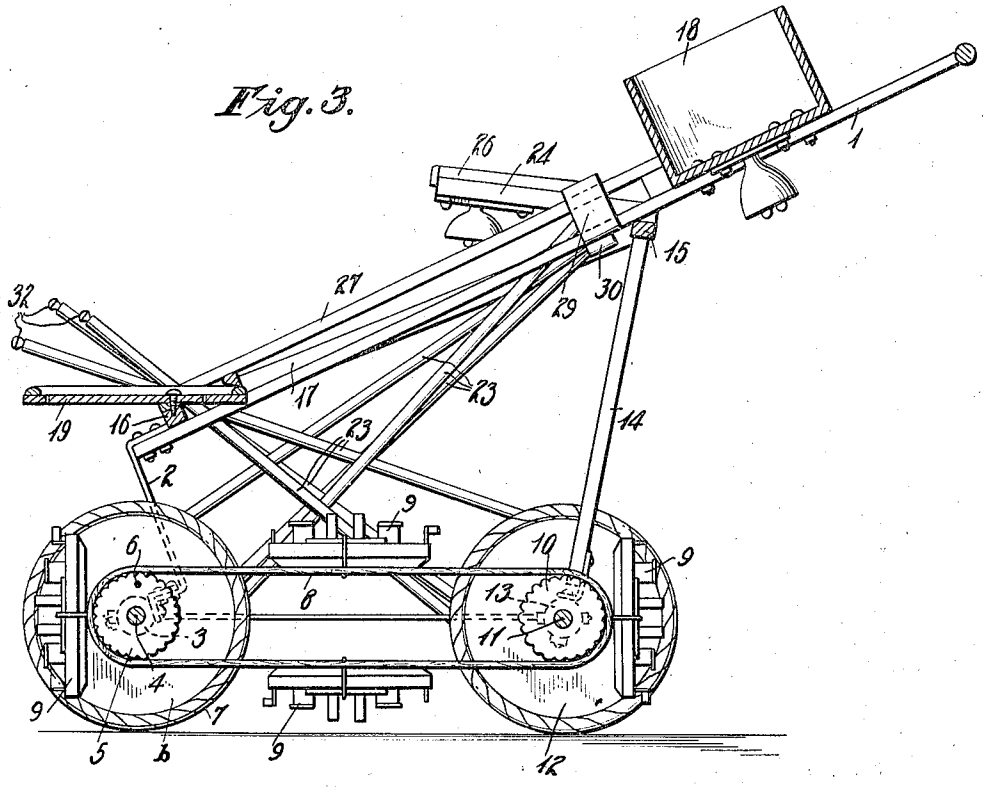


Fig. 4.

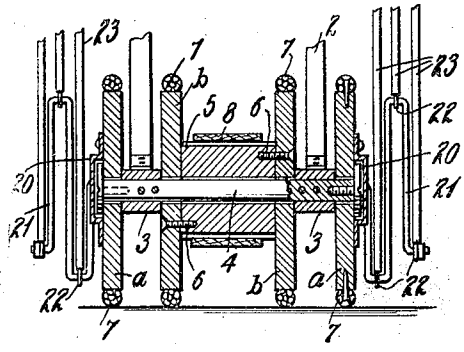
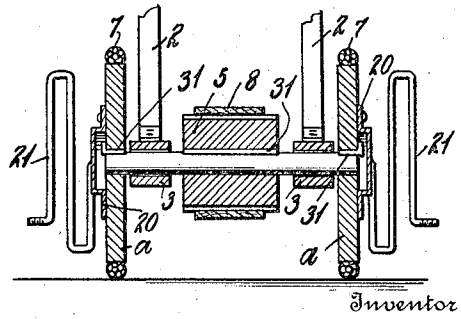


Fig. 5.



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UNITED STATES PATENT OFFICE.

CHARLES C. MILLIKEN, OF DEER RIVER, MINNESOTA.

WHEELED TOY.

Application filed July 28, 1921. Serial No. 488,065.

To all whom it may concern:

Be it known that I, CHARLES C. MILLIKEN, a citizen of the United States, residing at Deer River, in the county of Itasca and State of Minnesota, have invented new and useful Improvements in Wheeled Toys, of which the following is a specification.

My invention has reference, in general terms, to improvements in toys, and more particularly it is designed to provide a wheeled toy wherein a plurality of movable objects, including reciprocating shafts and an endless belt, are associated with the running gear of the toy.

The principal object of my invention is to provide a toy of the type defined, which will present an exceedingly animated and attractive appearance when it is propelled, so that a child operating it will be amused and also benefited physically by the exercise which is obtained by moving it.

Another object of my invention is to provide a wheeled toy which will also serve in the capacity of a small "float" for use on national holidays such as Decoration Day and Independence Day; there being provided means for receiving flags and the like.

Still further objects of my invention are: First, to provide in conjunction with the front and rear axles of the toy, an endless belt which is adapted to function as a stiffener for the running gear and as a support for small boats and the like; second, to operatively associate with the running gear a plurality of reciprocating shafts upon which are mounted bells and the like so that an animated and pleasant sound will be afforded; and, third, to provide a novel frame carrying reciprocating blocks and flag platforms for further enhancing the attractive appearance of the toy.

To these and other ends, my invention consists in the construction, arrangement, and combination of parts described hereinafter and pointed out in the claims forming a part of this specification.

The principal embodiment, and one slight modification, of my invention, are represented by way of example in the accompanying drawings, wherein:

Figure 1, is a side view of my toy.

Figure 2, is a top plan view.

