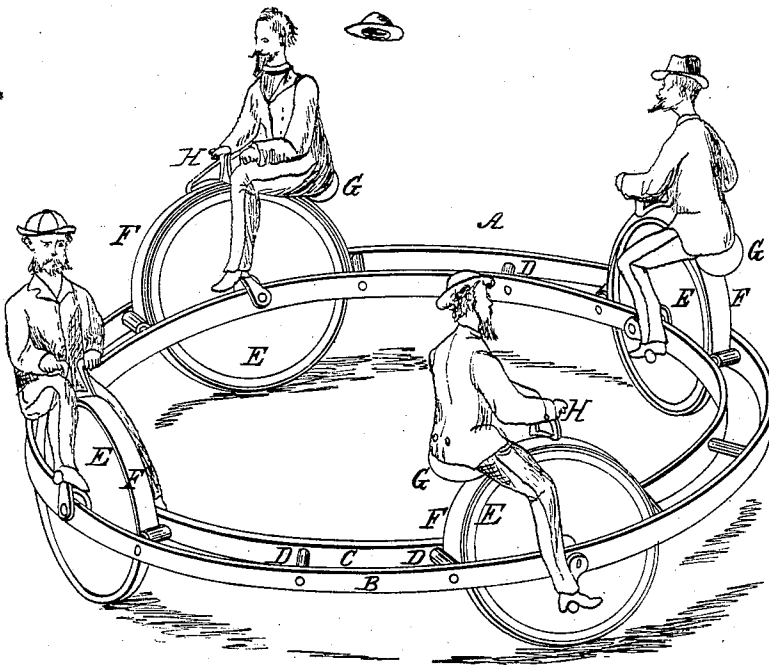


**STURDY & YOUNG.**

**Velocipede.**

No. 89,700.

Patented May 4, 1869.



*Witnesses:*

Gustave Dienerich  
John W. Brooks

***Inventors:***

J. J. Shurdy,  
 S. W. Young.  
 PER *[Signature]*  
 Attorneys

# United States Patent Office.

GEORGE J. STURDY AND SOLOMON W. YOUNG, OF PROVIDENCE,  
RHODE ISLAND.

*Letters Patent No. 89,700, dated May 4, 1869.*

## CIRCULAR VELOCIPÈDE.

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

*To all whom it may concern:*

Be it known that we, GEORGE J. STURDY and SOLOMON W. YOUNG, of Providence, Providence county, Rhode Island, have invented a new and useful Improvement in Velocipedes; and we do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawing, forming part of this specification.

This invention relates to a new and useful improvement in velocipedes, whereby they are better adapted to be employed as a medium of amusement and exercise for children and youth, as well as for "children of a larger growth." It is chiefly designed for use in playgrounds, lawns, gardens, and play-rooms; and

The invention consists in rotating a large horizontal wheel, formed of two concentric rings, tied together by bars, and supported on vertical wheels, each of which is revolved, by means of cranks, with the feet, after the manner of the common velocipede, thus rotating the main wheel, the construction, arrangement, and operation being as hereinafter more fully described.

The accompanying drawing is a perspective view of the combined velocipede, showing the manner of its construction and operation.

A represents the double-rimmed wheel, which may be made of any required diameter, and of any suitable material, and in any equivalent manner.

B is the outer, and C is the inner rim.

D represents the ties which connect the rims together. There may be more or less of these ties, but sufficient space must be left to admit the driving-wheels E, of which there may be more or less, according to the diameter of the main wheel A.

In this example of our invention, we show four driving-wheels, each of which revolves on a central axle, supported in or on the wheel A.

These wheels are revolved, by cranks, with the feet, as in the ordinary velocipede.

Over each of the driving-wheels E there is a semicircular shield or casing, F, which is attached, at its ends, to the main wheel A, and covers the periphery of those wheels above their centres, as seen in the drawing.

To these semicircular casings or shields the saddles G are attached, upon which the rider sits, as seen.

In front of the rider, on the top of these shields, handles H are attached, similar in appearance to those provided for steering the common velocipede; but, on

this machine, they are rigidly attached to the shield, as the machine will revolve in a circular track, and resembles, in its motion, the French "*carouselle*," or revolving floor, which has seats arranged near the edge, for those who desire to engage in the pastime, while the "*carouselle*" is revolved around a fixed centre, by power applied, through a crank, to a central post.

The driving-wheels in our velocipede may be of different diameters, by raising their axles on the main wheel in any suitable manner, the lower surface of all the wheels being kept on a level.

By such an arrangement, boys, as well as full-grown men, may partake of the exercise or sport, and afford propelling-power.

Intermediate seats may be arranged between the driving-wheels, for the accommodation of ladies and children.

The main wheel A may be made of any desired diameter, and may be connected, by arms, to a central post or pillar.

The interior of the main wheel may be floored over, whether attached to a central pillar or not, which would give additional accommodation.

By the use of this combined velocipede, the recreation and amusement afforded thereby are not confined to the male sex, nor to those who pride themselves upon their muscle. The latter may be usefully employed for the enjoyment of others.

We do not confine ourselves to propelling by the feet exclusively. The driving-wheels may be rotated by the hands, as in some descriptions of velocipede, or by the feet and the weight of the body combined, as in the rocking-saddle kind.

Having thus described our invention,

What we claim as new, and desire to secure by Letters Patent, is—

1. The main wheel A, the driving or velocipede-wheels E, the shield F, and handles H, constructed, arranged, and operating substantially as herein shown and described, and for the purposes set forth.

2. A velocipede formed of a horizontal wheel or rim, when supported on vertical wheels adapted to be rotated by means of cranks, substantially as set forth.

GEORGE J. STURDY.  
SOLOMON W. YOUNG.

Witnesses:

HENRY MARTIN,  
CHARLES T. MILLER.