

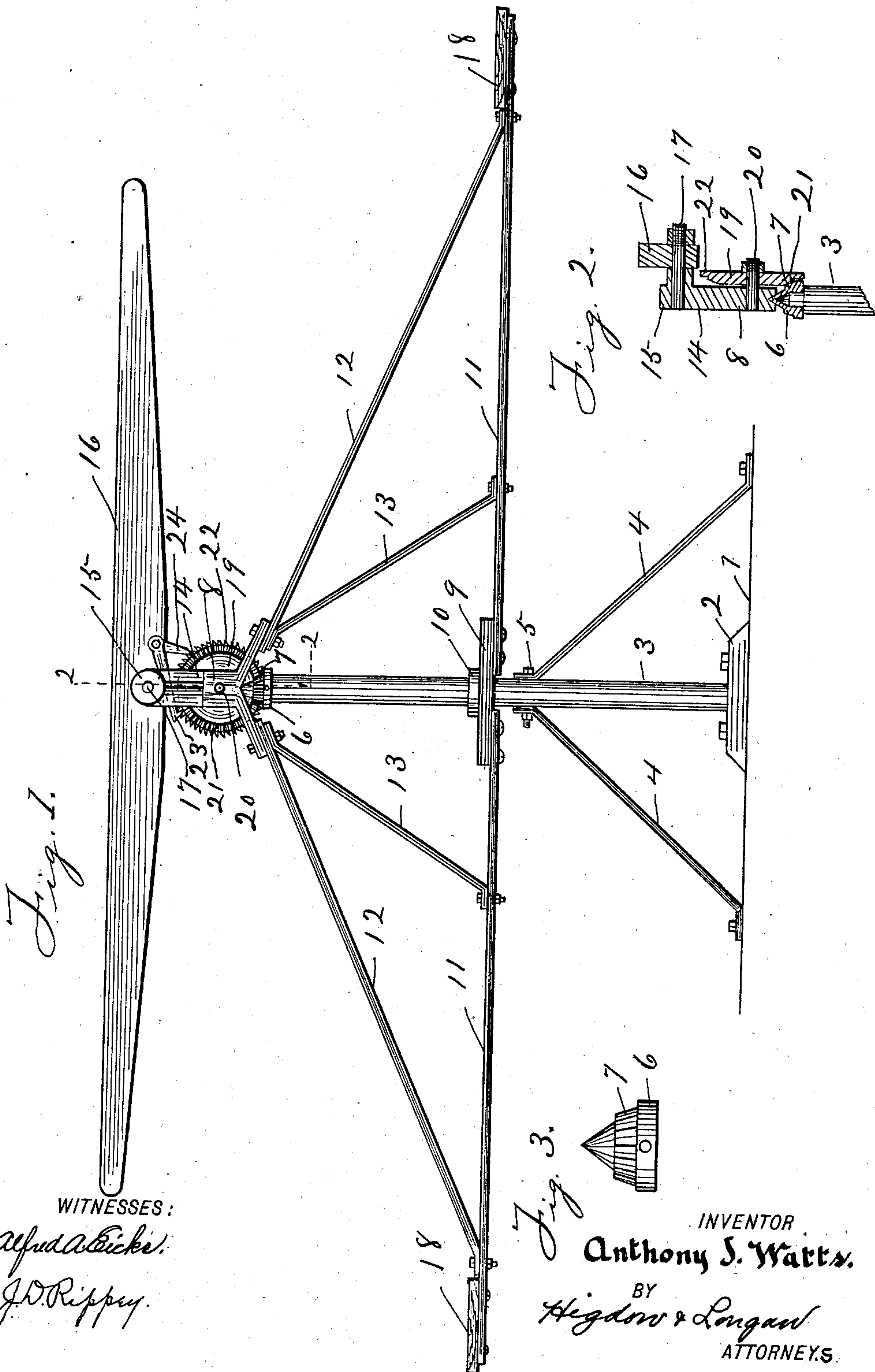
No. 671,251.

Patented Apr. 2, 1901.

A. J. WATTS.
MERRY-GO-ROUND.

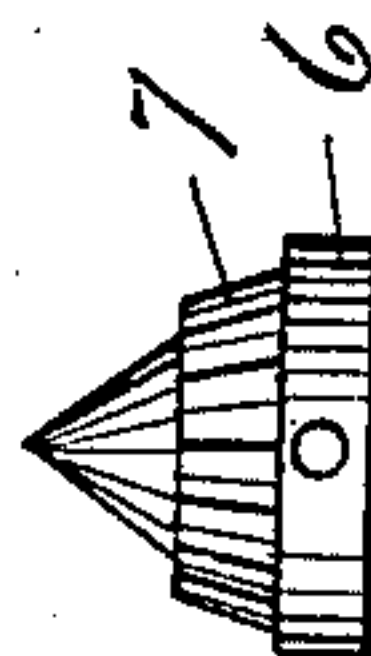
(Application filed Jan. 22, 1900. Renewed Feb. 25, 1901.)

(No Model.)



WITNESSES:
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Fig. 3.



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MERRY-GO-ROUND.

