

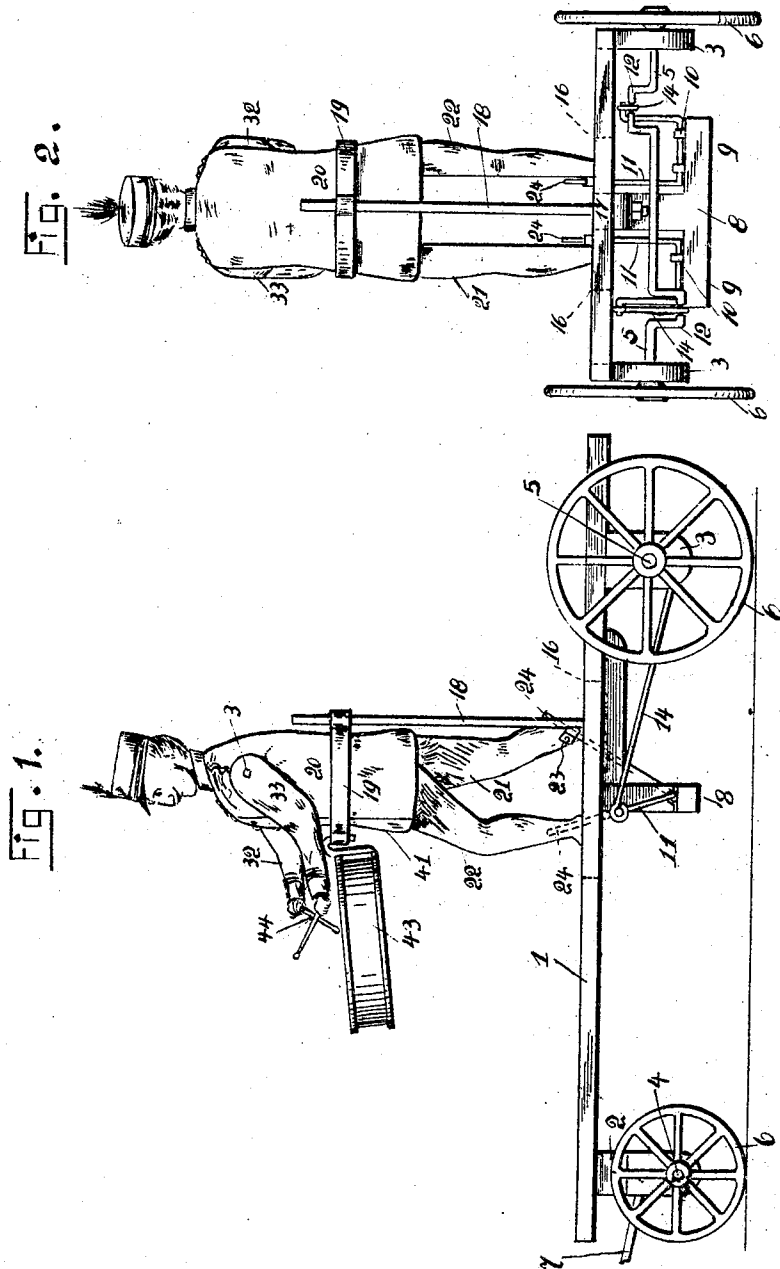
No. 800,028.

PATENTED SEPT. 19, 1905.

H. STUBERT.
TOY.

APPLICATION FILED DEC. 24, 1904.

2 SHEETS—SHEET 1.



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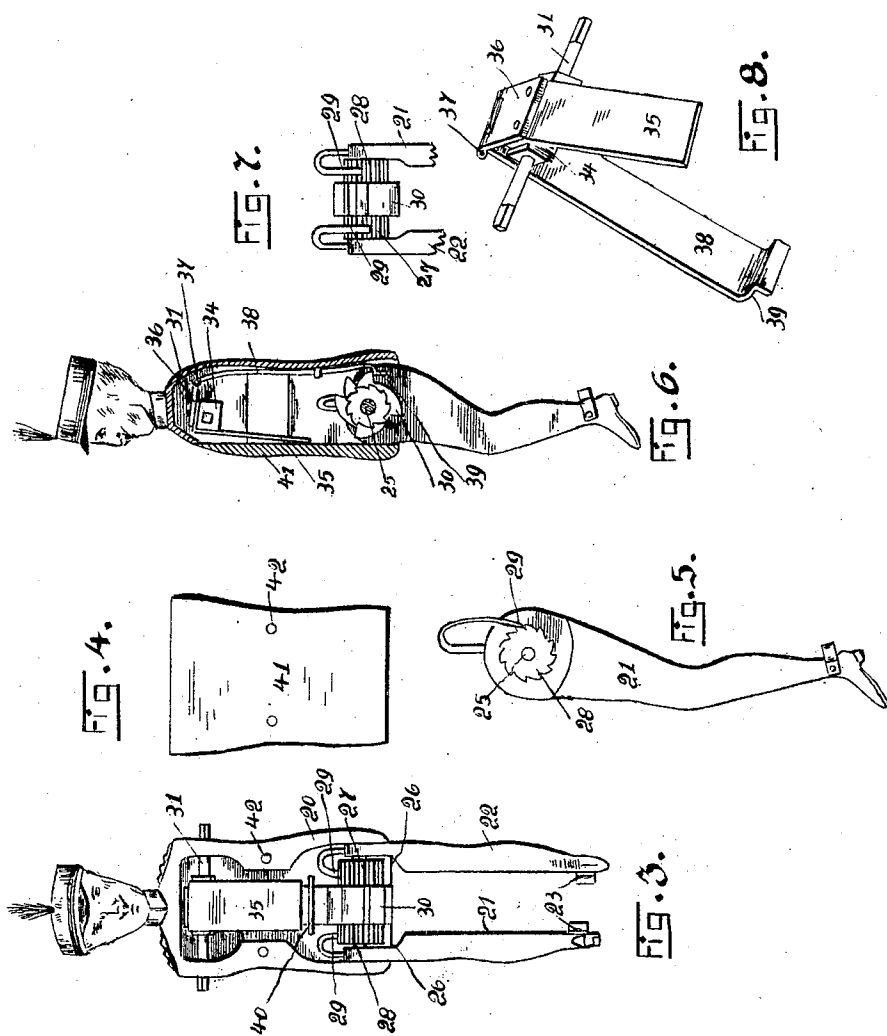
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UNITED STATES PATENT OFFICE.

