

No. 841,424.

PATENTED JAN. 15, 1907.

G. B. McKINNEY.
MERRY-GO-ROUND.
APPLICATION FILED MAR. 16, 1906.

2 SHEETS—SHEET 1.

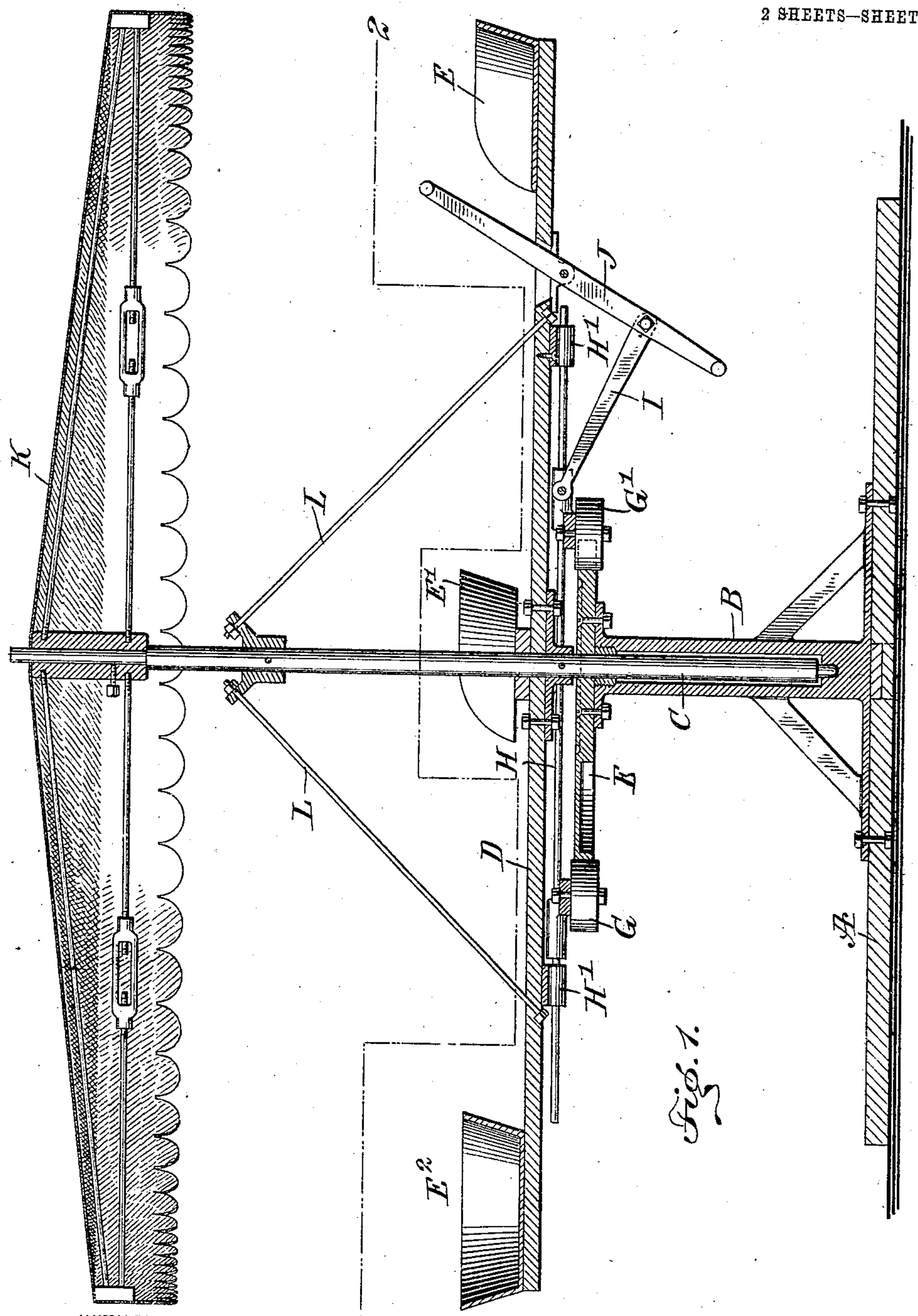


Fig. 1.

WITNESSES.

