

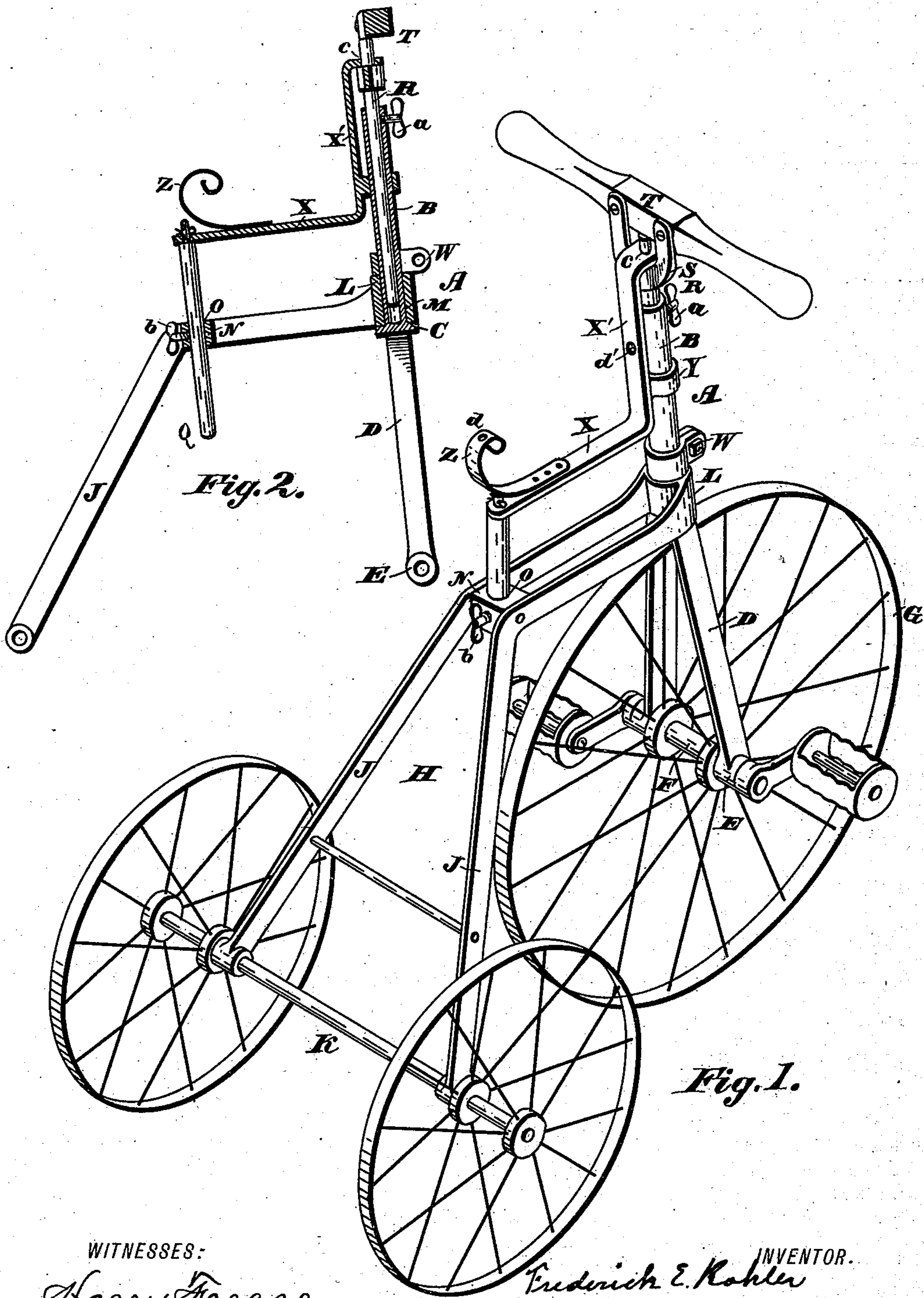
(No Model.)

F. E. KOHLER.

TRICYCLE.

