H. C. DRAPER.

MERRY-GO-ROUND.

APPLICATION FILED DEC. 12, 1908.

927,508. Patented July 13, 1909.

2 SHEETS—SHEET 1.

Fig. 1.

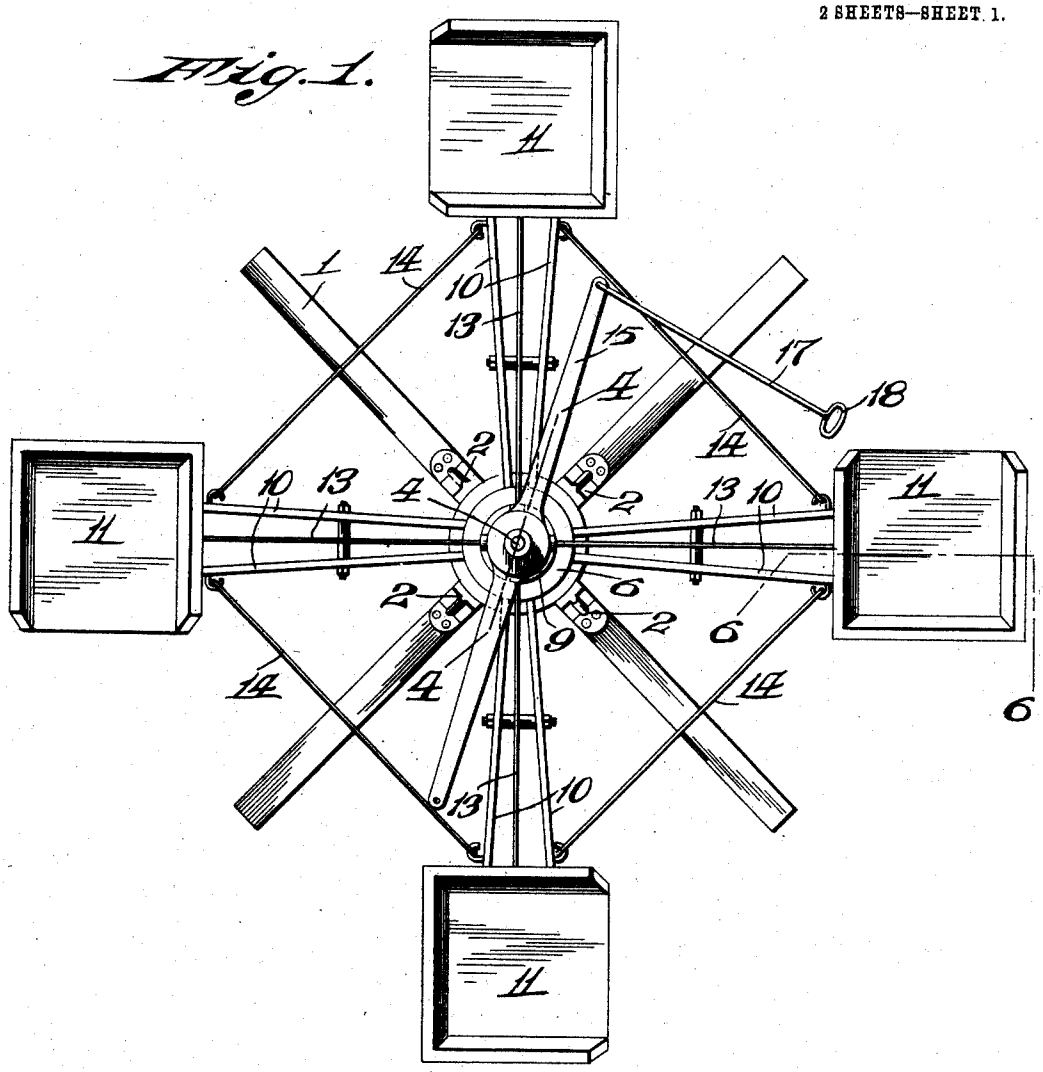
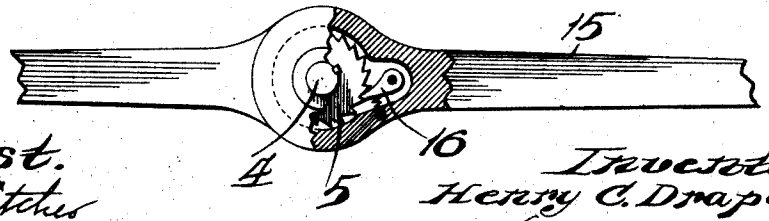


Fig. 2.



