

E. J. BLOOD.  
 Velocipede.

No. 211,960.

Patented Feb. 4, 1879.

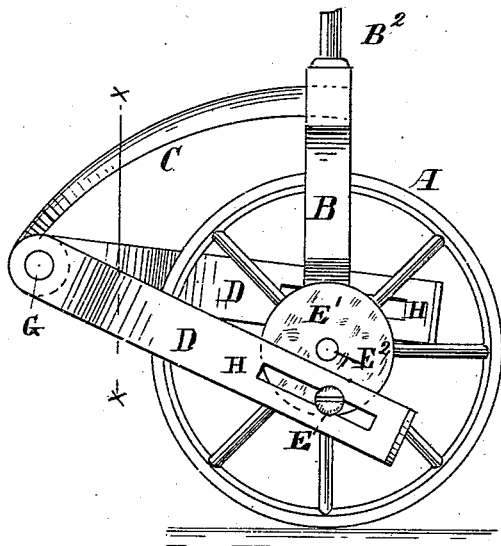


Fig 1

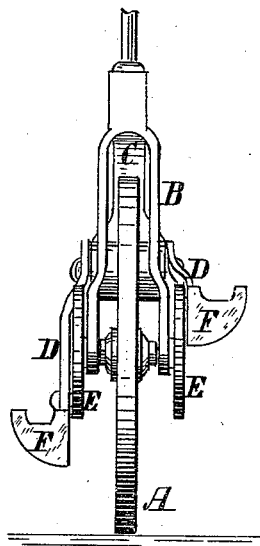


Fig 2

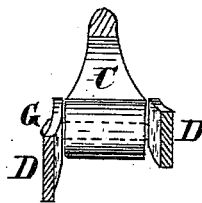
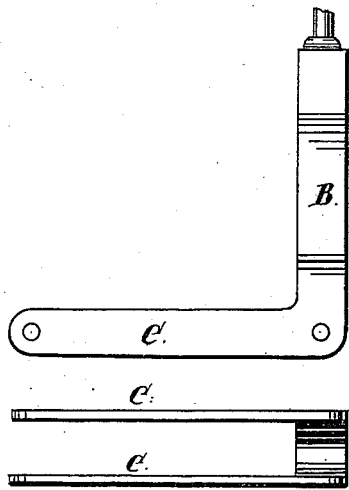


Fig 3

Fig. 4.

Witnesses

W. C. Coates

A. F. Bruns

Inventor

Edwin J. Blood

# UNITED STATES PATENT OFFICE.

EDWIN J. BLOOD, OF MUKWONAGO, WISCONSIN, ASSIGNOR OF ONE-HALF HIS RIGHT TO HERCULES H. CROCKER, OF CHICAGO, ILLINOIS.

## IMPROVEMENT IN VELOCIPEDES.

Specification forming part of Letters Patent No. **211,960**, dated February 4, 1879; application filed March 25, 1878.

*To all whom it may concern:*

Be it known that I, EDWIN J. BLOOD, of Mukwonago, in the county of Waukesha and State of Wisconsin, have invented a new and useful Improvement in the Mode of Propelling Velocipedes, of which the following is a specification:

The following is a description of the drawings accompanying my application and making a part thereof.

Figure 1 is an elevation of my invention, in connection with the driving-wheel of a common velocipede. Fig. 2 is a rear elevation of the same. Fig. 3 is a section of Fig. 1 at line *x x*. Fig. 4 is an elevation of a modification of the standard B and curved bar C.

The same letters denote identical parts in all the figures of the drawings.

This invention relates to velocipedes.

The object of my invention is so to improve the mechanism by which a common velocipede is driven as to avoid the circular motion of the foot of the driver and the danger and exhaustion attending the use of the velocipede constructed in the common mode. This I accomplish by means of the following-described invention.

B is the bifurcated standard of the forward or driving wheel of the common velocipede of either two or more wheels. B' is the stud of said standard B, to which the tiller and seat-bars connecting with the hind wheel or wheels are attached, as in the common velocipede. C

is a curved bar, rigidly inserted in the standard B, extending forward and downward, terminating in a thimble, C', through which passes the bolt G. D D are bars attached to the extended ends of the bolt G, and are provided with slots H, in which to allow the play of the crank-stud E, which is inserted in the crank-disk E', firmly attached to the spindle E<sup>2</sup> of the driving-wheel A. F is a foot-rest or shoe, attached to the bars D, by means of which the rider drives the velocipede by use of his feet.

Fig. 4 is a modification of the standard B and bar C as constructed of one piece of metal.

The operation of my invention is as follows: The rider, seated upon the seat as in the common velocipede, places his feet in the foot-rests F F, and, by bearing downward upon the same alternately one with the other, drives the velocipede in the required direction.

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

1. The bar C, in combination with the standard B and bars D D, as and for the purposes substantially as described.
2. The foot-rests F F, in combination with the bars D D, slots H H, and the crank-studs E E, as and for the purposes substantially as described.

EDWIN J. BLOOD.

Witnesses:

O. W. BOND,  
H. F. BRUNS.