

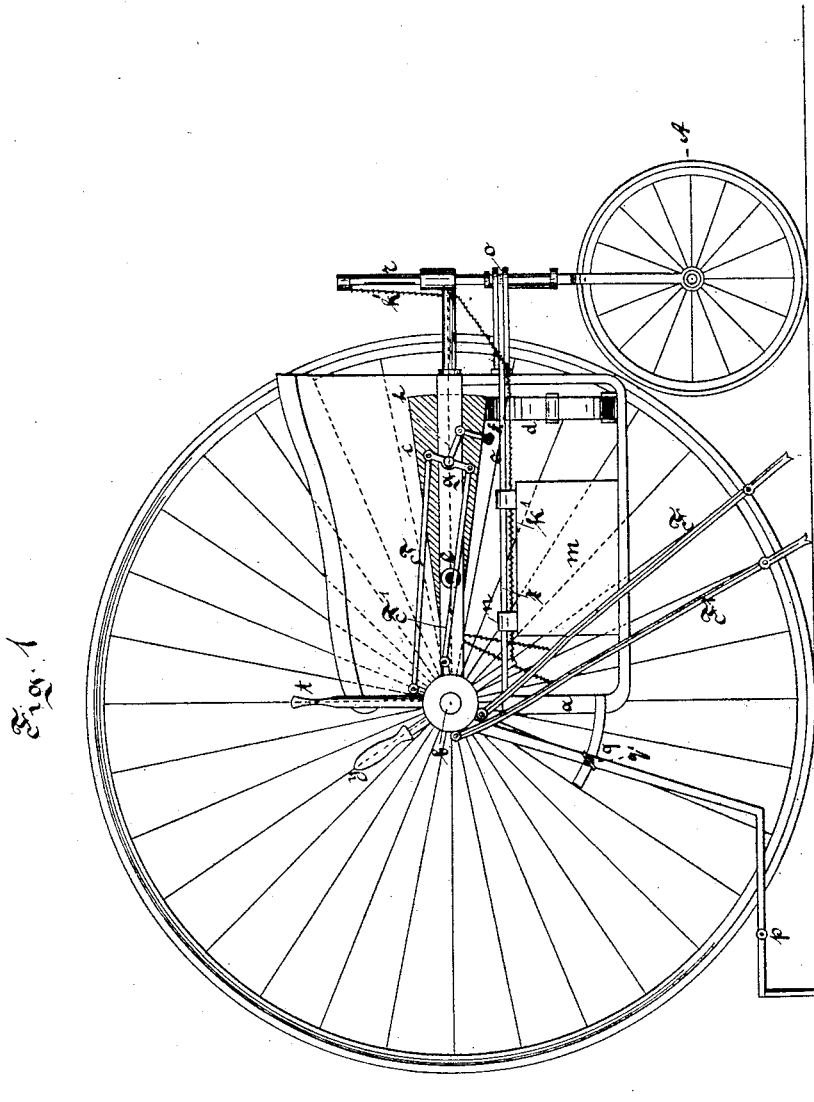
(No Model.)

3 Sheets—Sheet 1.

J. M. GOLDERER.  
VELOCIPEDÉ.

No. 455,438.

Patented July 7, 1891.



Witnesses:  
T. J. Coan.  
A. Jonghman.

