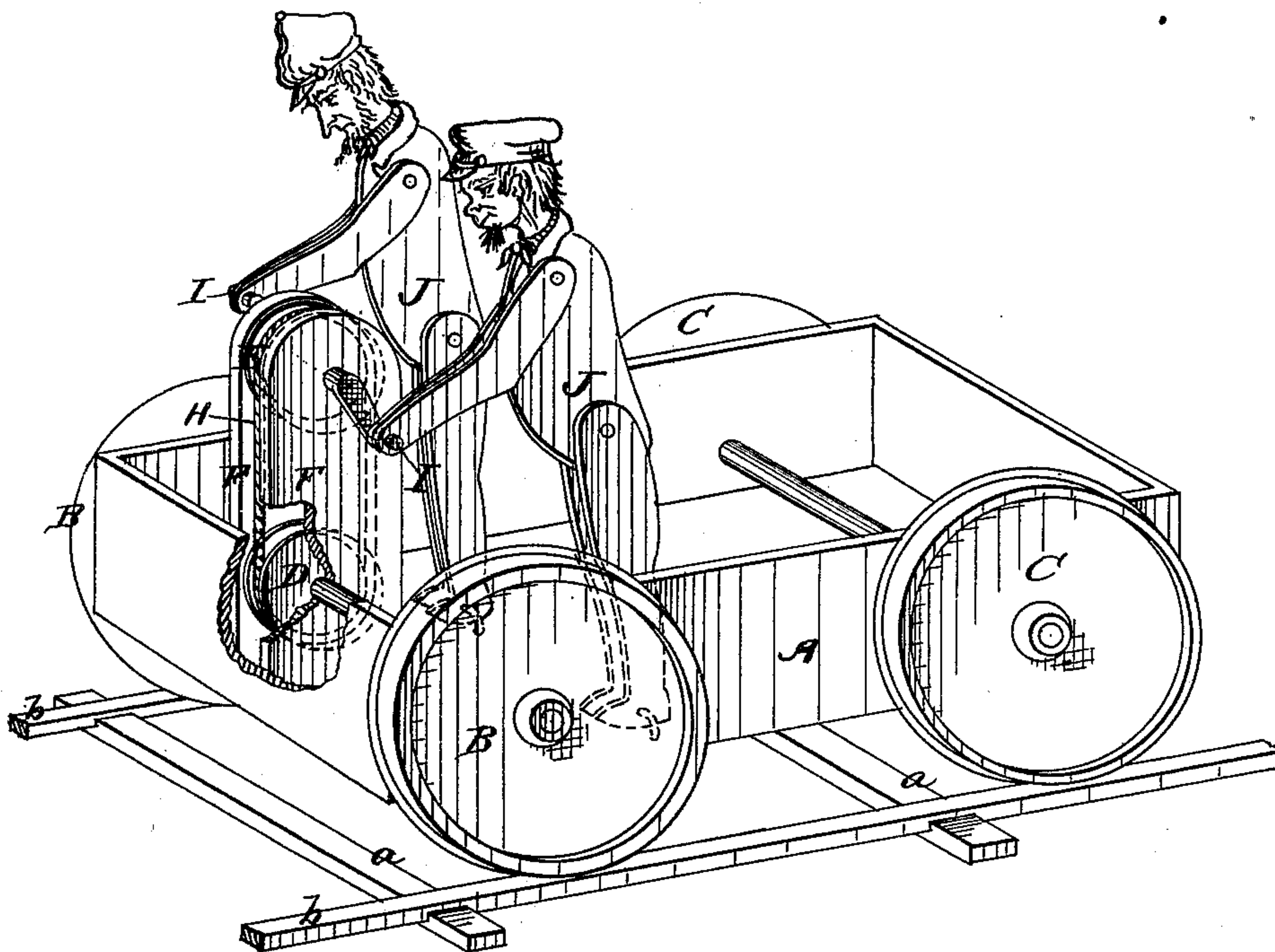


F. R. HADLEY.  
Toy Hand-Car.

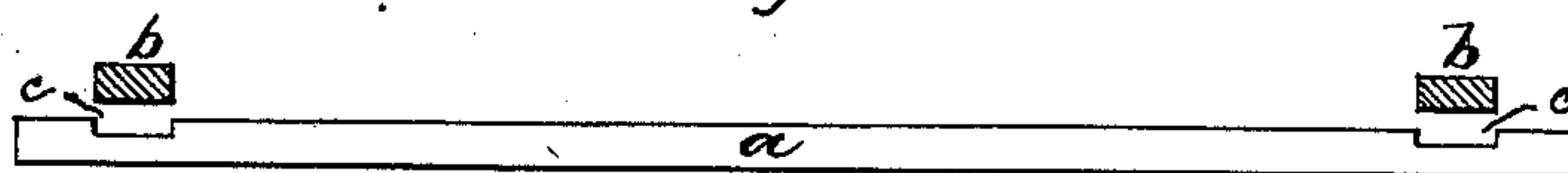
No. 213,749.

Patented April 1, 1879.

*Fig. 1.*



*Fig. 2.*



*Witnesses.*

*Geo. W. Pierce*  
*E. B. Fairchild*

*Inventor-*

*F. R. Hadley*  
*by Wright & Brown*  
*Attys.*

# UNITED STATES PATENT OFFICE.

FREDERICK R. HADLEY, OF LEOMINSTER, MASSACHUSETTS.

## IMPROVEMENT IN TOY HAND-CARS.

Specification forming part of Letters Patent No. 213,749, dated April 1, 1879; application filed December 9, 1878.

*To all whom it may concern:*

Be it known that I, FREDERICK R. HADLEY, of Leominster, in the county of Worcester and State of Massachusetts, have invented certain Improvements in Toy Hand-Cars, of which the following is a specification:

The present invention relates to that class of mechanical toys in which automaton figures mounted on a wheeled supporting-frame are operated by the revolution of the wheels; and the invention consists in a miniature hand-car mounted on four wheels, and provided with two erect jointed or articulated figures, the arms of which are connected with cranks of a pulley journaled in a vertical standard. The revolving axle of the front wheels of the car is provided with a pulley, and around the same and the upper pulley having the cranks passes an endless belt, so that when the car is propelled forward on a floor or a suitable track the figures will be set in motion, in order to give the same the appearance of operating the car.

In the accompanying drawings, forming a part of this specification, Figure 1 represents a perspective view of a toy hand-car embracing my invention. Fig. 2 represents a section of the track upon which the car is preferably designed to run.

The body of the car A is made in the form of a box, and is provided with a front pair of wheels, B, and a rear pair of wheels, C. The axle of the front wheels revolves with the same, and possesses a centrally-located pulley, D, which, by means of an endless belt or cord, H, passing around said pulley D and an upper