J. H. McCARTHY AND H. E. GRAFF.

TOY CART.

APPLICATION FILED JUNE 4, 1920.

1,387,281.

Patented Aug. 9, 1921.

2 SHEETS—SHEET 1.

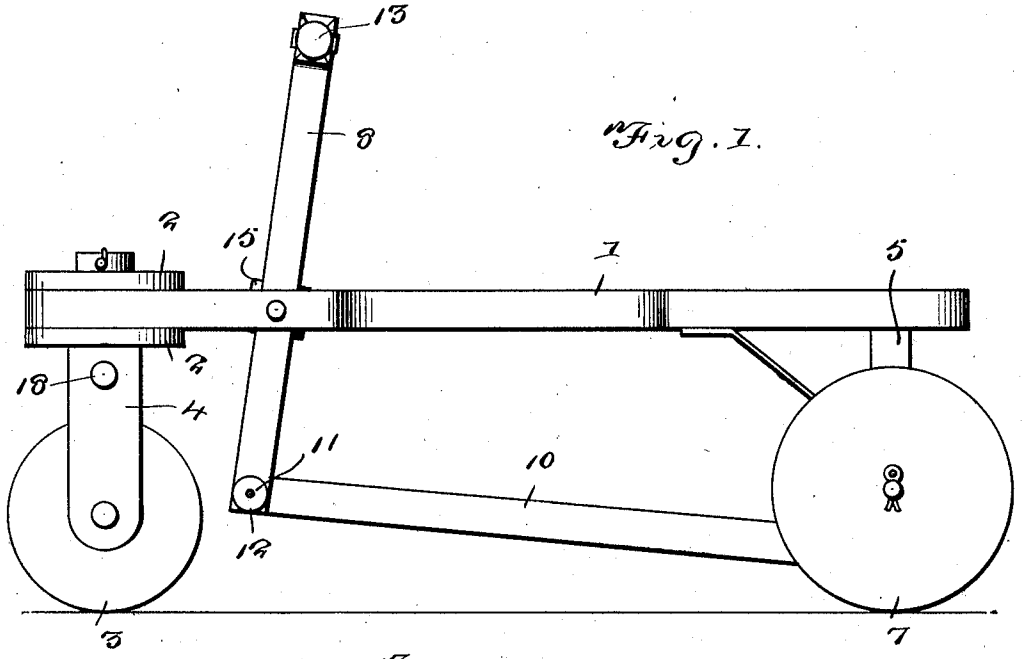


Fig. 1.

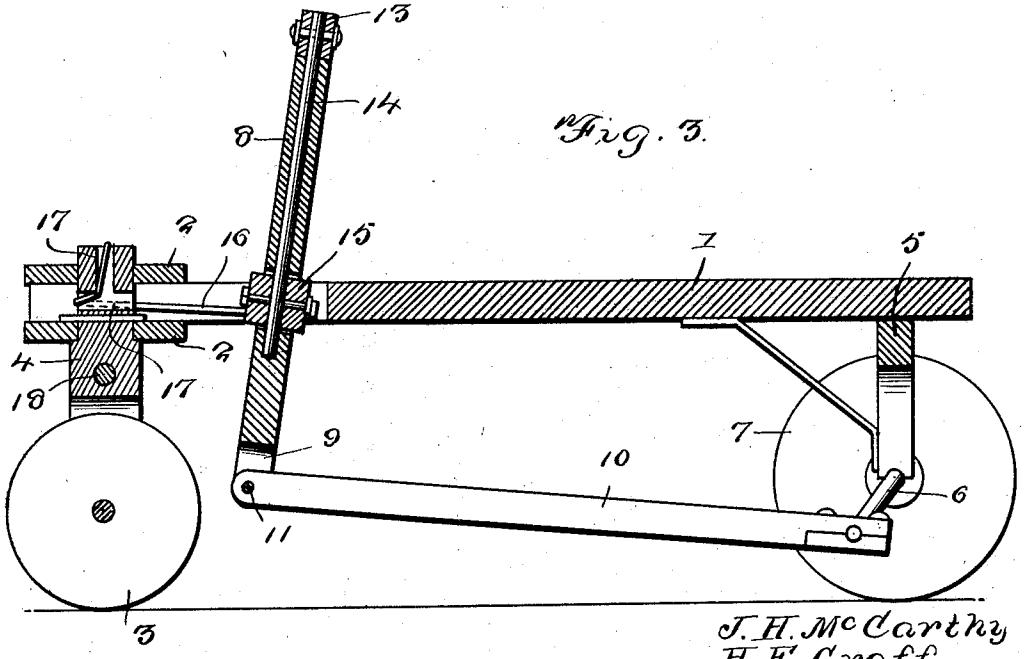


Fig. 3.