Figure 3, is a sectional side view showing the manner in which the endless belt is carried by the running gear,

Figure 4, is a section taken through the front axle of my toy, and shows two inner supporting wheels, and,

Figure 5, is also a section taken through the front axle, but with the two inner wheels removed.

Like characters of reference refer to like or similar parts throughout the several views of the drawings, in which,

The numeral (1) designates elongated longitudinal frame members disposed at an incline downwardly as shown in Figure 1, and each has attached to its lower end a bracket (2). The upper ends of the frame members (1) are extended, and have bolted thereto a handle bar for propelling the toy. The brackets (2) have bolted thereto bearing collars (3) through which the front axle (4) of the toy is supported. Figure 4 shows four wheels mounted on the axle (4), the outer wheels, designated (*a*) being spaced from the inner wheels (*b*) by the collars (3), and the inner wheels are spaced from each other by a serrated or transversely corrugated drum (5) to which they are attached by screws (6) to form a unit. Each of the wheels is provided with rope or solid rubber tires (7) as shown.

Trained over the drum (5) is an endless belt (8) upon which are mounted toy boats, or other devices (9), and the belt also extends over a drum (10) carried by the rear axle (11) so that the boats, or the like, (9), will move as the toy is propelled. Embracing the rear axle (11) and each disposed between the drum (10) and the adjacent rear wheel (12) are bearing collars (13) to which are bolted vertical supporting members (14). The upper ends of the supporting members (14) are attached to a cross beam (15) which in turn is bolted to each of the longitudinal frame members (1) and extends outwardly therefrom on either side as shown in Figure 2. A second cross beam (16) is bolted to the lower ends of the frame members (1) and a pair of stringer rods (17) connect the two cross beams at their ends forming the frame assembly.

Mounted adjacent the handle bar and bolted to the members (1) is a box or receptacle (18) upon the bottom of which is fixed a bell, as shown in Figure 1, and bolted to the lower cross beam (16) is a platform (19) provided with openings for receiving the staffs of flags as also shown in Figure 1.

Attached to each of the wheels (*a*) and (12) are plates (20) upon which are mount-

ed S-shaped fittings (21), and pivotally attached as at (22) to the bends of these fittings are a plurality of inclined staffs (23). The staffs engaging the fittings on the rear wheels extend forwardly, and the staffs engaging the fittings carried by the front wheels extend rearwardly and pass between the rear staffs, so that the ensemble is an alternation of rear and forward staffs as shown in Figure 2.

The upper or free ends of the staffs pass through interstices formed by slat members (24) attached to the cross beams (15) and (16) between the stringer rods (17) and the frame members (1). The slat members (24) are fixed in position by cross pieces (25), and each of the upper slat units has mounted thereon a platform (26) for supporting flags and the like, and a bell, as shown in Figure 1.

Mounted between the box or receptacle (18) and the platform (19) and bolted to the frame members (1) are elongated brackets (27) beneath which and upon the members (1) ride pins (28). The pins (28) have mounted thereon blocks (29) for receiving flags or the like, and each pin is secured to the end of a staff (23) so that upon propulsion of the toy the blocks will be reciprocated beneath the brackets (27). Suitable abutment blocks (30) are provided to prevent displacement of the pins (28) when the staffs are actuated.

In the modification illustrated in Figure 5, no inner wheels (*b*) are provided and the outer wheels (*a*) and drum (5) are keyed directly to the front axle as shown at (31).

In operation, when the toy is propelled, the staffs are reciprocated to form an exceedingly animated and pleasant appearance which is enhanced by the movement of the endless belt carrying the boats. Each of the staffs is provided with a bell (32) and the reciprocating blocks with a flag. The receptacle may be used for storing additional flags or amusement devices. The operator simply pushes the toy either forwardly or rearwardly to produce the desired result as all of the operative parts are associated with the traction wheels of the toy.

While in the foregoing, there has been illustrated in the drawings and described in the specification such combination and arrangement of elements as constitute the preferred embodiment of my invention, it is nevertheless desired to emphasize the fact that interpretation of the invention should only be conclusive when made in the light of the subjoined claims.

Having described my invention and its objects with such attention to detail as will thoroughly acquaint one skilled in the art with its construction and advantages, I claim—

1. A toy comprising a wheeled frame formed with upwardly inclined, side-ralls constituting handle bars for propelling the frame, cross-pieces arranged between the side rails, a plurality of S-shaped fittings connected each at one end with the wheels on the frame, a plurality of blocks movably mounted in the space between the side rails, a plurality of angularly disposed staffs connected each at one end with one of the bends in the S-shaped fittings for reciprocation thereby, and some of the staffs engaging the movable blocks for the purpose set forth.

2. A toy comprising a wheeled frame having inclined top side-rails connected by cross-pieces, a plurality of plates mounted on the outer faces of the wheels, a plurality of S-shaped fittings each having one end fixed to one of the plates at a point coincident with the axes of the wheel, a plurality of alternately forwardly and rearwardly inclined staffs connected each at one end with one of the bends in the S-shaped fittings and reciprocable upon the cross-pieces connecting the side rails of the frame.

3. A toy comprising a frame formed of forward and rear sections, wheels mounted on the sections, an S-shaped fitting attached to the outside face of each of the wheels, forwardly extending, inclined staffs pivotally connected with the fittings carried by the rear wheels, rearwardly extending, inclined staffs carried by the forward wheels, the rear staffs alternately disposed with respect to the forward staffs at their crossing points, and means carried by the frame for holding said staffs in position.

In testimony whereof, I affix my signature hereto.

CHARLES C. MILLIKEN.