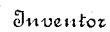


APPLICATION FILED JUNE 2, 1909.

Patented Sept. 21, 1909.
2 SHEETS—SHEET 1.



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CYCLE.

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2 SHEETS—SHEET 2.

Fig. 2.

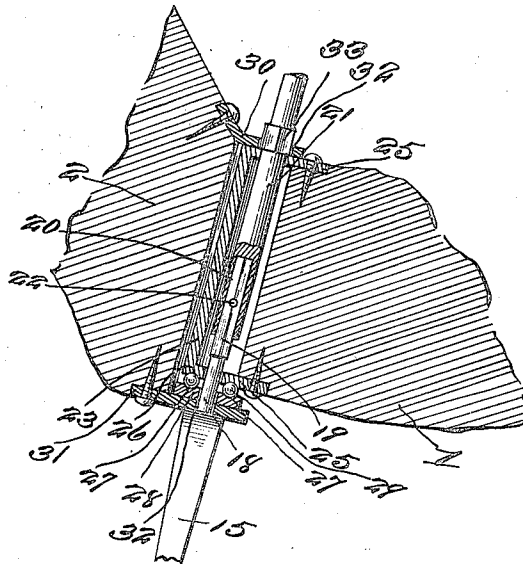
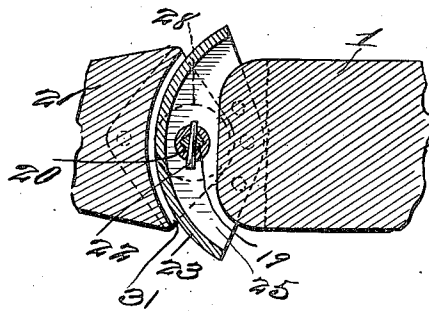


Fig. 3.



Witnesses

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CYCLE.

934,797.

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To all whom it may concern:

Be it known that I, JOSEPH E. DAVIS, a citizen of the United States, residing at Urbana, in the county of Champaign and State of Illinois, have invented a new and useful Cycle; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention pertains to cycles, especially a tricycle of such a design as to afford the appearance of a horse, the head of which is capable of being turned in either direction, as the steering wheel of the device is oscillated.

The invention has for its primary object the provision of means for forming a suitable connection between the neck of the horse and the body thereof, whereby the neck and head are movable with the steering wheel.

A further object of the invention is to provide means for allowing the steering wheel, the neck and the head to oscillate smoothly.

Another object of the invention is to afford means to allow the disconnection of the neck from the body, in order to remove the steering wheel and the handle bars.

This invention comprises further objects and combinations of elements which will be hereinafter more fully described, shown in the accompanying drawings, and the novel features thereof will be pointed out by the appended claims.

The features and elements and the arrangement thereof, for accomplishing the objects of this device or apparatus, may be changed and varied, that is to say, in an actual reduction to practice, the understanding, however, is that the changes and variations accruing from said reduction to practice are comprehended by the appended claims.

In the drawings, Figure 1 is a perspective view of a tricycle embodying the features of the invention. Fig. 2 is a vertical sectional view through the device. Fig. 3 is a sectional view showing the neck and the body disconnected, in order to further illustrate the structural details of this connection.

In regard to the annexed illustrations, 1 designates the body of that portion of the tricycle which is designed to represent a horse, while 2 denotes the neck and the head

thereof. The rear legs 3 of the body afford suitable bearings 4, for the axle 5, upon which the rear wheels 6 of the tricycle are journaled. Carried by and rotatable with the axle 5 is a sprocket 7, about which the usual sprocket chain 8 travels. This sprocket chain 8 also travels about the sprocket wheel 9, which is journaled upon and rotatable with the shaft 10. This shaft 10 is mounted in suitable bearings 11, of two downwardly extending projections or lugs 12 of the body of the device. The shaft 10 is provided with the usual cranks 13 having the usual pedals 14, whereby motion may be transmitted to the sprocket wheel 9, and thence to the rear wheels of the device.

The device is provided with the usual front forks 15, between which the steering wheel thereof is positioned. This steering wheel is journaled upon and rotatable with the shaft or axle 16, mounted in bearings 17 of the forks. The front forks are provided with an inwardly extending portion 18 having a rectangular portion 19, designed to be received by a rectangular shaped socket 20 of the rod 21, of the handle bars of the device, that is to say, when the same are assembled. Extending transversely through the rectangular shaped portion 19 and the socket portion of the rod 20 is a pin 22, in order to prevent disengagement of the said members 21 and 18.

An angular shield or plate 23 is afforded, which is fitted to the connecting end of the body, as shown, and is secured thereto by suitable screws or bolts 24. The members 18 and 21 extend through the lateral portions 25 of the shield, as illustrated in the sectional view of the device. In order to obtain access to the said pin 22, the shield is first removed. The lower lateral portion 25 is provided with a raceway 26, between which and the raceway 27 of the plate 28 ball bearings 29 are provided, in order to afford a smooth oscillating movement for the steering wheel. The neck 2 is provided with plates 30 and 31, through the apertures 32 of which, the members 18 and 21 extend. The aperture of the upper plate 30 is rectangular in contour, in order to fit the rectangular portion 33 of the rod 21, so as to cause the neck and the head to oscillate with the steering wheel.

The body 1 of the device is provided with a suitable seat 34, upon which the operator

sits, in order to properly manipulate the cranks of the device, thereby transmitting motion to the rear wheels.

From the foregoing, the essential features, elements and the operation of the device, together with the simplicity thereof, will be clearly apparent.

Having thus fully described the invention, what is claimed as new and useful is:—

10 1. In a tricycle of the design set forth, a body having a movable neck, rear wheels and a forward steering wheel, forks for the steering wheel having an upwardly extending portion, handle bars having a downwardly extending rod fitting said upwardly
15 extending portion and provided with a rectangular portion, said neck having a plate provided with a rectangular aperture engageable by said rectangular portion, where-
20 by the steering wheel and the neck are oscillated together.

2. In a tricycle of the design set forth, a body having a movable neck and provided with rear wheels and a forward steering
25 wheel, forks for the steering wheel having an upwardly extending portion having a rec-

tangular enlargement, handle-bars having a downwardly extending rod provided with a hollow rectangular portion to receive said rectangular enlargement, means extending 30 transversely of the rectangular hollow portion and the rectangular enlargement for holding them together, a shield for the downwardly extending rod and the up-
35 wardly extending portion, said neck having plates carried thereby provided with apertures to be received by the downwardly extending rod and the said upwardly extend-
40 ing portion, the aperture of one of the plates being rectangular, said downwardly extending rod having a rectangular enlargement to fit the rectangular aperture to enable the neck to turn with the steering wheel, as and for the purpose specified.

In testimony whereof I have signed my 45 name to this specification in the presence of two subscribing witnesses.

JOSEPH E. DAVIS.

Witnesses:

ROY C. FREEMAN,
FRED HESS.