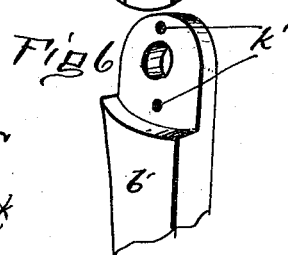
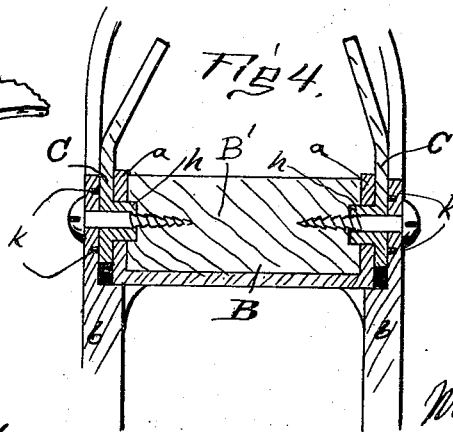
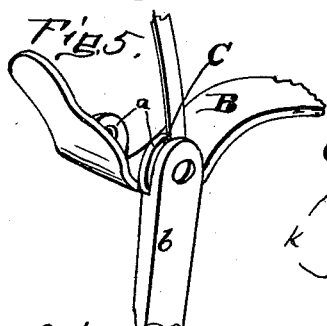
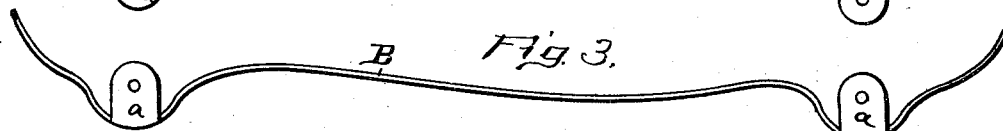
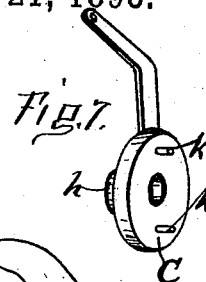
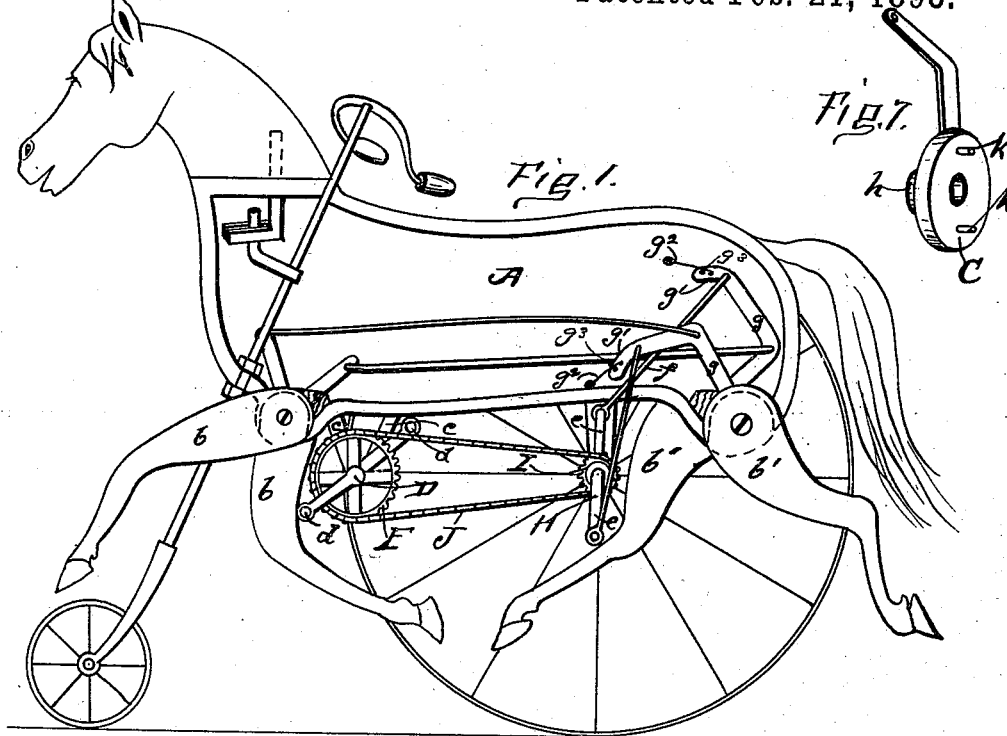


(No Model.)

W. V. SNYDER.  
TRICYCLE.

No. 492,063.

Patented Feb. 21, 1893.



Witnesses.  
D. Cross.  
Laura Shaffer.

Inventor.  
Waldo V. Snyder  
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His Attorney

# UNITED STATES PATENT OFFICE.

WALDO V. SNYDER, OF CANTON, OHIO.

## TRICYCLE.

SPECIFICATION forming part of Letters Patent No. 492,063, dated February 21, 1893.

Application filed September 8, 1892. Serial No. 445,300. (No model.)

*To all whom it may concern:*

Be it known that I, WALDO V. SNYDER, a citizen of the United States, residing at Canton, in the county of Stark and State of Ohio, have invented certain new and useful Improvements in Tricycles; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters of reference marked thereon, in which—

Figure 1, is a longitudinal section showing the arrangement of the mechanism for communicating movement to the legs. Fig. 2, is a detached view of the center-bar. Fig. 3, is an edge view showing the side projections bent in proper position for attaching the legs. Fig. 4, is a transverse section of the body, showing the location and arrangement of one pair of legs. Fig. 5, is a view showing a portion of the center-bar, and a leg properly attached. Fig. 6, is a detached view showing the top or upper portion of one of the legs. Fig. 7, is a detached view of the leg attaching-disk and its operating arm.

