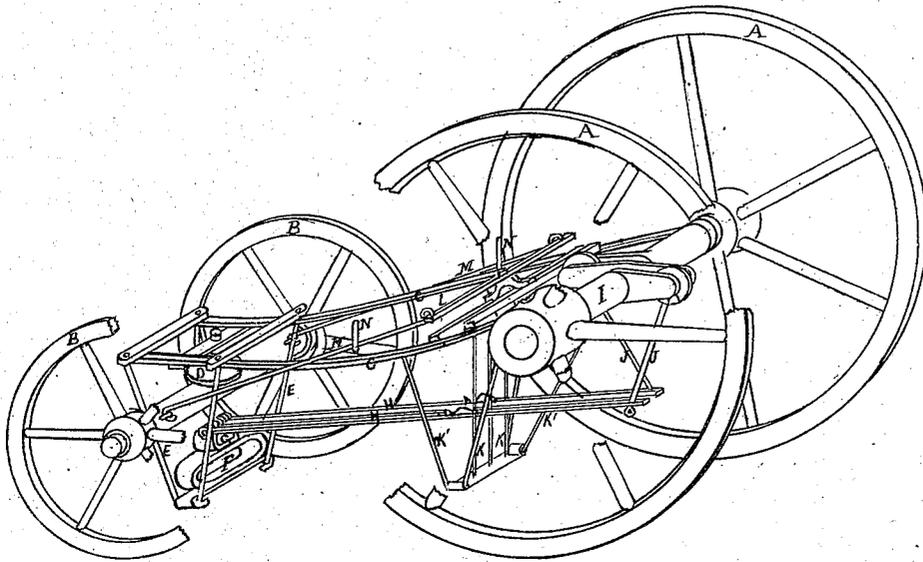


N. LANDRY.

Velocipede.

No. 94,899.

Patented Sept. 14, 1869.



Witnesses
Wm. Smith
Will Brooks

Inventor

N. Landry

United States Patent Office.

NORBERT LANDRY, OF SAN FRANCISCO, CALIFORNIA.

Letters Patent No. 94,899, dated September 14, 1869.

IMPROVED VELOCIPEDE.

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, NORBERT LANDRY, of San Francisco, in the county of San Francisco, and State of California, have invented certain new and useful Improvements in Velocipedes; and I do hereby declare that the following is a full and exact description of the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

The nature of my invention is to provide a velocipede that can be propelled by the joint action of the hands and feet, without the necessity of touching the feet to the ground as an auxiliary to its locomotion.

My machine may be propelled either end first, and is provided with two large wheels, A A, and two small wheels, B B, which latter may be denominated as supporting and steering-wheels. One of the large wheels is fast, and the other is loose on the crank-axle.

A light frame, C, is placed upon the axles, the rear ends of which pass around the crank-axle, to form journals.

The forward end of the frame rests upon a turn-plate, D, and a king-bolt passes through it, and enters the axle, allowing the forward wheels and axle to be cramped, or turned right or left.

From the lower end extend vertical supporting-braces E, in which rests a spring, F, and to the top of which is attached a bent plate, G, to which the treadles are pivoted.

The treadles H H extend to the double crank-axle I, to which they are connected by the jointed vertical arms J J.

These treadles work alternately up and down, by the action of the double cranks, between vertical rods K K, which are supported by braces K', attached to the under part of the frame.

For guiding the machine, a cross-bar, L, is pivoted to the top of the frame, and rods M M extend from it to the forward or straight axle, to which they are connected.

Near the centre of these guide-rods are placed upright arms or handles N N, which are grasped by the operator when working the machine, with the small wheels forward.

Only one of the large wheels is fast, and turns on the crank-axle, and the other is attached rigidly to its axis, as an auxiliary in turning the machine.

In its operation it is intended that the driver shall stand in the open space of the frame, and place his feet on the treadles, using the sides of the frame and the handles for a support and balance, while bracing and pulling with the hands and feet.

The large end of the machine will usually be headed in the direction of travel, and be propelled and guided by the joint action of the hands and feet; and when one treadle is up, and passing the dead-centre of the crank, the other or opposite lever has reached the end of its stroke.

It is intended by this construction of frame and its attachment, to provide a light, strong, and easy-running machine, and prevent much of the jar and vibration in passing over rough places, so incident to other devices of the same kind.

Having thus described my invention,

What I claim, and desire to secure by Letters Patent, is—

A velocipede, constructed substantially as described, consisting of four wheels, one fast and one loose, upon the double crank-axle I, the treadles H, supporting-braces E J J, spring F, and guiding-rod M M, with upright arms or handles N N, as and for the purpose set forth.

In witness whereof, I have hereunto set my hand and seal.

NOR. LANDRY. [l. s.]

Witnesses:

C. W. M. SMITH,
H. S. TIBBEY.