pulley, E, serves to operate a pair of jointed or articulated figures, J, representing workmen. The upper pulley, E, is arranged between two plates, forming a standard, F, this standard rising from the floor of the car and inclosing the belt H and the aforesaid pulley E. The arbor or shaft of the pulley E is provided with two cranks, I, which preferably project in opposite directions, so that when the

upper portion of one figure is descending the other will be ascending.

The figures J are formed of jointed sections, the feet being pivoted to a cross-rod at the floor of the car, and the arms being connected with the cranks of the pulley E.

The toy hand-car constructed as above described will be a source of amusement to children, as the jointed or articulated figures will apparently go through the motions required for operating a genuine hand-car.

In order to make the operation of the car more complete, I prefer to provide a track composed of mortised wooden sleepers *a a* and wooden rails *b b*, adapted to fit in the mortises *c* in the sleepers. This track can be easily laid and taken up. The rails are held in the sleepers by friction, as they fit snugly in the mortises of the sleepers.

I am aware of the existence of a revolving hoop, which, when trundled on the ground, serves, by means of belts and pulleys, to operate a series of jointed or articulated figures; and I am also aware that it is not new to mount on a wheeled toy carriage a bell and an articulated figure which are operated by rods and other devices connected with the axle of said carriage.

I claim as my invention—

The toy herein described, consisting of the miniature hand-car A, front and rear wheels, B C, pulley D, mounted on the axle of the front wheels, belt H, standard F, upper pulley, E, having end cranks I, and the erect jointed or articulated figures J, all constructed and relatively arranged as herein set forth, for the purpose specified.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

FREDERICK R. HADLEY.

Witnesses:

C. F. BROWN,  
E. B. FAIRCHILD.