Inventor:  
J. M. Golderer  
by his attorneys  
Rosen & Bissell

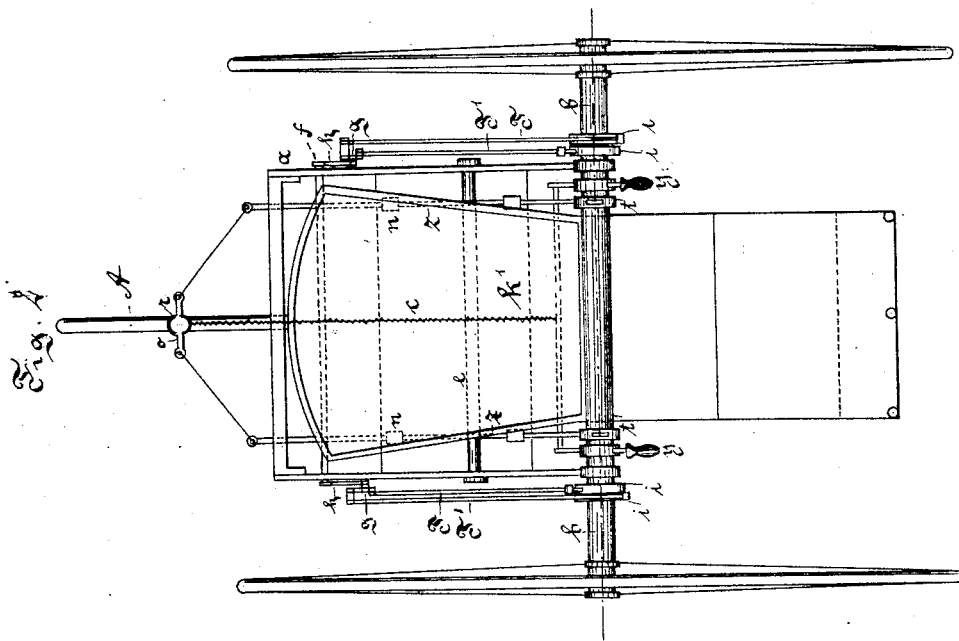
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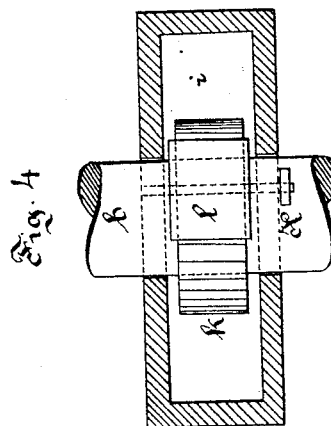
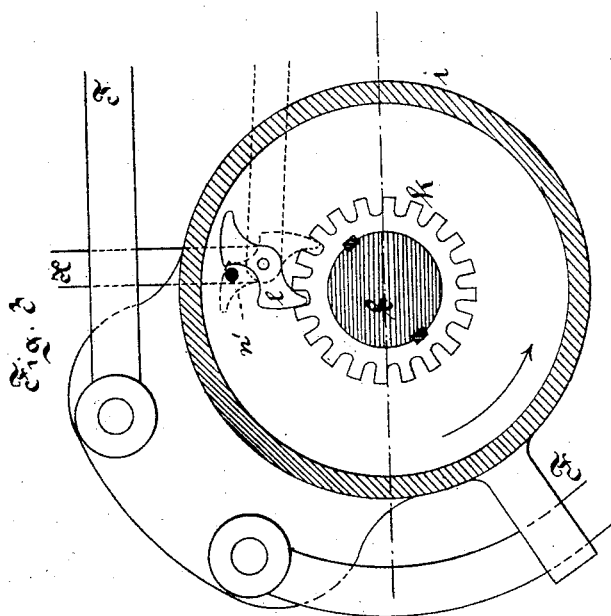
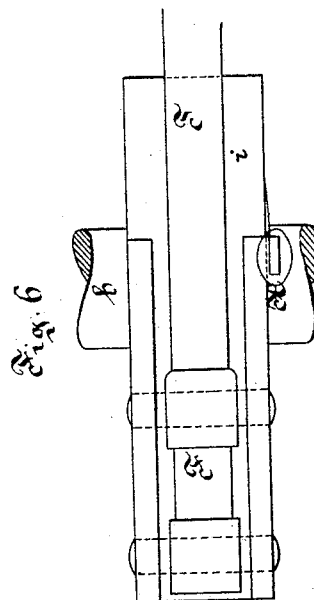
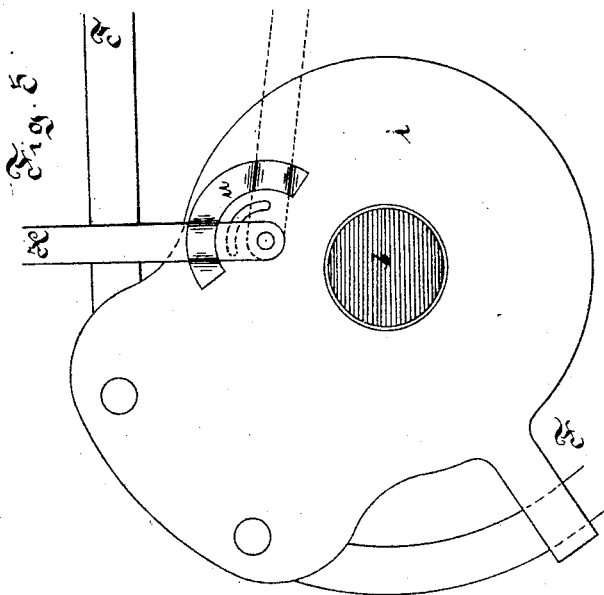
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3 Sheets—Sheet 3.

