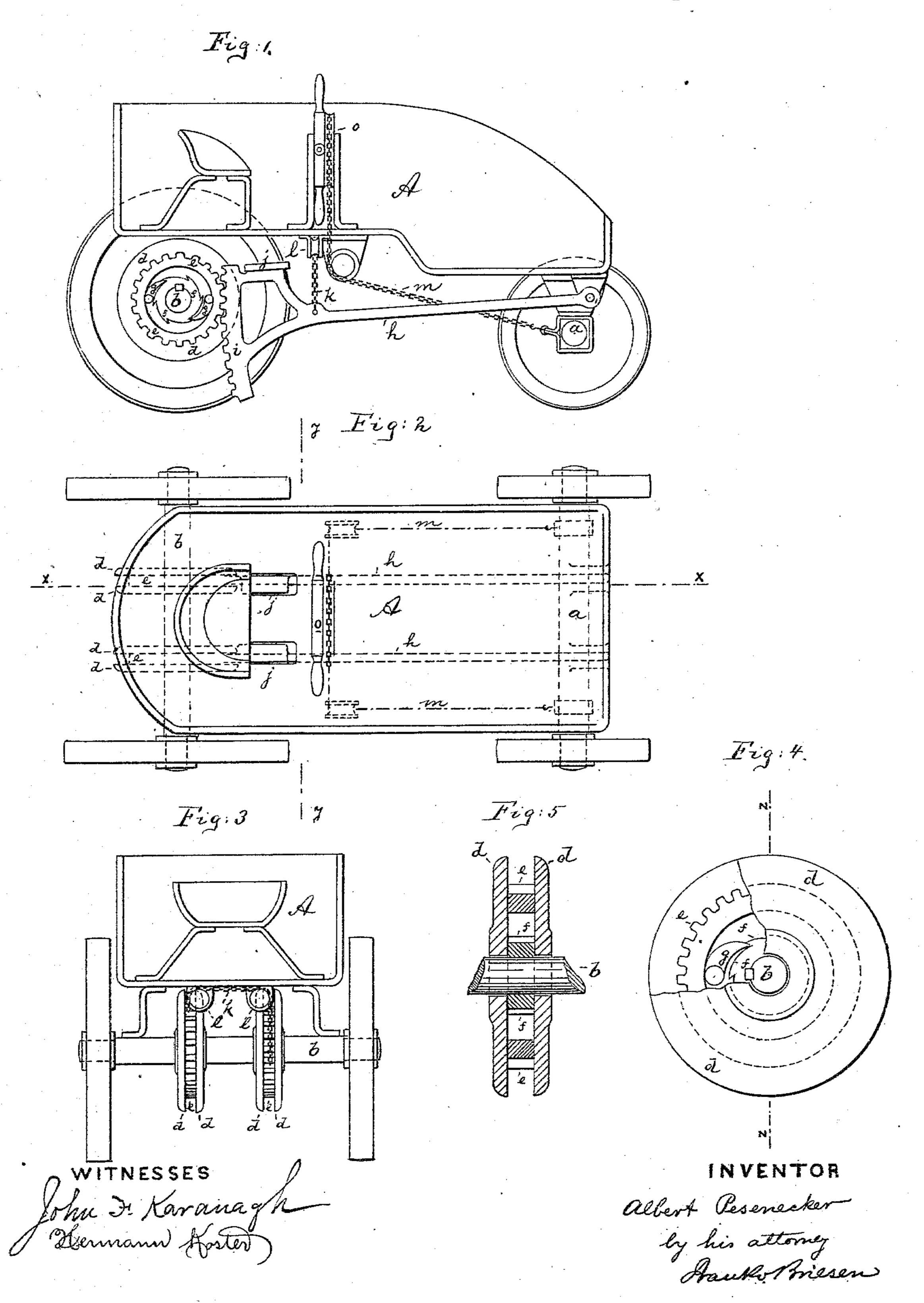
A. PESENECKER.

VELOCIPEDE.

No. 296,776.

Patented Apr. 15, 1884.



United States Patent Office.

ALBERT PESENECKER, OF NEW YORK, N. Y.

