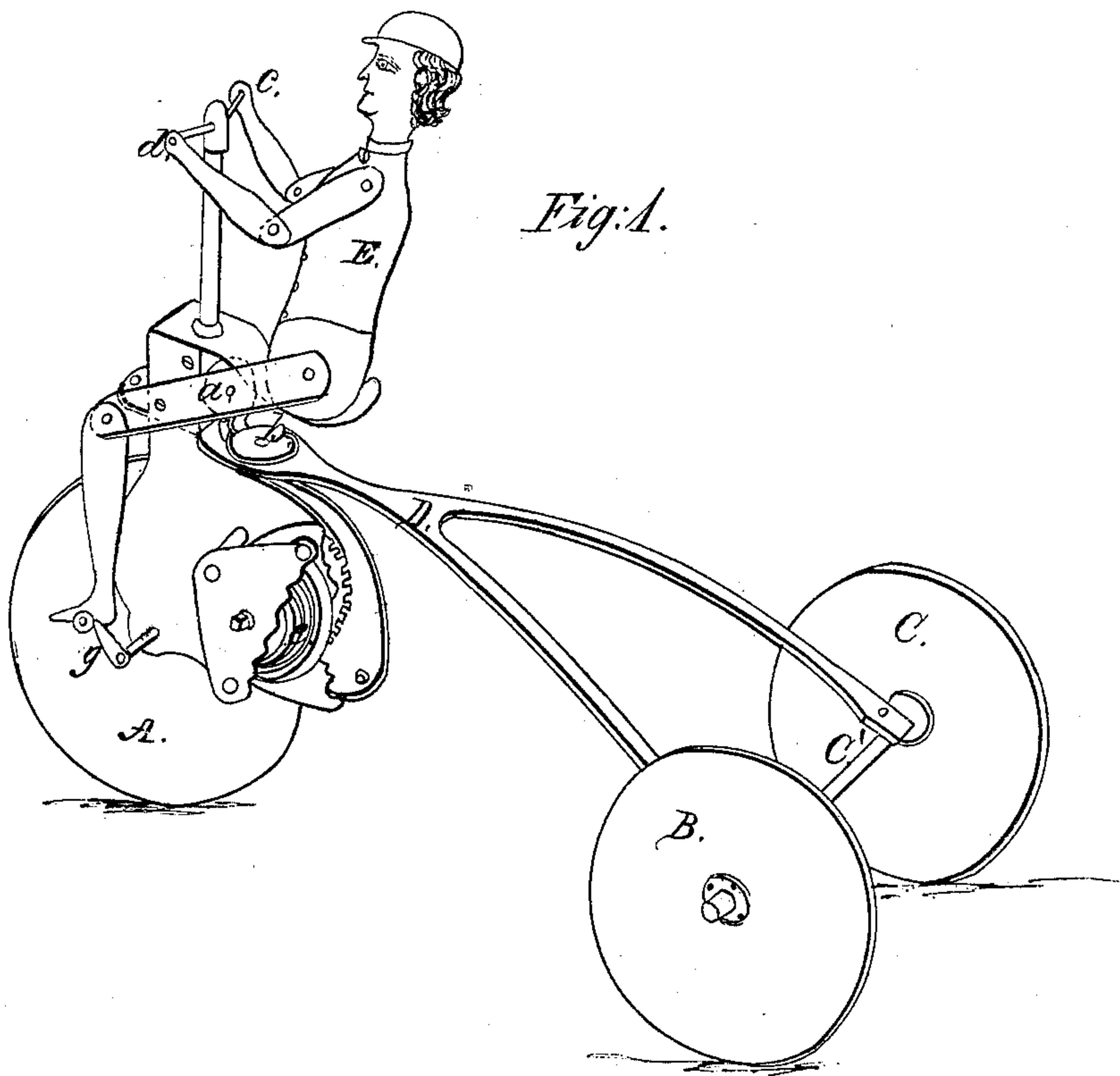


*N. S. Warner*

*Toy Velocipede.*

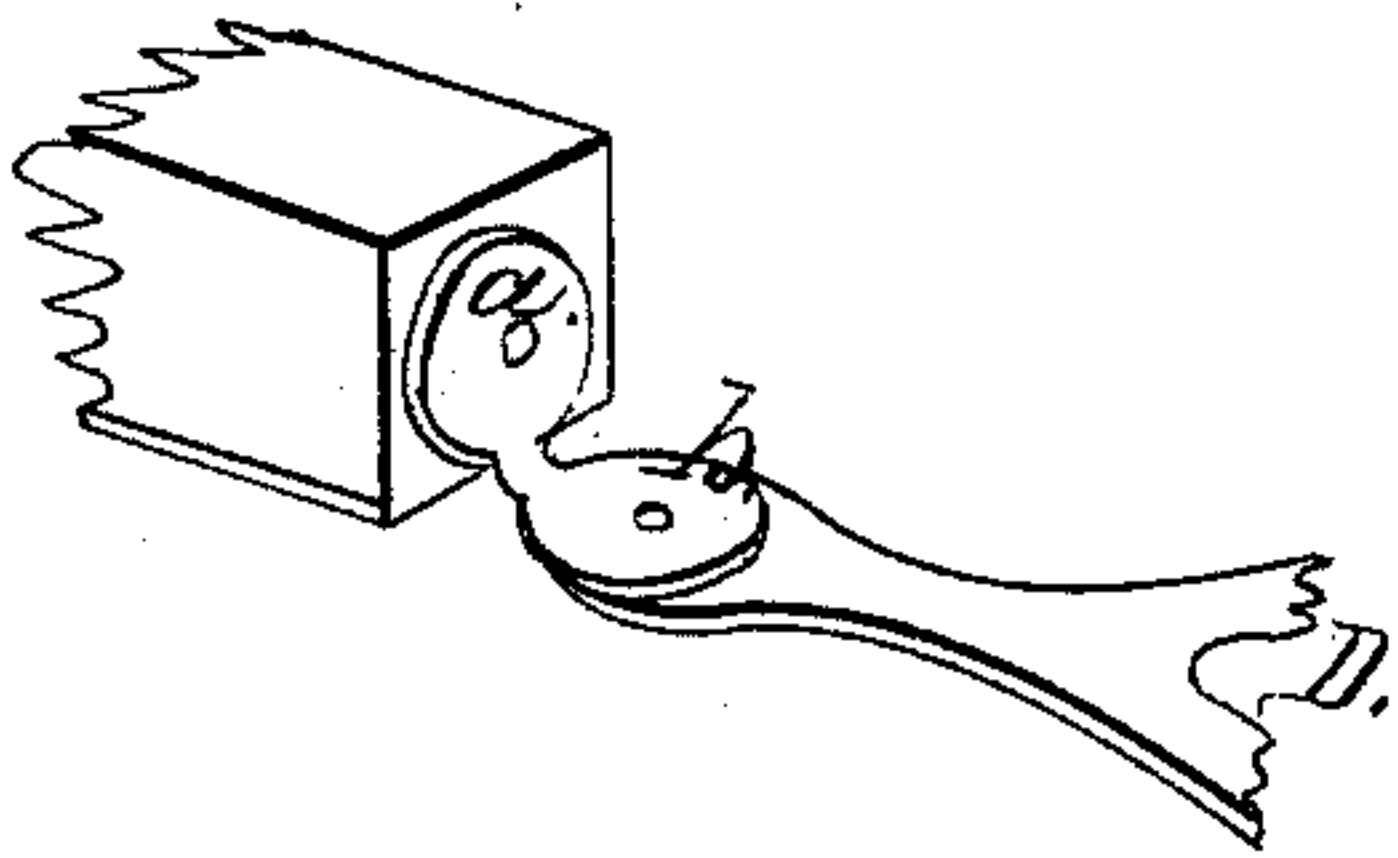
*N<sup>o</sup> 94,676.*

*Patented Sep. 7, 1869.*



*Fig: 1.*

*Fig: 2.*



*Witnesses:*

*M. H. Leewking  
R. S. Sutherland,*

*Inventor:*

*N. S. Warner*

# United States Patent Office.

NATHAN S. WARNER, OF BRIDGEPORT, CONNECTICUT.

Letters Patent No. 94,676, dated September 7, 1869.

## IMPROVEMENT IN A TOY-VELOCIPED.

The Schedule referred to in these Letters Patent and making part of the same.

### *To all whom it may concern:*

Be it known that I, NATHAN S. WARNER, of the city of Bridgeport, in the county of Fairfield, and State of Connecticut, have invented a new and useful Improvement in Toy-Velocipedes; and I do hereby declare that the following is a full, clear, and exact description of the construction, character, and operation of the same, reference being had to the accompanying drawings, which make part of this specification, in which—

Figure 1 is a perspective view of the toy complete, except a small part broken away to show the main spring and one of the gear-wheels which give the motion.

Figure 2 is a perspective view of a section of the same, showing the universal joint.

My improvement consists in the use of a universal joint, which allows the imitation-person to sit in any desired position, to represent the character of the real velocipede and its rider.

I make the toy-velocipede with three wheels, substantially as represented in fig. 1.

I connect the hind wheels with the front wheel and the imitation-person, by means of an axle, C', and the forked longitudinal bar D, and the universal joint at a

b, or by any plain joint; and I connect the bands c and d, of the image E, with a lever.

And I use a suitable spring, as represented at e, fig. 1, and suitable gear-wheels to give the necessary motion to the whole machine; and also, cranks, for the imitation-feet, as represented at g, fig. 1.

Having made the parts, and connected them, as before described, and represented in the drawings, I wind up the spring e in the usual way, and adjust the universal joint a b, or plain joints, to the desired curve, and set it upon a table, floor, or any other horizontal surface, when the toy will move in a circle of any desired radius, (or it may run in a right line, if desired,) producing a complete imitation of the operation of the common three-wheeled velocipede, worked by a live man.

I claim as my invention, and desire to secure by Letters Patent—

The universal joint a b, constructed as shown, when forming a part of a toy-velocipede.

N. S. WARNER.

Witnesses:

M. H. HAWKINS,  
R. FITZGERALD.