

(No Model.)

A. VREELAND.

VELOCIPÈDE.

No. 265,722.

Patented Oct. 10, 1882.

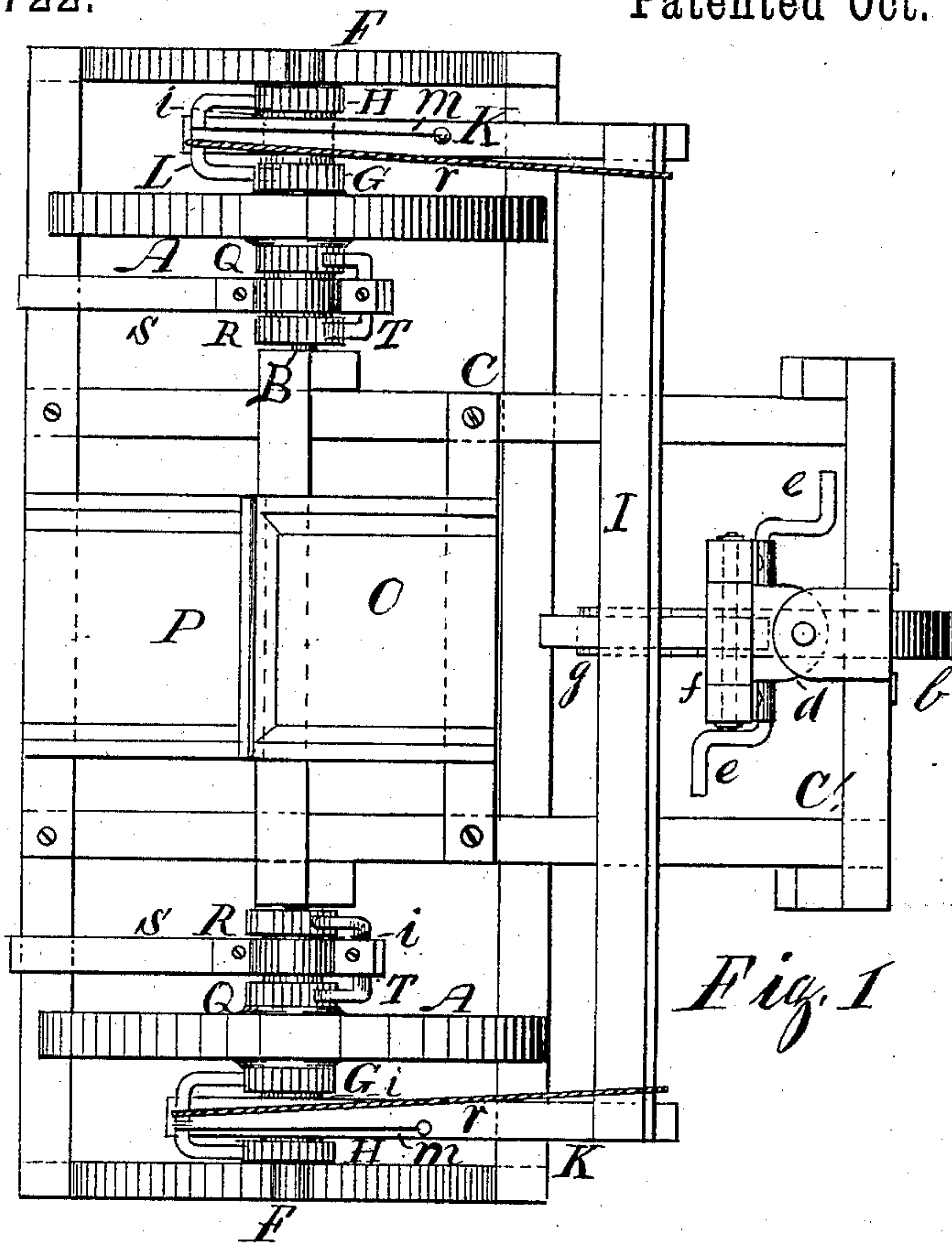


Fig. 1

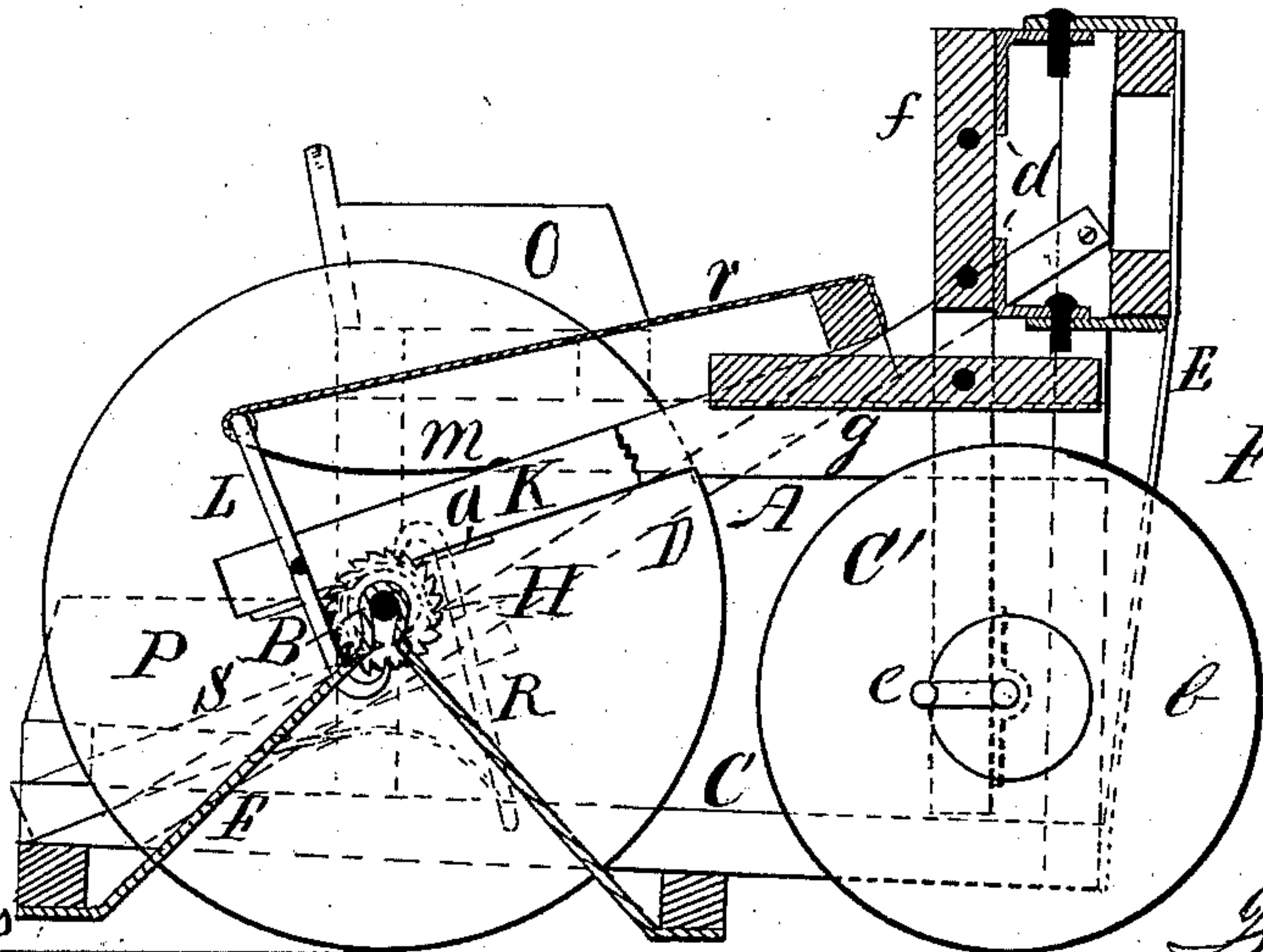


Fig. 2

Witnesses

R. S. Headman
J. H. Hauslyea

Inventor

Marion Vreeland
By Horace Harris
A. W.

UNITED STATES PATENT OFFICE.

AARON VREELAND, OF CEDAR GROVE, NEW JERSEY.

VELOCIPED.

SPECIFICATION forming part of Letters Patent No. 265,722, dated October 10, 1882.

Application filed June 12, 1882. (No model.)

To all whom it may concern:

Be it known that I, AARON VREELAND, of Cedar Grove, in the county of Essex and State of New Jersey, have invented a new and useful Improvement in Velocipedes, of which the following is a specification.

My invention relates to an improvement in three-wheel velocipedes; and it consists in the order of hanging the front or steering wheel, in the devices for applying the power to the driving-wheels, and in the order of operation, all substantially as hereinafter set forth.

Figure 1 is a plan. Fig. 2 is a side elevation, partly in section.

In my construction the driving-wheels A are hung on the shaft B, which is hung in the frame C, provided with the braces D and E and the stay-straps F, connected with the bed of the frame and the ends of the shaft. The wheels A are loose on the axle or shaft B and have a double ratchet-hub, G H, secured to the wheel, and having a sleeve, i, between the ratchets.

To operate the wheels, I attach to a frame having the cross-bar I and levers K a double cant-hook, L. The levers are hung loose on the sleeve i by a strap, a. The upper end of the cant-hooks is prevented from swinging out of place by a cord, r, extending from it and secured to the bar I, and the hooks are pressed out and held in proper working position by the springs M. The operation is by a person sitting in the seat O and raising the bar I, lying before him, which causes the hooks L to slip on the ratchets