SPECIFICATION forming part of Letters Patent No. 671,251, dated April 2, 1901.

Application filed January 22, 1900. Renewed February 25, 1901. Serial No. 48,814. (No model.)

To all whom it may concern:

Be it known that I, ANTHONY J. WATTS, of the city of St. Louis, State of Missouri, have invented certain new and useful Improvements in Merry-Go-Rounds, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming a part hereof.

My invention relates to roundabouts; and it consists of the novel construction, combination, and arrangement of parts hereinafter shown, described, and claimed.

The object of this invention is to provide an improved roundabout having an improved means for operating the same.

Figure 1 is a side elevation of a roundabout constructed in accordance with the principles of my invention. Fig. 2 is a sectional detail on the line 2 2 of Fig. 1. Fig. 3 is an enlarged detail of the cone and gear.

In the construction of this device I attach to the floor 1 the pole-seat 2, to which is securely attached the center pole 3. The center pole 3 is further secured in its vertical position by suitable braces 4, attached by bolts 5 to said center pole 3 and to the floor 1 at a suitable distance from the base of said center pole 3. The top of the vertical center pole 3 is conical, and a hollow metallic cone 6, having cogs 7 on its basic periphery, is placed above the conical-shaped end of the center pole 3 and attached by means of rivets or other suitable means. An inverted-Y-shaped cap 8 fits over the cone 6. At a suitable distance above the braces 4 I provide a block 9, having an aperture 10 in its center, through which passes the center pole 3. Outwardly-projecting arms 11 are attached to the block 9, and braces 12 are attached to the arms 11, near their outwardly-projecting ends and to the Y-shaped cap 8. I provide other braces 13, connecting the inverted-Y-shaped cap 8 and the center of each of the arms 11 for the purpose of making said arms 11 less flexible. Integral with the inverted-Y-shaped cap 8 is the upwardly-projecting beam 14, which is suitably rounded at its upper extremity 15. To the upper extremity 15 of the beam 14 I hinge the operating-arm 16 by means of the hinge-pin 17. The arms 16 are made of such length as to be easily seized by any person seated on the seat 18, which I pro-

vide on the outward end of each of the arms 11. I attach a ratchet-wheel 19 to the beam 14 by means of the pin 20, upon which said ratchet revolves. Said ratchet is provided with the side cogs 21, which interlock with cogs 7 on the cone 6. It is also provided with ratchets 22. I attach pallets 23 and 24 to the operating-arm 16, said pallets operating in the ratchets 22 of the ratchet-wheel 19. The pallet 23 is a draw-pallet, and the pallet 24 is a repellent pallet.

When it is desired to operate the roundabout, the operating-arm 16 is seized by any person seated on the seat 18, operated back and forth vertically, and the ratchet-wheel 19 is turned by means of the pallets 23 24. When the ratchet-wheel is thus turned, the cogs 21 revolve in the cogs 7, and thus a rotary motion is imparted to the arms, and this rotary motion can be maintained as long as desired by operating the arm 16.

It is evident that any desired number of arms 11 may be attached to the block 9, similar to those shown in the drawings; also the pole-seat 2 may be of a suitable shape and of such size that the braces 4 may be attached to it and not to the floor, as specified above. This arrangement, in fact, would afford greater convenience, in that the roundabout could be quickly and easily moved from place to place.

I claim—

1. In a roundabout, a center pole having a metallic cone on its upper end, said cone having cogs around its basic periphery, substantially as specified.

2. In a roundabout, an immovable center pole secured in its position by braces and having on its upper extremity a cone provided with cogs around its basic periphery and an inverted-Y-shaped cap fitted over said cone, seats connected to the said cap, a wheel journaled to said cap and having cogs to mesh with the first-mentioned cogs and means of driving said wheel, substantially as specified.

3. In a roundabout, an immovable braced center pole provided with a cone having basic peripheral cogs, an inverted-Y-shaped cap over said cone, a revolving block, laterally-extending seat-arms attached to a revolving block, the outer ends of said arms being connected with the inverted-Y-shaped cap by suitable rods, and suitable braces connecting

the center of said seat-arms with said Y-shaped cap, a wheel journaled to said cap and having cogs to mesh with the first-mentioned cogs, and means of driving said wheel, substantially as specified.

4. In a roundabout, a center pole, an inverted-Y-shaped cap fitted above the conical top of the center pole, seats supported by the said cap, a ratchet-wheel having side and peripheral cogs attached to said Y-shaped cap, and an operating-arm having pallets suitably attached pivoted to the upper extremity of said Y-shaped cap, substantially as specified.

5. In a roundabout, the combination of an immovable center pole provided with a metallic cone having cogs around its basic periph-

ery, a Y-shaped cap supported by the cone, suitable laterally-projecting arms provided with seats and suitably braced to a Y-shaped cap positioned above the metallic cone, a ratchet having side and peripheral cogs, the side cogs operating in the cogs on the cone and an operating-arm provided with pallets which operate in the peripheral cogs of the sprocket pivoted to the upper extremity of the Y-shaped cap, substantially as specified.

In testimony whereof I affix my signature in presence of two witnesses.

ANTHONY J. WATTS.

Witnesses:

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