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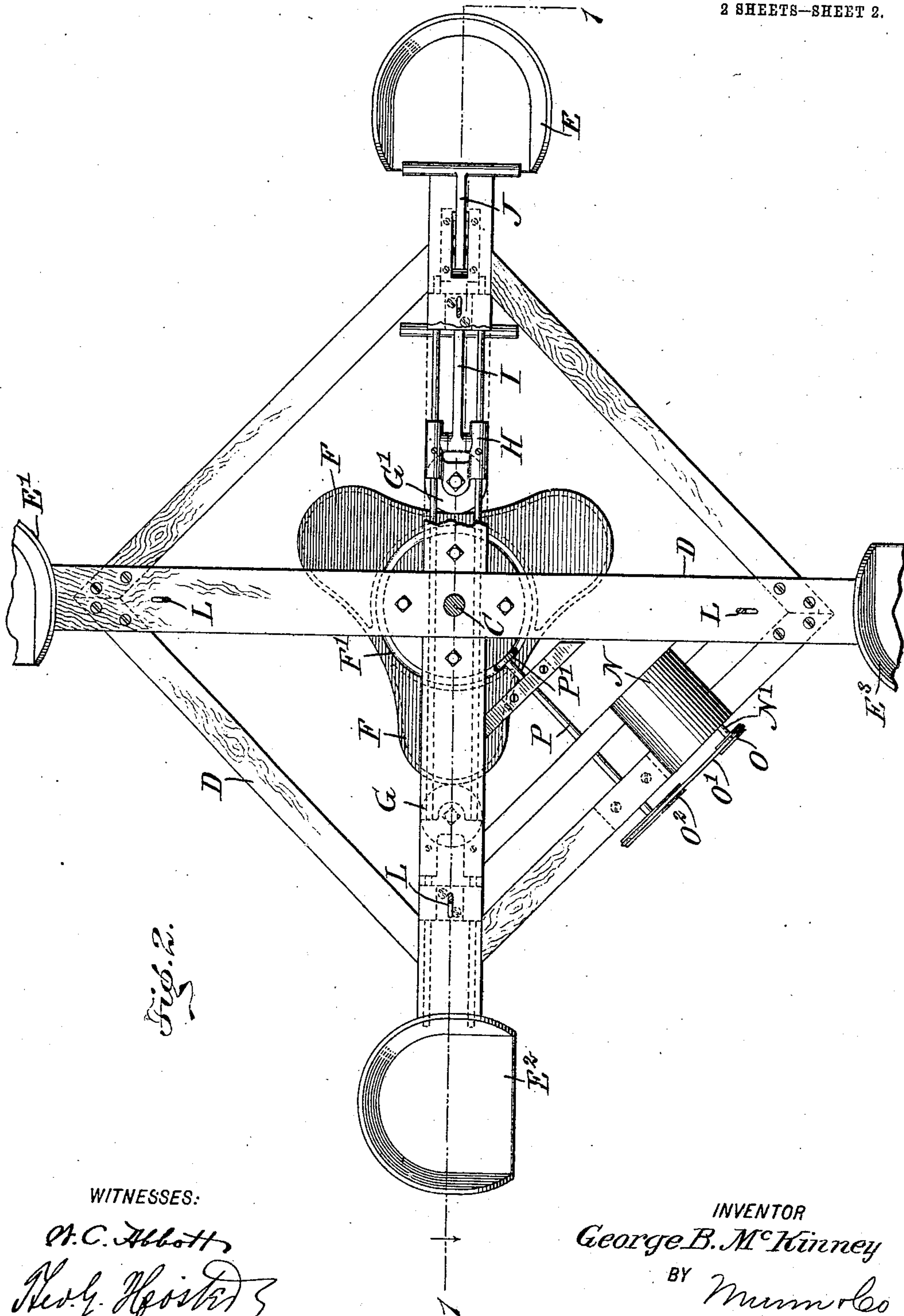
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WITNESSES:

W. C. Abbott
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UNITED STATES PATENT OFFICE.

GEORGE BESTER McKINNEY, OF BARRY, ILLINOIS.

MERRY-GO-ROUND.

No. 841,424.

Specification of Letters Patent.