G H; but when he presses down on the bar the hooks will engage the ratchets and propel the vehicle. In addition to this a seat, P, may be placed on the rear portion of the frame for a second rider, sitting backward, and he may assist in propelling, for I may attach ratchet-wheels Q R on the inside of the wheels A the same as the hub-sections G H, and have the levers S within the reach of his

hands to operate the cant-hooks T in an order reverse to the others.

The steering-wheel b is hung to front portion, C', of the frame C by the double bracket-bearings d. A shaft through the wheel b has two cranks, e, which may be reached by the feet of the operator in seat O, and thereby he may assist his hand-power in propelling the velocipede.

The steering-wheel frame f is provided with the steering-piece g within the reach of the knees or hand of the operator, who by it will guide his velocipede at pleasure.

I claim—

1. In combination with the frame C, carrying the wheels A and the ratchet-wheels G H, the double cant-hooks L, operated by the lever K and cross-bar I, substantially as and for the purpose specified.

2. The double cant-hooks L, in combination with the ratchet-wheels G H, cords r, and springs m, and a suitable lever for operating them, substantially as and for the purpose set forth.

3. In combination with the frame C and wheels A, arranged and operated substantially as described, the ratchet-wheels Q R, cant-hooks T, and levers S, substantially as and for the purpose named.

4. The combination of the double cant-hooks L, operating the driving-wheels A by means of the ratchets G H and levers S in the exercise of hand-power, and the steering-wheel b, hung by the double bracket-bearings d in the frame f to the frame C, said steering-wheel carrying the cranks e for the exercise of foot-power, substantially as and for the purpose specified.

AARON VREELAND.

Witnesses:

HORACE HARRIS,
R. S. STEADMAN.