VELOCIPEDE.

SPECIFICATION forming part of Letters Patent No. 296,776, dated April 15, 1884.

Application filed September 7, 1883. (No model.)

To all whom it may concern:

Be it known that I, ALBERT PESENECKER, of the city of New York, county and State of New York, have invented a new and Im-5 proved Vehicle, of which the following specification is a full, clear, and exact description.

This invention relates to an improved vehicle which is propelled and steered by its oc-

cupant.

The invention consists, principally, of the combination, in a velocipede, of ratchetwheels rigidly secured to rear axle, with loose annular cog-wheels, and disks fastened to both sides of cog-wheels, and with foot-levers en-15 gaging said cog-wheels.

The invention also consists in the details of improvement hereinafter more fully pointed

out.

In the accompanying drawings, Figure 1 is 20 a longitudinal vertical section of my improved vehicle on the line x x, Fig. 2. Fig. 2 is a top view of the same; Fig. 3, a vertical transverse section on the line y y, Fig. 2. Fig. 4 is a detail side view of the mechanism 25 for transferring motion from the foot-levers to the wagon-axle, and Fig. 5 a transverse central section on line n n, Fig. 4.

Similar letters of reference indicate corre-

sponding parts in all the figures.

30 The letter A represents the body of the vehicle, a being the front and b the rear axle.

Upon the axle b turn loosely two pairs of

disks or cheek-pieces. dd.

e e are two annular cog-wheels situated, re-35 spectively, between each pair of disks d, and rigidly fastened to and connecting the same. The disks d project beyond the circumference of the cog-wheels e, so as to protect them from

dirt or injury.

Between each pair of disks d d, and concentric to and within the annular cog-wheel e, is rigidly fastened around axle b a ratchetpawls, g, pivoted to the inner side of one of 45 the disks d. It will be seen that when the disks d and cog-wheels e are revolved forward, the pawls g will engage the ratchetwheels f and cause them to likewise revolve forward, and thereby to turn the axle b. When, 50 however, the wheels e are revolved backward, the pawls g will not engage the teeth of the ratchet-wheels f, and consequently no motion will be imparted to axle b.

Motion is imparted to the cog-wheels e as follows: h h are two levers, pivoted near the 55 front of the carriage, parallel to each other, and terminating each in a toothed segment, i, which engages the teeth of the cog-wheel e. Each lever h is forked near its end, as shown, and is provided with a foot-rest, j, on its up- 60 per edge. k is a chain running transversely across the bottom of the carriage-body, over friction-rollers l l, and connecting the levers h. The operator, seated near the back of the carriage, steps alternately upon the foot-rests of 65 the levers h. When he steps upon the right lever and forces said lever down, the chain kwill be drawn up at the left side, and thereby draw the left lever, h, up with it, and vice versa. In this way the operator will alter- 70 nately lower and raise the levers h, and thereby revolve the cog-wheels e forward and backward; but the cog-wheels e will, when revolving forward, by pawls g, as heretofore described, revolve ratchet-wheels f forward, and 75 thereby propel the carriage. Inasmuch as one of the wheels e will always revolve forward, continuous forward motion is imparted to the carriage.

The steering of the vehicle is effected by a 80 chain, m, attached near the two ends of the front axle, a, and running over a steeringwheel, o, in front of the driver's seat. Of course the bottom of the carriage-body is slotted above each foot-rest j, so that the oper- 85

ator's feet can reach the same.

I claim as my invention— 1. The combination, in a velocipede, of axle b, having ratchet wheels f rigidly secured thereto, with the loose annular cog-wheels e 90 and disks d, fastened to both sides of cogwheels, and having pawls g, and with the footlevers h, engaging cog-wheels e, substantially as specified.

2. The combination of axle b, ratchet-wheels 95 wheel, f, which is engaged by one or more |f|, cog-wheels e, disks d, and pawls g, with the foot-levers h, and with the chain k, connecting the foot-levers and passing over friction-rollers

l, substantially as specified.

ALBERT PESENECKER.

Witnesses:

F. v. Briesen, ROBERT H. ROY.