HENRY STUBERT, OF NEW KENSINGTON, PENNSYLVANIA, ASSIGNOR
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TOY.

No. 800,028

Specification of Letters Patent.

Patented Sept. 19, 1905.

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To all whom it may concern:

Be it known that I, HENRY STUBERT, a citizen of the United States of America, residing at New Kensington, in the county of Westmoreland and State of Pennsylvania, have invented certain new and useful Improvements in Toys, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention relates to certain new and useful improvements in toys, and more particularly to that class of toys which are drawn along the ground in order to operate the same.

The object of this invention is to provide a novel toy representing a vehicle having a miniature male figure mounted thereon, the figure being represented as beating a drum, and I have embodied novel means for producing sounds or music from the toy.

Another object of my invention is to provide a toy which will be attractive in appearance, strong and durable, whereby it will withstand the rough usage to which juveniles generally subject such toys.

The particular feature of my improved toy resides in the novel means which I employ for producing march music, whereby the person or child who is operating the vehicle can keep step with the music.

With the above and other objects in view reference will be had to the drawings accompanying this application, wherein like numerals of reference designate corresponding parts throughout the several views, in which—

Figure 1 is a side elevation of my improved toy. Fig. 2 is a rear view of the same. Fig. 3 is a top plan view of the miniature figure of my improved toy, illustrating the actuating mechanism thereof. Fig. 4 is a plan view of the front plate of the miniature figure, which is removed from the figure illustrated in Fig. 3 of the drawings. Fig. 5 is a detail side elevation view of one of the limbs of the figure. Fig. 6 is a vertical sectional view, partly in side elevation, of the miniature figure. Fig. 7 is a detail view of a part of the actuating mechanism, and Fig. 8 is a detail perspective view of a portion of the actuating mechanism.

To put my invention into practice, I have employed a vehicle which comprises a bed-plate or platform 1, and this platform or bed-plate carries depending lugs 2 and 3, in which the axles 4 and 5 of the vehicle are journaled,

these axles being provided with wheels 6 6. To the front axle 4 of the vehicle may be attached a suitable rod or string 7, whereby the vehicle can be drawn and propelled in any desired direction. Centrally of the bed-plate or platform 1 I provide the substantially T-shaped hanger 8, upon the outwardly-extending portions 9 of which I mount in bearings 10 substantially U-shaped rods 11 11.

The rear axle 5 carries cranks 12 12, these cranks being formed integral with said axle and extending radially in opposite directions, as is plainly illustrated in Fig. 2 of the drawings. The cranks are connected by links 14 14 with the substantially U-shaped rods 11.

The bed-plate or platform 1 is provided with slots 16 16, which are parallel to one another, and upon the bridge 17, formed by these slots, I erect a standard 18, to which is attached by a metallic belt 19 a miniature figure, which, as illustrated in the accompanying drawings, represents a soldier. In the body portion 20 of the figure I mount novel mechanism which is adapted to be actuated by the pivoted oscillating legs of the figure. The legs of the figure are designated by the reference-numerals 21 and 22, and each leg extends downwardly into the slots 16 16 and have connected to their lower ends guide-brackets 23, in which are slidably mounted the upper ends 24 of the substantially U-shaped rods 11. In the lower part of the body portion 20 is mounted a shaft 25, this shaft being so mounted in the body portion in any well-known manner as to be removable therefrom, and upon this shaft the upper cut-away ends 26 26 of the legs 21 and 22 are mounted, said legs being loosely mounted upon said shaft. Keyed to said shaft are ratchet-wheels 27 and 28, and the upper ends of the legs 21 and 22 are provided with substantially inverted-U-shaped members 28', the one side of each member being bent inwardly and provided with a toothed end 29, which is adapted to engage the teeth of the ratchet-wheels 27 and 28.