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Witnesses:  
T. J. Coan.  
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Inventor:  
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# UNITED STATES PATENT OFFICE.

JOHANN M. GOLDERER, OF STRAUBING, GERMANY.

## VELOCIPEDÉ.

SPECIFICATION forming part of Letters Patent No. 455,438, dated July 7, 1891.

Application filed January 27, 1891. Serial No. 379,347. (No model.)

*To all whom it may concern:*

Be it known that I, JOHANN MATHIAS GOLDERER, a resident of Straubing, Bavaria, Germany, have invented certain new and useful  
5 Improvements in Velocipedes, of which the following is a specification.

This invention relates to a tricycle that is propelled by an up-and-down motion of the trunk of the rider.

10 The invention consists in the various features of construction more fully pointed out in the claims.

In the accompanying drawings, Figure 1 is a side elevation of my improved velocipede.

15 Fig. 2 is a top view thereof; Fig. 3, a detail longitudinal section through box *i*. Fig. 4, a detail transverse section of the same; Fig. 5, a side view, and Fig. 6 a top view thereof.

The letter *a* represents a chair provided  
20 with seat *c* and a suitable baggage-receptacle *m*. The seat *c* turns in the front around a shaft *e*, and is supported at the rear by a spring *d*. The seat *c* engages rod *f*, connected to elbow-levers *h*, that turn around fulcrums  
25 *g*. The levers *h* are connected to a pair of draw-bars *T T'*, the forward ends of which are pivoted to boxes *i*, that are free to oscillate on the main axle *b*. To the boxes *i* there are pivoted the double-pointed clicks *l*, the motion of which is limited by stops *n'*, that engage the ratchet-wheels *k*, fast on shaft *b*. If  
30 the rear portion of seat *c* is depressed by a corresponding motion of the body of the rider, the rods *f* oscillate elbow-levers *h*, and the latter by rods *T* revolve boxes *i*. In this way the clicks *l*, secured to the boxes, push the ratchet-wheels *k* forward to propel the vehicle. When the rider raises his body to release the seat, the spring *d* throws the latter up and the  
40 rods *T* will now propel the vehicle.

The machine is steered by rods *Z Z*, passing through eyes *n* of box *m*. The front ends of these rods are connected to levers *t*, that embrace axle *b*, while the rear ends of the  
45 rods are connected to the cross-bar *o* of the steering-wheel *A*. If one of the levers *t* is

oscillated forward and the other lever is oscillated backward, the steering-wheel is turned.

On riding over a grade it is desirable to have the wheel *A* adjustable vertically. To  
50 this effect its post *r* is by chain *k'* connected to two levers *y* free to revolve around axle *b*. By turning the levers in one direction the wheel *A* is raised, and by swinging them in the other direction the chain is slackened to  
55 permit the wheel to descend.

*F F'* are levers pivoted to the boxes *i*, and designed to stem against the ground to aid in propelling the machine. The foot-board  
60 *p* is adjustable by means of set-screws *q'*, passing through curved slotted arms *q*.

If the motion of the machine is to be reversed, the clicks *l* are reversed by levers *H*. These levers are locked in position by spring-plates *u*, secured to boxes *i*, Fig. 5.  
65

What I claim is—

1. The combination of pivoted seat *c* with a supporting-spring *d* and with draw-bars *T T'*, operated by the seat, boxes *i*, clicks *l*, and  
70 toothed wheels *k*, that are mounted on shaft *b*, substantially as specified.

2. The combination of pivoted seat *c* with spring *d*, rods *f*, angle-levers *h*, and draw-bars *T T'*, and with the boxes *i*, clicks *l*, and toothed  
75 wheels *k*, that are mounted on shaft *b*, substantially as specified.

3. The combination of steering-wheel *A* with post *r*, chain *k'*, and with lever *y* for adjusting the wheel vertically, substantially as  
80 specified.

4. The combination of boxes *i* with clicks *l*, toothed wheels *k*, stops *n'*, springs *u*, and levers *H* for reversing the clicks, substantially as specified.

In testimony that I claim the foregoing as  
85 my invention I have signed my name in presence of two subscribing witnesses.

JOHANN M. GOLDERER.

Witnesses:

PATER RAYMUND KRILGER,  
FR. COSMAS HEINCE.