The present invention has relation to tricycles, and it consists in the different parts and combination of parts hereinafter described and particularly pointed out in the claims.

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

In the accompanying drawings, A represents the body, which is preferably formed in sections or halves, and the sections or halves united together in any convenient and well known manner.

For the purpose of providing a means for easily attaching the different parts designed and calculated to communicate movements to the legs, the center-bar B is provided; which center bar is securely attached to the body A, substantially as illustrated in Fig. 4. The center-bar B, is provided with the side extensions *a*, which may be originally formed in the position illustrated in Fig. 2. and said extensions bent at right angles to the center-bar B, substantially as illustrated in Fig. 3, and are for the purpose of receiving the leg attaching disks C, which leg attaching disks

are located, when placed in proper position as illustrated in Figs. 4 and 5. The object and purpose of providing the leg attaching disks C, is to provide a means for removably attaching the legs *b* and *b'*.

The pedal shaft D, is located substantially as shown in Fig. 1; and is held in proper position by means of the bracket *c*, which bracket is securely attached to the center-bar B, or to the body A as desired, in any convenient and well known manner.

The pedal shaft D, is provided with the pedals *d*, and the sprocket-wheel F, which sprocket wheel is for the purpose of communicating rotary motion to the compound crank-shaft H, by means of the sprocket-wheel I, and the drive chain J, said parts being located and arranged, substantially as illustrated in Fig. 1. To the cranks *e*, are journaled the pitmen *f*, which pitmen are pivotally attached at their top or upper ends to the arms *g*, which arms are preferably formed integral with the disks C; but if desired, the arms *g*, may be formed separate from the disks C, and attached in any convenient and well known manner, as the only object is to form said arms rigid with the disks.

The disks C, are each provided with the side extensions or studs *h*, which side extensions or studs are located substantially as illustrated in Fig. 4, and are for the purpose of providing a better pivotal point for the disks C, and at the same time prevent said disks from becoming accidentally displaced when the legs are removed as hereinafter described.

For the purpose of causing the legs *b* and *b'*, to move in unison with the pivoted disks C, said disks are provided with the pins *k*, which pins are received into apertures *k'*, formed in the top or upper portion of the legs *b* and *b'*. In the drawings two pins are shown upon each disk; but it will be understood that a greater number may be employed if desired. The rear arms *g* are each provided with the inclined extensions *g'*, to which inclined extensions the weighted arms *g''*, are pivotally attached. The inclined portions *g'*, are each provided with the stop-pins *g'''*, which stop-pins are for the purpose of holding the weighted arms *g''*, in an elevated position as

illustrated in Fig. 1. The object and purpose of provided the weighted arms  $g^2$ , is to produce a "clicking" noise, which is designed to represent the "clicking" sound of a horse's feet striking upon the ground or pavement. It will be understood that by pivotally connecting the weighted arms  $g^2$ , when the weight has struck upon the inner side of the horse's body, said arms can be turned upon their pivotal connections, and thereby provide a yielding movement; or in other words, the downward stroke of the rear arms  $g$ , will not be brought to a sudden stop when the weighted arms  $g^2$ , have struck the inner face of the body. In the event the body is composed of wood, or like material, a metal plate should be attached and located so that the weighted arm will strike the plate thereby producing a clicking sound.

For the purpose of holding the extensions  $a$ , in proper position and at the same time preventing them from becoming bent out of a true perpendicular position, the interposed block  $B'$ , is provided, which may be located substantially as illustrated in Fig. 4. This block is to be used in the event the sides of the body are formed of sheet metal.

It will be understood that the front or forward arms  $g$ , need not necessarily be provided with the inclined arms  $g'$ , and the weighted arms  $g^2$ , and for that reason, they are not shown provided with said attachments; and in the event they should be attached, the construction and arrangement may be substantially the same as that shown in the drawings.

It will be understood that in the event the mechanism for producing the clicking noise should be placed upon the inside of a small body mounted upon a platform, the drive-chain and sprocket wheels can be dispensed with, and rotary motion communicated to the crank-shaft H, by means of the travel-

ing wheels. This can be accomplished without departing from the nature of my invention, in as much as the body shown in this application is formed large enough for a rider, while in a toy to be mounted upon a platform, the body is securely attached to the platform, and together with the body, drawn by a cord. Having fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The combination of the body A, having fixed thereto the pedal shaft D, provided with the pedals  $d$ , and the sprocket-wheel E, the drive chain J, the sprocket-wheel I, the compound crank-shaft H, the pitmen  $f$ , the arms  $g$ , provided with the inclined extensions  $g'$ , having pivotally attached thereto the weighted arms  $g^2$ , and the pins  $g^3$ , substantially as and for the purpose specified.

2. The combination of the body A, the center-bar B, provided with the side extensions  $a$ , the disks C, provided with the pins  $k$ , the legs  $b$  and  $b'$ , provided with the apertures  $k'$ , and means for communicating motion to the legs  $b$  and  $b'$ , substantially as and for the purpose specified.

3. The combination of the body A, the removable legs  $b$  and  $b'$  the disks C, provided with the arms  $g$ , and the weighted arms  $g^2$ , substantially as and for the purpose specified.

4. The combination of the body A, the pivoted legs  $b$  and  $b'$  the arms  $g$ , having pivoted thereto the weighted arms  $g^2$ , the pins  $g^3$ , and the center-bar B, provided with the side extensions  $a$ , substantially as and for the purpose specified.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

WALDO V. SNYDER.

Witnesses:

F. W. BOND,  
LAURA SHAEFFER.