J. H. McCarthy
H. E. Graff
INVENTOR

BY Victor J. Evans
ATTORNEY

E. A. Buchanan.
L. B. Middleton
WITNESS:

J. H. McCARTHY AND H. E. GRAFF.

TOY CART.

APPLICATION FILED JUNE 4, 1920.

1,387,281.

Patented Aug. 9, 1921.

2 SHEETS—SHEET 2.

Fig. 2.

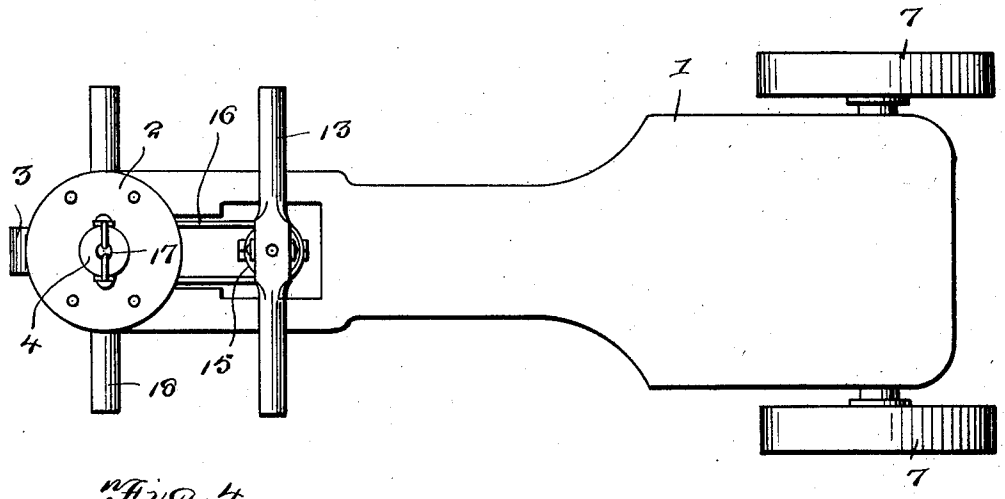


Fig. 4.

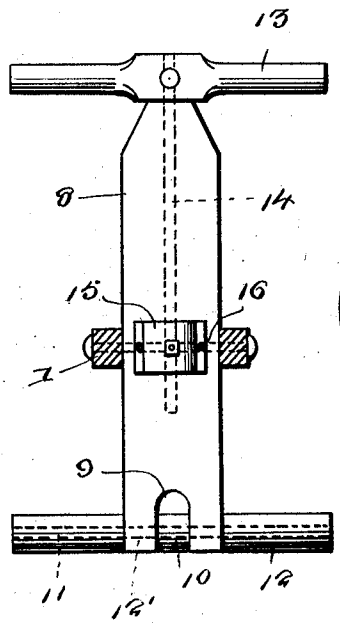
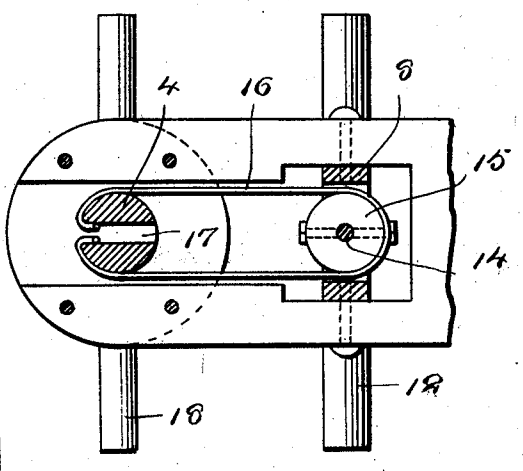


Fig. 5.



J. H. McCarthy
H. E. Graff
INVENTOR

BY Victor J. Evans
ATTORNEY

E. A. Buchanan.
L. B. Puddleton
WITNESS:

UNITED STATES PATENT OFFICE.

JOHN H. McCARTHY AND HENRY E. GRAFF, OF LYONS, NEW YORK, ASSIGNORS, BY DIRECT AND MESNE ASSIGNMENTS, TO THE McCARTHY NOVELTY COMPANY, OF WHITEHALL, NEW YORK, A CORPORATION OF NEW YORK.

TOY CART.

