

Jan. 6, 1925.

F. STRAUSS

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FIGURE WHEELED TOY

Filed Oct. 12, 1922

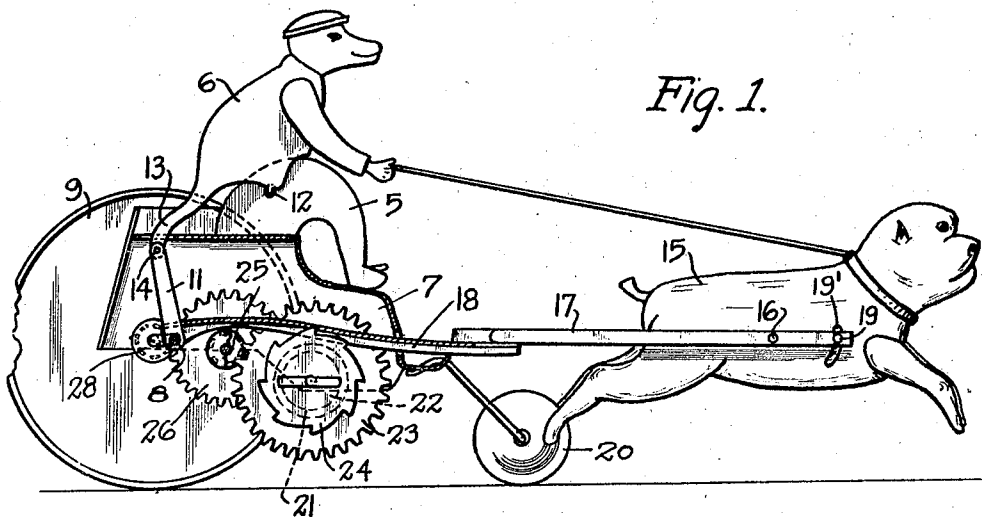
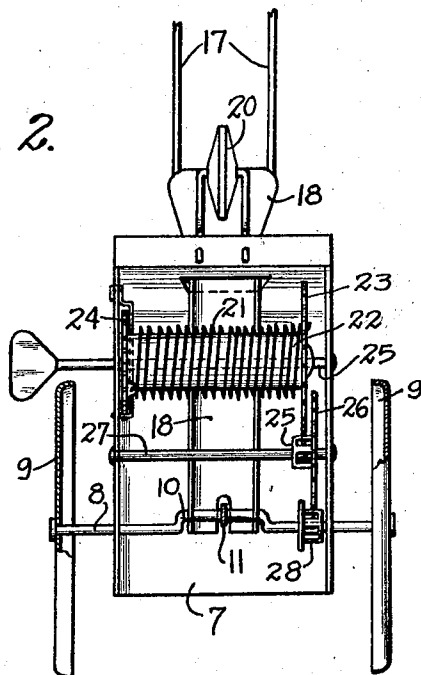


Fig. 2.



INVENTOR
Ferdinand Strauss
BY *Wm. H. Koch*
ATTORNEY

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FERDINAND STRAUSS, OF NEW YORK, N. Y.

FIGURE WHEELED TOY.

Application filed October 12, 1922. Serial No. 593,956.

To all whom it may concern:

Be it known that I, FERDINAND STRAUSS, a citizen of the United States of America, residing at New York city, county and State of New York, have invented certain new and useful Improvements in Figure Wheeled Toys, of which the following is a specification.

This invention relates to toys and in particular to the type which is operated by a spring propelled mechanism. An object of the invention is to provide movable figures which are set in motion when the toy is moving. Another object of the invention is to provide means whereby the life-like characters which are associated with the toy will be caused to move, the motions being those which would be in evidence in real life.

Referring to the drawing wherein one embodiment of my invention is illustrated:—

Fig. 1 is an elevational view partly in section, the section being taken through the cart body to disclose clearly the character operating features; and

Fig. 2 is a bottom plan view of the toy as seen in Fig. 1, the driving mechanism being clearly shown in its relation to the character operating parts.

In my form of invention, as illustrated in the drawing, I have made use of two characters, a monkey and a dog, which are used for the purposes of showing how my improved movement may be applied thereto. The monkey comprises two parts, the stationary part 5 and movable body part 6, the former of which is suitably secured to the seat of the cart 7, which is made, in the usual manner from sheet metal.

The cart is carried on an axle 8 to which is fixed the wheels 9. The central part of the shaft 8 is offset as at 10 to provide a crank movement to a vertically disposed arm 11, which is clinched about the offset 10 so as to be loosely retained thereon. The movable body 6 of the monkey is pivoted as at 12 to the stationary part 5 and the former is provided with an extended tail portion 13 which passes through a suitable opening in the seat of the cart and pivotally engages the upper end of the arm 11, as at 14. Any revolution of the shaft 8 will therefore cause a rocking movement of the body portion 6 of the monkey.

The dog character 15 is made of metal

and is pivotally supported as at 16 between two shafts 17, the latter being carried by a rocker strip 18 which extends through the front of the cart 7 and rearwardly to the offset portion 10 of the axle 8, to which it is loosely fixed. The revolutions of the axle provide a forward and rearward movement of the strip 18 and shafts 17. It will be noted that the dog is pivoted in the shafts rearwardly of the center of the body so that normally the dog drops down. The up and down movement is limited by a pin 19 which passes through slots 19' in the sides of the dog and connects the shafts 17. A suitable pilot wheel 20 is disposed forwardly of the cart to hold the dog far enough off the ground to allow of a rocking movement thereof.

The propelling mechanism comprises a key wound spring 21 which is disposed about a barrel 22, one end of which is secured to a gear 23, the other end of which abuts against a ratchet wheel 24 which is fixed to the winding shaft 25. The ends of the spring are secured to the barrel 22 and ratchet 24 so that the same may be wound and then exert its energy to drive the barrel and consequently the gear 23. The gear 23 meshes with a pinion 25 which is formed on an intermediate gear 26, which is mounted upon the intermediate shaft 27, the latter being suitably journaled in the sides of the cart body. The gear 23 meshes with a pinion 25 which is formed on an intermediate gear 26, which is mounted upon the intermediate shaft 27, the latter being suitably journaled in the sides of the cart body. The gear 26 meshes in turn with a pinion 28 which is secured to the axle, and through the medium of which the vehicle is propelled and the characters operated.

A suitable string connects the hands of the monkey and the collar of the dog. This acts to rock the dog on its pivot point 16 when the body of the monkey moves rearwardly and the rocker strip 18 moves forwardly.

It will be noted that when the monkey's body is moving backward, the rocker strip is moving forward, due to the rotation of the axle, and the string is tautened and the dog's forepart moves upwardly. When the reverse occurs the monkey and dog are given a movement in unison, to simulate characters in real life.

Having described my invention, what I

claim and desire to secure by Letters Patent is:—

1. The combination with a toy comprising a vehicle body of a rocker plate, a pair
5 of shafts formed on said plate, a character
pivotaly mounted between said shafts and
adapted to swing therebetween, a pin and
slot connection between the shafts and the
character whereby the swinging movement
10 of the latter is limited, and means for simultaneously propelling the toy and operating the rocker plate and the character.

2. A toy comprising a vehicle body, a

driving shaft, a rocker plate attached to
said shaft and adapted to be reciprocated 15
longitudinally of said vehicle, a character
pivotaly mounted on said rocker plate, a
character on the vehicle and a link connecting
said vehicle character and said driving
shaft whereby when the driving shaft is op- 20
erated, the vehicle character and the rocker
plate will be operated.

In testimony whereof I hereunto affix my
signature.

FERDINAND STRAUSS.