Patented Jan. 15, 1907.

Application filed March 16, 1906. Serial No. 306,331.

To all whom it may concern:

Be it known that I, GEORGE BESTER McKINNEY, a citizen of the United States, and a resident of Barry, in the county of Pike and State of Illinois, have invented a new and Improved Merry-Go-Round, of which the following is a full, clear, and exact description.

The object of the invention is to provide a new and improved merry-go-round arranged to allow one or more of the passengers to readily propel the merry-go-round without requiring undue physical exertion on the part of the operators.

The invention consists of novel features and parts and combinations of the same, which will be more fully described hereinafter and then pointed out in the claims.

A practical embodiment of the invention is represented in the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in both the views.

Figure 1 is a sectional side elevation of the improvement on the line 1 1 of Fig. 2, and Fig. 2 is a sectional plan view of the same on the line 2 2 of Fig. 1.

On a suitably-constructed base A is erected a standard B, in which is journaled a shaft C, carrying a platform D, provided with a plurality of seats E, E', E², and E³ for accommodating one or more passengers. On the standard B is secured a cam F, disposed horizontally and engaged at its peripheral surface by friction-rollers G G', journaled on a slide H, mounted to move in suitable bearings H', attached to platform D. The slide H is connected by a link I with a lever J, fulcrumed on the platform D and extending in front of the passenger seated on the seat E, the latter being preferably arranged to accommodate a person facing inward, so as to enable this passenger to engage the lever J with hands and feet to conveniently and readily impart a swinging motion to the lever J. Now when such swinging motion is given to the lever J then the link I thereof imparts a reciprocating motion to the slide H, which by its friction-rollers G and G' engaging the peripheral face of the cam F on opposite sides causes a rotation of the platform D to carry the passengers seated on the several seats around.

As shown in the drawings, the cam F is in the form of a three-arm cam, and as the friction-rollers G and G' are in engagement with

the peripheral surface of this cam it is evident that a reciprocating motion of the slide H causes the friction-rollers to travel on the peripheral face of this cam F, and as the latter is fixed it is evident that the platform D is caused to rotate.

A canopy K is attached to the upper end of the shaft C, and the platform D is connected by suitable braces L with the shaft C to give the desired rigidity to the platform and its shaft.

An organ N, mounted on the platform D and traveling around with the same, is actuated automatically from the fixed cam, and for this purpose the following arrangement is made: A driving-shaft N' is provided with a pulley O, connected by a belt O' with a pulley O², secured on a shaft P, journaled in suitable bearings arranged on the platform D. On the inner end of the shaft P is secured a friction-wheel P' in engagement with an annular track F', formed in the fixed cam F, so that when the platform D is rotated, as before explained, it is evident that the friction-wheel P' rolls off on the fixed track F', and consequently a rotary motion is given to the shaft P, which by the pulleys O O² and belt O' is transmitted to the driving-shaft N' of the organ N.

Although I have shown but a single lever J connection with the slide H, it is evident that two or more such connections may be made to enable two or more passengers to assist in propelling the platform around, as before explained, and although I prefer a three-arm cam F, as illustrated and described, it is evident that other forms may be given to this cam without deviating from my invention.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. A merry-go-round, comprising a rotatable platform carrying seats, a fixed cam, a slide on the platform, engaging opposite sides of the said cam, and means connected with the slide for operating the platform manually controlled by a passenger seated on a platform-seat.

2. A merry-go-round, comprising a standard, a platform mounted to turn on the said standard and provided with seats, a cam fixed on the said standard, a slide mounted on the said platform, having friction-rollers engaging the peripheral surface of the said cam at opposite sides thereof, and means con-

nected with the slide for operating the platform controlled by a passenger seated on a platform-seat.

3. A merry-go-round, comprising a standard, a platform mounted to turn on the said standard and provided with seats, a cam fixed on the said standard, a slide mounted on the said platform, having friction-rollers engaging the peripheral surface of the said cam at opposite sides thereof, a lever ful-

crumed on the platform in front of one of the said seats, and a link connecting the said lever with the said slide.

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

GEORGE BESTER McKINNEY.

Witnesses:

GEORGE H. LIGGETT,
J. A. HIRRELL.