1,387,281. Specification of Letters Patent. Patented Aug. 9, 1921.

Application filed June 4, 1920. Serial No. 386,429.

To all whom it may concern:

Be it known that we, JOHN H. McCARTHY and HENRY E. GRAFF, citizens of the United States, residing at Lyons, in the county of Wayne and State of New York, have invented new and useful Improvements in Toy Carts, of which the following is a specification.

This invention relates to a wheeled toy provided with propelling means and steering means so that the child may propel himself along while seated upon the toy and the principal object of the invention is to provide means whereby the child may use both his feet and hands for propelling the device.

Another object of the invention is to provide means whereby the device can be steered by the hands while the propelling means are being actuated by the feet and hands.

This invention also consists in certain other features of construction and in the combination and arrangement of the several parts, to be hereinafter fully described, illustrated in the accompanying drawings and specifically pointed out in the appended claims.

In describing our invention in detail, reference will be had to the accompanying drawings wherein like characters denote like or corresponding parts throughout the several views, and in which:—

Figure 1 is a side view of the invention.

Fig. 2 is a plan view.

Fig. 3 is a longitudinal sectional view.

Fig. 4 is a view of the rocker lever.

Fig. 5 is a detail view.

In these views 1 indicates the seat part of the device which is provided with the forked front end, to the forks of which are secured the rings 2, said rings being bolted to the upper and lower faces of the fork. The front wheel 3 is journaled in the forked end of the post 4, the upper end of which is reduced and is of cylindrical form to engage the openings in the rings and the space between the forks, said end being rotatably held in place by means of a cotter pin or the like. A shoulder is formed by said reduced part and the lower part of the post and this shoulder engages the lower face of the lower ring. A block 5 is secured to the rear part of the seat and a crank shaft 6 is rotatably carried by said block and the rear wheels 7 are suitably secured to the ends of said shaft. The rocker lever 8 is pivoted between the forks at the front end of the seat, the spaces formed by the forks being provided with an inner enlargement in which this lever operates. The lower end of said lever is forked as at 9 to receive the bar 10 which is adjustably secured to said lever by means of the pin 11 passing through a hole in the said bar and one pair of a plurality of pair of holes 12′ formed in the forks. The other end of the bar is connected with the crank of shaft 6. Instead of connecting the bar directly with the crank we may gear the same to the crank.

It will thus be seen that by rocking the lever to and fro its motion will be communicated to the crank shaft by means of the bar 10 so that the rear wheels will be caused to revolve and thus propel the device along.

We provide means whereby the rocker lever may be actuated by both the hands and feet, such means comprising a foot bar 12 secured to the lower end of the rocker lever and a handle bar 13 which is pivotally connected with the upper end of the rocker lever by means of the shaft 14 journaled in the forked upper end of said lever. Thus by placing both hands on the handle bar and the feet on the foot bar said lever can be rocked by both the arms and legs.

The steering means for the device comprises a drum 15 carried by the shaft 14 and to which a looped cable 16 is connected. This cable passes between the forked end of the seat and between the rings and passes around the cylindrical upper end of the post 4 and through the horizontal and vertical holes 17 formed in said cylindrical part, the ends of the cable being then secured to the upper end of the cylindrical part. It will thus be seen that by rotating the shaft and drum by the handle bar the post and front wheel can be moved to steer the device. We also support a foot rest bar 18 on the post upon which the feet are placed when it is desired to coast or to propel the device without using the feet. By means of this bar the device can be steered by means of the feet if desired. By using both the arms and legs for propelling the device it may be driven along at high speed and the muscles of the arms and legs and of the back are exercised.

It is thought from the foregoing description that the advantages and novel features of our invention will be readily apparent.

We desire it to be understood that we may make changes in the construction and in the combination and arrangement of the several parts, provided that such changes fall within the scope of the appended claim.

What we claim is:—

A device of the class described comprising a seat part having a forked front end, a front wheel supporting post rotatably mounted in said forked end, a rocker lever pivotally mounted between the forks of said forked end, a block connected with the rear end of the seat part, a crank shaft carried by said block, rear wheels carried by the crank shaft, a bar connecting the crank shaft with the lower end of the rocker lever, a foot bar connected with the lower end of said lever, a shaft rotatably mounted in the upper end of said lever, a handle bar connected with said shaft, a drum on said shaft, a cable connecting the drum with the front wheel supporting post, and a foot rest on said post.

In testimony whereof we affix our signatures.

JOHN H. McCARTHY.
HENRY E. GRAFF.