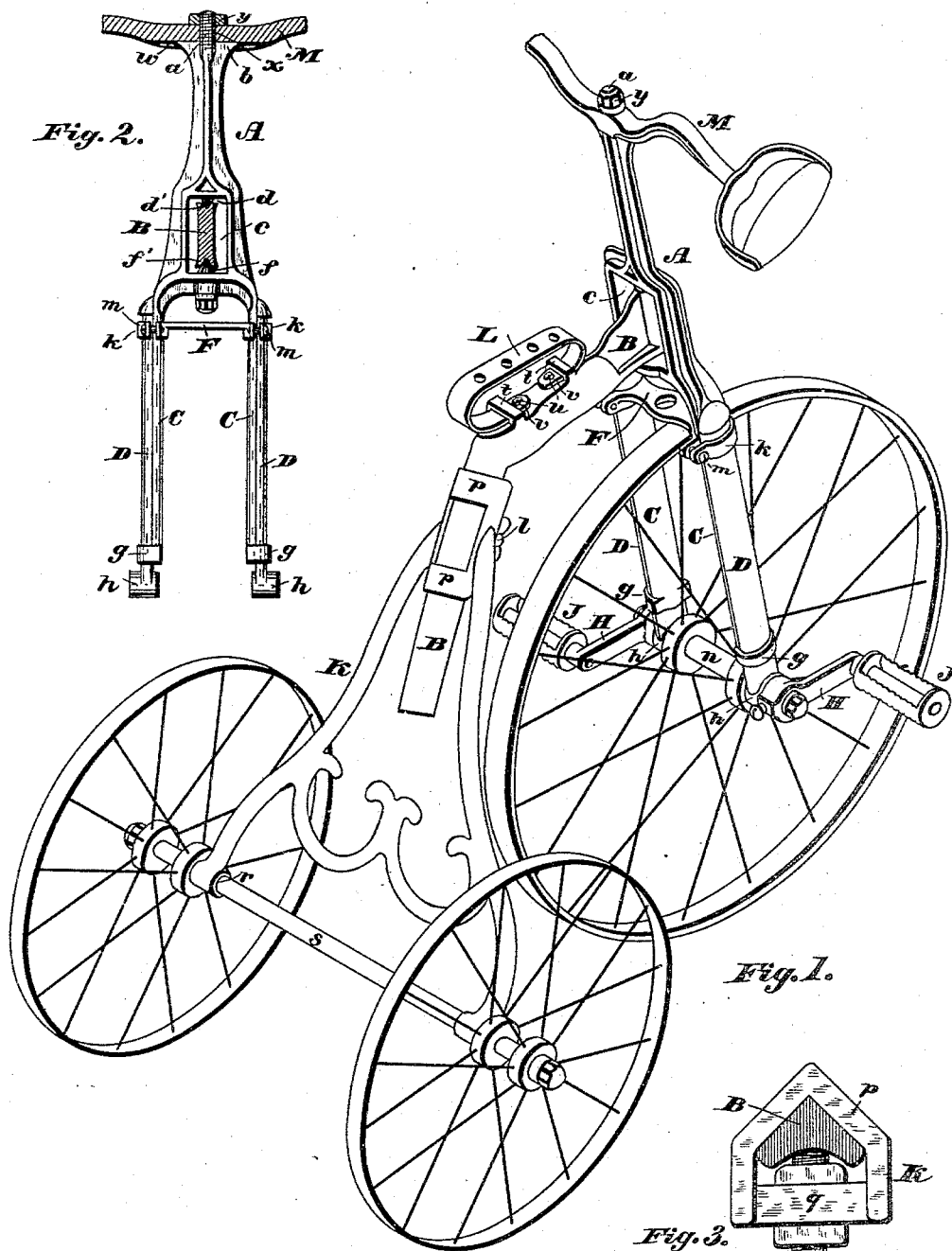


(No Model.)

M. SLUTZ.
TRICYCLE.

No. 381,590.

Patented Apr. 24, 1888.



WITNESSES:

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TRICYCLE.

SPECIFICATION forming part of Letters Patent No. 381,590, dated April 24, 1888.

Application filed January 3, 1888. Serial No. 259,713. (No model.)

To all whom it may concern:

Be it known that I, MARION SLUTZ, a citizen of the United States, and a resident of Canton, county of Stark, State of Ohio, have

5 invented a new and useful Improvement in Tricycles, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, making part of this specification.

10 My invention relates to improvements in tricycles; and it consists in providing means for adjusting the frame and for securing the several parts in adjustment, as hereinafter described.

