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M. MORIHATA

1,571,489

TOY VEHICLE

Filed May 25, 1925

Fig. 1.

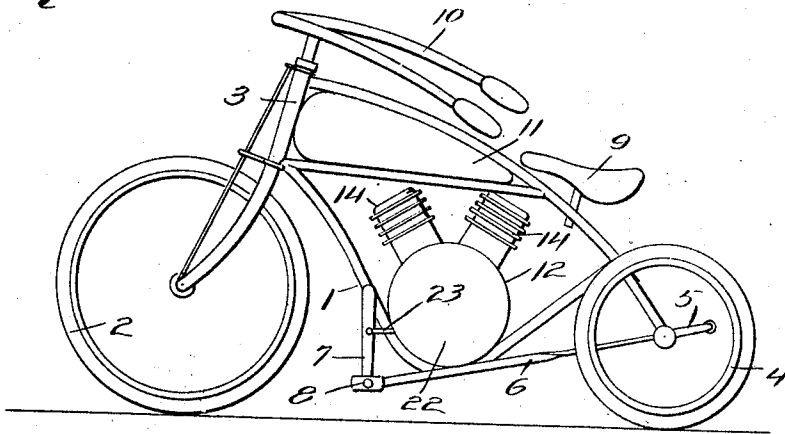


Fig. 2.

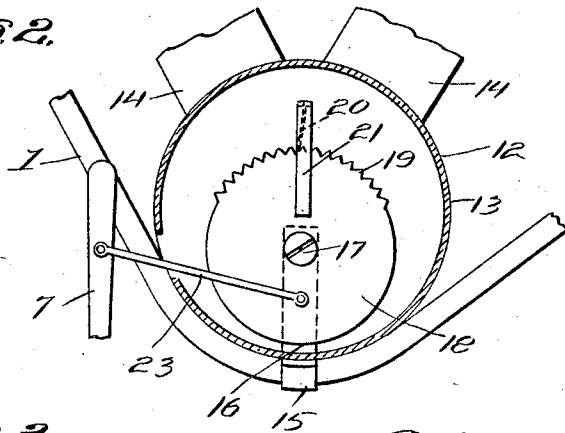


Fig. 3.

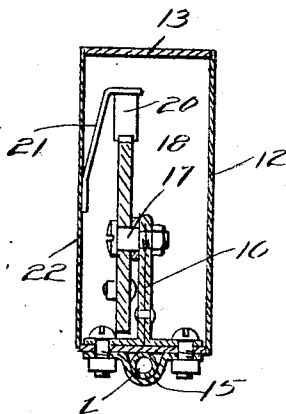
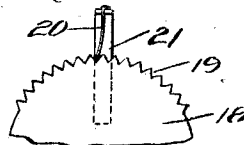


Fig. 4.



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TOY VEHICLE.

Application filed May 25, 1925. Serial No. 32,684.

To all whom it may concern:

Be it known that I, MATSUKE MORIHATA, a citizen of the United States, residing at Honolulu, in the Territory of Hawaii, have invented certain new and useful Improvements in a Toy Vehicle, of which the following is a specification.

This invention relates to an improved toy vehicle, the present embodiment being directed more particularly to one which resembles a conventional motor cycle, or a motor operated velocipede.

In producing the present invention, it has been my principal aim to provide an imitation motor cycle adapted to be operated more particularly by children, the same embodying an imitation engine or motor, which resembles the kind of motor usually found on actual motor cycles, and there being means operating in association with this imitation motor to produce a sound or noise simulating that made by the operation of an actual motor.

The broad proposition stated is capable of being carried into effect in various ways, and in order that a comprehension of a preferred embodiment of the same may be had, attention is directed to the accompanying drawings, in which:

Figure 1 represents a side elevation of a toy velocipede constructed in accordance with the present invention.

Figure 2 is an enlarged view in section and elevation showing the motor sound producing means.

Figure 3 is a central vertical section through the casing of the imitation motor.

Figure 4 is a detail view showing the vibrating disk, and cooperating means.

Before proceeding with the detailed description of the invention, I wish it to be understood that the improved inventive conception may be carried into effect in the embodiment of some other form of motor vehicle, and while the description seemingly confines the novelty to the use of the invention upon an imitation motor driven velocipede or motor cycle, it is not to be restricted to that particular use.

Proceeding in accordance with the foregoing, and directing attention to Figure 1 it will be seen that the reference character 1 designates an appropriately designed frame of a toy velocipede, the same comprising a front guide wheel 2, carried by the steering fork 3, and a pair of rear driving wheels 4

operating in association with a crank shaft 5. Extending forwardly from the cranks of this shaft are pull rods 6 connected by flexible joints with depending crank arms 7 mounted on the lower bar of the frame. Although it is not shown particularly, it is understood that the usual pedals 8 are employed for operating the crank shaft 5, and the crank arms 7. The particular method of propulsion of the vehicle however is not exceedingly important. In order to render the structure more impressive, it embodies a relatively large saddle 9, large handle bars 10 and a gasoline tank 11.

It will be noted that the bottom bar of the frame is bowed somewhat to form a central seat, and in this seat is an imitation motor or engine 12 embodying a disc-like casing 13 supporting a pair of diverging cylinders 14. These parts are shaped as far as possible to approximate the actual motors now used. In this connection attention is directed to Figure 3 wherein it will be seen that a clamp 15 serves to fasten the casing to the frame bar, and it will be noticed that inside of the casing is a supporting bracket 16 equipped with a journal 17 upon which a disc 18 is mounted for oscillation. This disc (see Figure 4) is provided with a gear segment 19, and a resilient finger 20 cooperates with the teeth of this segment, this finger being carried by a strip 21 which is securely fastened to the central portion of a vibratory diaphragm 22 serving as a closure for the open side of the casing. In order to oscillate the disc, a link 23 is employed, the same being connected to the reciprocating crank arm 7, and having eccentric connections with the disc as better shown in Figure 2.

With the construction described, it is obvious that as the vehicle is propelled in the usual way, the disc 18 will be oscillated, thus moving the gear segments 19 back and forth. The gear segments through the medium of the finger 20, and the connecting arm 21 will vibrate the diaphragm 22 thus producing a noise or sound simulating the "popping" of a motor. It is thus evident that an imitation motor provided with a sounding device of this kind will be exceedingly effective to operate as an imitation motor vehicle.

No doubt the foregoing description taken in connection with the drawings will enable persons skilled in the art to which the invention relates to obtain a clear understand-

ing of the same. Therefore, a more lengthy description is thought unnecessary.

Having thus described the invention, what I claim as new and desire to secure by Letters Patent is:—

1. In a toy motor vehicle of the class described, a wheel supported frame, an imitation fuel tank carried by said frame, an imitation motor carried by said frame, said motor embodying a hollow casing and dummy cylinders, said casing having a vibratory diaphragm, and means in said casing for vibrating said diaphragm to produce a popping noise.

2. In a toy motor vehicle of the class described, a wheel supported frame, an imita-

tion fuel tank carried by said frame, an imitation motor carried by said frame, said motor comprising a hollow casing, one side wall of which is constructed to form a vibratory diaphragm, dummy cylinders carried by said casing, a bracket in said casing, an oscillatory disk mounted upon said bracket, said disk being provided with a peripheral gear segment, an arm connected to and extending from said diaphragm, and a resilient finger carried by said arm and co-operable with the teeth of said gear segment for vibrating said diaphragm.

In testimony whereof I affix my signature.

MATSUSUKE MORIHATA.