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2 SHEETS—SHEET 2.

Fig. 3.

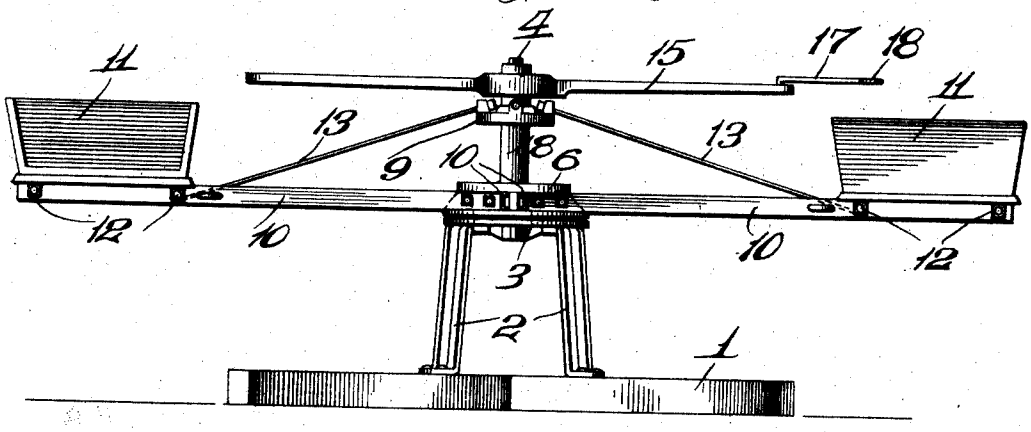


Fig. 4.

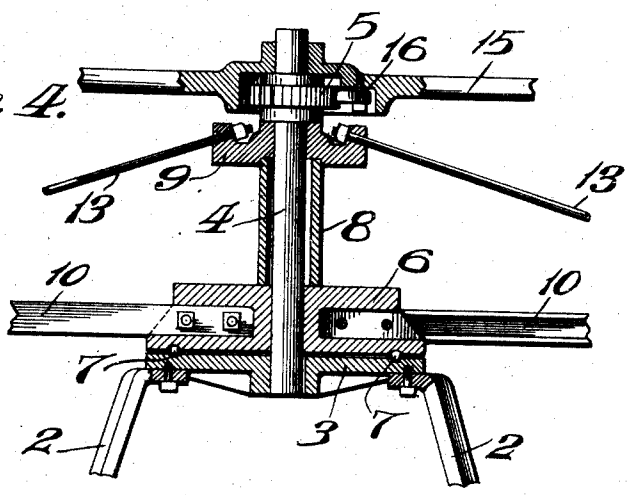


Fig. 5.

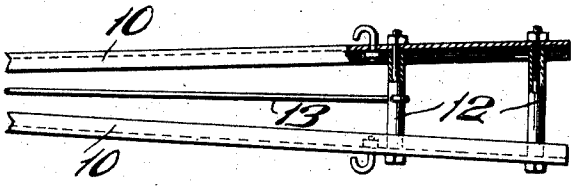
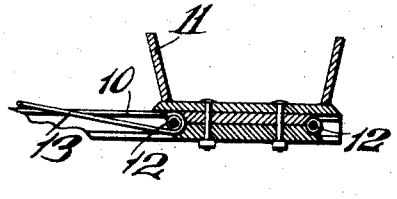


Fig. 6.



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UNITED STATES PATENT OFFICE.

HENRY C. DRAPER, OF ST. LOUIS, MISSOURI, ASSIGNOR OF ONE-HALF TO THOMAS F. WADSACK, OF ST. LOUIS, MISSOURI.

MERRY-GO-ROUND.

No. 927,508. Specification of Letters Patent. Patented July 13, 1909.

Application filed December 12, 1908. Serial No. 467,127.