No. 381,144.

Patented Apr. 17, 1888.



WITNESSES:

Harry Grease
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UNITED STATES PATENT OFFICE.

FREDERICK E. KOHLER, OF CANTON, OHIO.

TRICYCLE.

SPECIFICATION forming part of Letters Patent No. 381,144, dated April 17, 1888.

Application filed January 9, 1888. Serial No. 260,259. (No model.)

To all whom it may concern:

Be it known that I, FREDERICK E. KOHLER, a citizen of the United States, and a resident of Canton, county of Stark, State of Ohio, have 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.

My invention relates to improvements in tricycles; and it consists in providing means by which the seat may be raised vertically for the purpose of adapting the machine to the size of the rider by increasing or decreasing the space between the seat and the axle of the front wheel.

My invention also relates to the construction of detail and combination of parts, as hereinafter described, and set forth in the claims.

Figure 1 is an isometrical view of a tricycle, illustrating my invention. Fig. 2 is an elevation of a fragment of same, partly sectional.

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

A represents the front frame. The upper portion, B, is cylindrical or pipe form, terminating at its lower end in a shoulder, C, at which point the frame is bifurcated, the prongs D having on their lower ends journal-boxes E for the axle F of the front wheel, G. On the ends of said axle cranks and pedals are provided, substantially as shown.

The hounds or back frame, H, is composed of side bars, J J, the rear ends adapted to embrace and support the axle K. The upper or front portion of said bars terminate in a head, L, having a cylindrical aperture, M, adapted to the pipe portion B of the frame A at such distance from the head as may be preferred. The bars J are secured by a bridge piece, N, having a vertical aperture, O, and thumb-screw b, by which the seat-supporting rod Q is secured in desired adjustment.

The handle-bar support R is provided at its upper end with a bifurcated head-piece, S, to the prongs of which the handle T is secured.

To put the machine together, the pipe portion B of the frame A is passed through the

head L, as shown, and secured in position by the clip W. The handle-bar support R is then placed in the pipe and secured by the thumb-screw a. A seat-support, X, of the form substantially as shown, is provided, having a loop, Y, to loosely embrace the pipe B, and an upwardly-projected portion, X', having at its upper end a perforation, c, through which the upper end of the handle-support is passed, as shown. The seat-spring Z is secured to the support X, and the seat, which is left off in this case, is secured to the spring and support by bolts in the perforations d d'.

To change the height of the seat to adapt the machine to the rider, loosen the thumb-screws a and b and raise or lower the handle-bar, as the case may be, and secure the parts in adjustment by tightening the thumb-screws.

It will be noticed that this adjustment will in no way interfere with the running-gear of the machine, as in those formerly made, wherein the adjustment involved the movement of the axle-support, and in this case the adjustment can be made more quickly and with greater safety to the machine.

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

1. In a tricycle, the combination of a front frame, a back frame, a vertically-adjustable handle-bar support, and a seat-support connected with the vertically-adjustable handle-bar support and the back frame, the connection of the seat-support with the back frame being vertically adjustable, substantially as set forth.

2. In a tricycle, the combination of a bifurcated front frame having an upwardly-extended pipe-section, a handle-bar support vertically adjustable in said pipe-section, a back frame pivotally secured to the front frame, a vertically-adjustable post in connection with the back frame, and a seat-support connecting said post and the vertically-adjustable handle-bar support, substantially as set forth.

3. In a tricycle, the combination of a bifurcated front frame provided with shoulders, a back frame, pivotally secured to the front frame and seated on said shoulders, the said back frame consisting of a pair of branches

extending from the socket L, which embraces the front frame to the rear axle, a combined brace and seat-post support, N, interposed between the branches, a seat-post secured in said support in vertical adjustment, a handle-bar support, and a seat-support connecting the said vertically-adjustable post and the handle-bar support, substantially as set forth.

In testimony whereof I have hereunto set my hand this 31st day of December, A. D. 1887.

FREDERICK E. KOHLER.

Witnesses:

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