Between the ratchet-wheels 27 and 28 and upon the shaft 25 I mount a toothed wheel 30, said wheel being secured on the shaft in any of the various manners known to people skilled in the art to which this invention pertains and being removable therefrom. The toothed wheel, as illustrated in Fig. 6 of the drawings, is provided with irregularly-spaced

teeth. By forming the irregularly-spaced teeth upon the wheel it enables me to produce march music, and while I have only illustrated five teeth which represent notes it is obvious that a wheel may be employed with a different number of teeth thereon, whereby the toy can be made to produce any desired piece of music. It will of course be understood that only very short pieces of music can be produced by the toy and that the same is particularly adapted for march music, wherein the notes are often repeated.

In the upper part of the body portion 20 is mounted an oscillating or rocking shaft 31, and the end of this shaft protrudes out of the body portion upon each side thereof and these ends are adapted to have the arms 32 and 33 of the figure secured thereto by any suitable means. The shaft 31 within the body portion of the figure is provided with a square portion 34, to the one side of which is connected a flat spring 35 and a plate 36. To the edge of the plate 36 is hinged, as indicated at 37, a plate 38, having an angular-disposed toothed end 39. The plate 38 is retained in the body portion 20 by a guide-strap 40, and in assembling the different parts of the toy I mount the plate 38 so the angular-disposed toothed end 39 of said plate will lie in close proximity to the toothed wheel 30, as clearly illustrated in Fig. 6 of the drawings.

The reference-numeral 41 designates a front or breast plate, which is secured to the body of the figure by suitable set-screws, which pass through apertures 42, formed in the front or breast plate 41. This plate is provided whereby access may be had to the mechanism contained within the figure.

Secured to the metallic belt 19, which supports the body portion of the figure, is a miniature drum 43, and the arms 32 and 33 of the figure are connected to the ends of the shaft 31, whereby they will be normally held directly above the drum 43. The miniature hands of the figure are provided with drumsticks 44, whereby when the toy is propelled and the mechanism contained within the figure is actuated the figure may be made to sound the drum and produce music according to the number of teeth carried by the toothed wheel 30.

We will now assume that the toy is being drawn over a floor or the like base and that the rear axle is revolving. An oscillatory motion is imparted to the legs or limbs 21 of the miniature figure through the medium of the cranks 12, links 14, and rods 11, and as the legs are oscillated the ratchet-wheels 27 and 28 will be rotated by the toothed ends 29 of the members 28', and the toothed wheel 30 will be rotated. As this wheel is rotated the teeth carried by said wheel engage the angu-

lar-disposed toothed end 39 of the plate 38 and reciprocate the same. When a tooth engages the end 39 of the plate, it pulls downwardly upon said plate, which will impart a rocking or oscillatory movement to the shaft 31, the spring 35 returning said shaft to its normal position. As the shaft 31 is oscillated the arms 32 and 33 are raised and lowered, causing the drumsticks 44 to strike the drum 43 and produce the desired sounds.

It will be observed by the construction of my improved toy that the front or breast plate 41 can be removed, the shaft 25 removed, one of the wheels 27 or 28 taken off the shaft, and another toothed wheel placed thereon, whereby a different piece of music can be played by the miniature figure when the parts are again assembled.

It will be noted that various changes may be made in the details of construction without departing from the general spirit and scope of the invention.

What I claim, and desire to secure by Letters Patent, is—

1. In a toy of the character described, the combination with a vehicle having a cranked axle, of a miniature figure mounted upon said vehicle, said figure having oscillating legs, actuated by the cranked axle, oscillating arms carried by said figure, drumsticks carried by said arms, a miniature drum carried by said figure, a rotary shaft mounted within said figure and actuated by the limbs of said figure means carried by said rotary shaft to impart an oscillatory movement to said arms, whereby the drumsticks will be caused to strike the drum, substantially as described.

2. In a toy, the combination of a wheeled vehicle, a crank-shaft receiving movement from the wheels of the vehicle, a miniature figure mounted on said vehicle and having movable legs connected to said crank-shaft, a rotary shaft mounted within the body of said figure, two ratchet-wheels carried by said shaft, means carried by said legs for engagement with said ratchet-wheels, a toothed wheel carried on the shaft with said ratchet-wheels, pivoted arms carried by said figure and means for imparting movement from said toothed wheel to said arms.

3. In a toy, the combination of a wheeled vehicle, a miniature figure mounted on said vehicle, a drum carried by said figure, oscillating arms carried by said figure, drumsticks carried by said arms and means for imparting irregularly-timed rhythmical movements to said arms.

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

HENRY STUBERT.

Witnesses:

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J. F. COYTZER.