To all whom it may concern:

Be it known that I, HENRY C. DRAPER, a citizen of the United States, and resident of St. Louis, Missouri, have invented certain new and useful Improvements in Merry-Go-Rounds, of which the following is a specification containing a full, clear, and exact description, reference being had to the accompanying drawings, forming a part hereof.

My invention relates to a merry-go-round, the object of my invention being to provide a simple and inexpensive device to be used in a large room or on the lawn, and which device is particularly intended to afford amusement for children.

A further object of my invention is to provide a device in the form of a merry-go-round in which the movement of the rotating frame and seats carried thereby is imparted by the action of the occupants of the seats.

To the above purpose, my invention consists in certain novel features of construction and arrangement of parts hereinafter described, claimed and shown in the accompanying drawings, in which:

Figure 1 is a plan view of a merry-go-round of my improved construction; Fig. 2 is an enlarged detail view partly in section showing the ratchet and pawl connections between the movable frame of the device and the fixed shaft thereof; Fig. 3 is a side elevation of the merry-go-round with one of the seat carrying arms thereof in section; Fig. 4 is an enlarged cross section taken approximately on the line 4—4 of Fig. 1; Fig. 5 is a plan view partly in section of the outer end of one of the seat carrying arms; Fig. 6 is a cross section taken on the line 6—6 of Fig. 1.

Referring by numerals to the accompanying drawings: 1 designates a base formed of two cross pieces, and fixed thereto are vertically disposed brackets 2, the upper ends of which support a bed plate 3. Rigidly fixed in the center of this bed plate is the lower end of a vertically disposed standard 4, on the upper portion of which is fixed a ratchet wheel 5.

Arranged to rotate on the standard 4, immediately above the bed plate 3, is a block 6, and arranged between the under side thereof and the top of the plate 3 are ball bearings 7. Arranged on top of the block 6 is a short vertically disposed sleeve 8, which incloses the central portion of the standard 4, and fixed to the upper end of said sleeve and rotating upon said standard 4 is a disk 9.

Rigidly fixed in any suitable manner to the block 6 are the inner ends of horizontally disposed and radially arranged arms 10, which arms are also arranged in pairs, and fixed on the outer end of each pair of arms is a seat 11. The outer ends of each pair of arms are connected by cross braces 12, and extending from the inner one of each of the cross braces to the disk 9 are braces 13. Braces 14 extend between and connect the outer portions of the seat carrying arms comprising the pairs of arms 10.

Arranged for rotation on the upper end of the standard 4, immediately above the ratchet wheel 5, is a cross arm 15, on the under side of which is pivotally arranged a spring pressed pawl 16, the point of which is adapted to engage the teeth of said ratchet wheel 5, and detachably connected to the outer ends of the cross arm 15 are rods such as 17, the outer ends of which are formed into handles such as 18.

When a merry-go-round of my improved construction is in use, the occupant of one of the seats engages the handle 18 of the rod 17 and exerts a pull upon said rod, but as the cross arm 15 is held against backward movement by reason of the pawl 16 engaging the teeth of the ratchet wheel 5, the entire rotating frame of the merry-go-round will be moved forward with a rotary movement, and when this movement has been accomplished the person operating the merry-go-round pushes the rod 17 forward, which action swings the cross arm 15 upon the standard 4, thus causing the pawl to travel a short distance around the toothed periphery of the ratchet wheel, and a continuation of the movement just described causes the rotating frame of the device to operate continuously.

A merry-go-round of my improved construction is very simple, inexpensive, is easily operated by an occupant of one of the seats of the device, and affords a moderate exercise and much amusement for children.

I claim—

A merry-go-round, comprising a base, upright standards secured to said base, a plate secured to said standards, a vertical shaft keyed to said plate, a second plate mounted on said first mentioned plate and rotatable on said shaft, ball bearings interposed between said plates, seat supporting arms se-

cured to said second mentioned plate, a sleeve loosely mounted on said second plate around said shaft, a third plate mounted on said sleeve and said shaft, rods secured to said third plate and to said seat supporting arms, a ratchet wheel keyed to the upper end of said shaft, a cross arm mounted on said shaft, a spring held dog carried by said cross arm for engaging with said ratchet wheel, and handles connected to the ends of said cross arms.

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

HENRY C. DRAPER.

Witnesses:
M. P. SMITH,
E. L. WALLACE.