15 My invention further relates to the manner of securing the seat-spring and the handle-bar to the frame, also to the construction of detail and combination of parts, as hereinafter set forth, and described in the claims.

20 Figure 1 is an isometrical view of a tricycle, illustrating my invention. Fig. 2 is an elevation of front frame, and Fig. 3 a cross-section of back frame or hounds.

25 Similar letters of reference indicate corresponding parts in all of the figures of the drawings.

A represents the front frame having at its upper end a threaded extension, *a*, and projecting shoulders *b*, and at its middle portion 30 an aperture, *c*. At the upper end of said aperture is provided a downwardly-projected pivot, *d*, and at the bottom end a pointed or conical ended set-screw, *f*. These pivotal points are adapted to conical sockets *d'* and *f'* 35 on the under and upper side of the front portion of the back frame, B.

The lower portion of the frame A is bifurcated, the prongs C being oval on the inside and flat on the outside, and provided at the 40 lower end with an oval loop, *g*. Overlapping slides D, flat on their inside and oval on their outside and having journal-boxes *h* on their lower ends, are provided, as shown. The said slides are passed up through the loops *g*, the 45 flat part of the slide D resting on the flat part of the prong C and held in adjustment by the yoke E, the bows *k*, clasp the prong C and slide D, are secured by the bolts *m*. The axle *n* of the wheel G is supported by and rotated 50 in the journal-boxes *h*. On the end of said axle is secured a crank, H, and pedals J.

The rear portion of the back frame, B, is in the form of a V or angle bar, as shown in cross-section, (see Fig. 3,) and passes through loops *p* on the forward portion of hounds-frame K. 55 A bridge, *q*, connects the lower edges of the frame between the loops *p*, as shown in Fig. 3. Said bridge is provided with a threaded perforation, into which the thumb or set screw *l* is turned, and by which the parts are secured 60 in desired adjustment. On the rear portion of the frame K is provided perforations *r*, in which the axle *s* is secured.

To secure the seat-spring L to the back frame, B, loops *t* and hooks *u* are provided, 65 as shown, and integral therewith, the end of the spring, having perforations *v*, is passed through the loop *t*, the hooks *u* through the perforation, and when the spring is released the energy being exerted outwardly will draw 70 the end under the hook, by which it is secured. The back frame, B, is secured to the frame A by the pivots *d* and *f*, as shown in Fig. 2.

The handle-bar M is provided with a groove, 75 *w*, and perforation *x*, that fit onto the pin *a* and the shoulders *b*. The shoulders resting in the groove prevent the handle turning on the pin *a*, the nut *v* securing the handle to the shoulders. 80

The object of my invention is to provide a tricycle that may be enlarged or contracted as required to adapt it to the rider.

To enlarge the machine it is only necessary to slack the bolts *m* in the bows *k* of the yoke 85 E, and to push the yoke down to the desired point, at which it may be secured by turning the bolts in again; and to further enlarge it the screw *l* may be slacked and the frame K moved down on the back frame and secured in 90 desired adjustment, and to reduce the size slide the adjustable parts together.

In order to produce a light yet strong and durable machine and to reduce initial cost the frame is preferably made of malleable cast-iron. 95

Having thus fully described the nature and object of my invention, what I claim, and desire to secure by Letters Patent, is—

1. The combination, in a tricycle, of a bifurcated front frame, the prongs of which are made 100 in sections, one of said sections provided with a journal-box for the axle-shaft, the other with

a securing-loop, and the yoke F, having the clasp-bows *k*, and the set-screw *m*, by which the parts may be secured in adjustment, substantially as described, and for the purpose set forth.

2. The combination, in a tricycle, of a back frame formed of two sections, B and K, the rear portion of section B of a V or angle form and the front portion of section K having a corresponding socket, and the screw *l*, by which the two frames may be secured in desired adjustment, substantially as described, and for the purpose set forth.

3. In a tricycle, the combination of the back B, spring L, loops *t*, and the hooks *u*, substan-

tially as described, and for the purpose set forth.

4. In a tricycle, the combination of a handle-bar having a groove, *w*, the frame A, shoulders *b*, extending in opposite directions between the walls of the groove, threaded pin *a*, and a nut, *g*, substantially as shown and described, and for the purpose set forth.

In testimony whereof I have hereunto set my hand this 30th day of December, A. D. 1887.

MARION SLUTZ.

Witnesses:

CHAS. N. MILLER,
W. K. MILLER.