

Nov. 23, 1926.

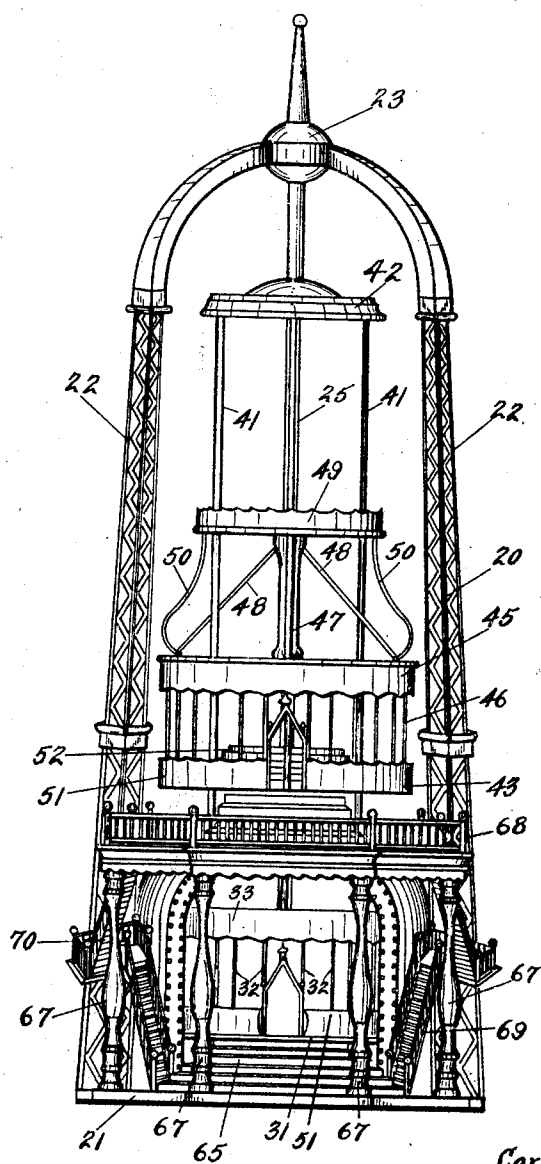
1,608,442

C. TARDETE

MERRY-GO-ROUND

Filed Oct. 5, 1923

5 Sheets-Sheet 1



Inventor
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FIG. I

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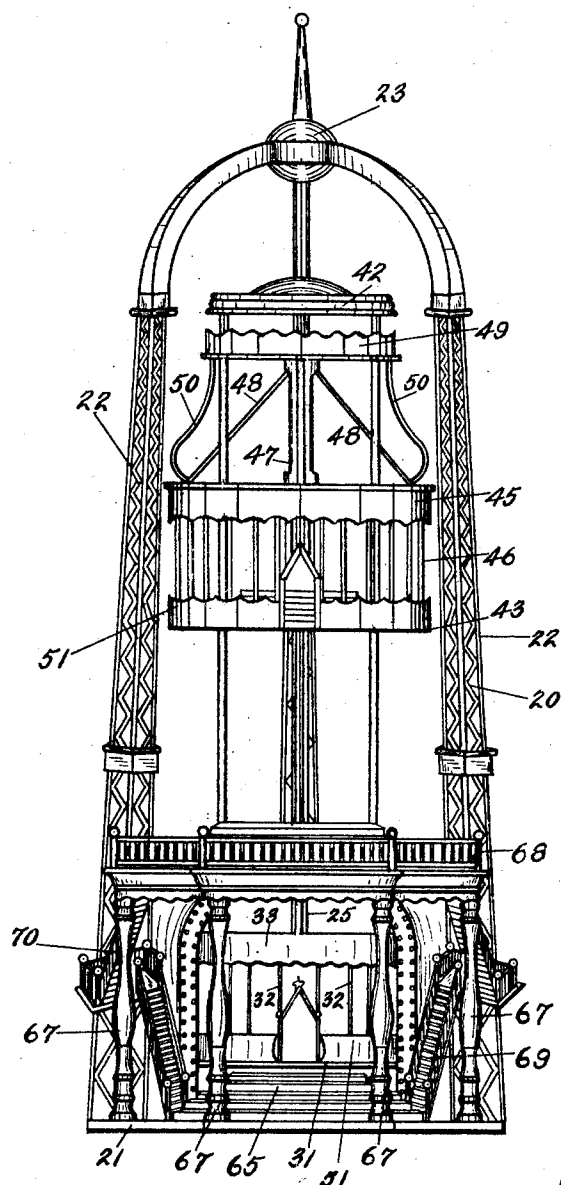


FIG. 2

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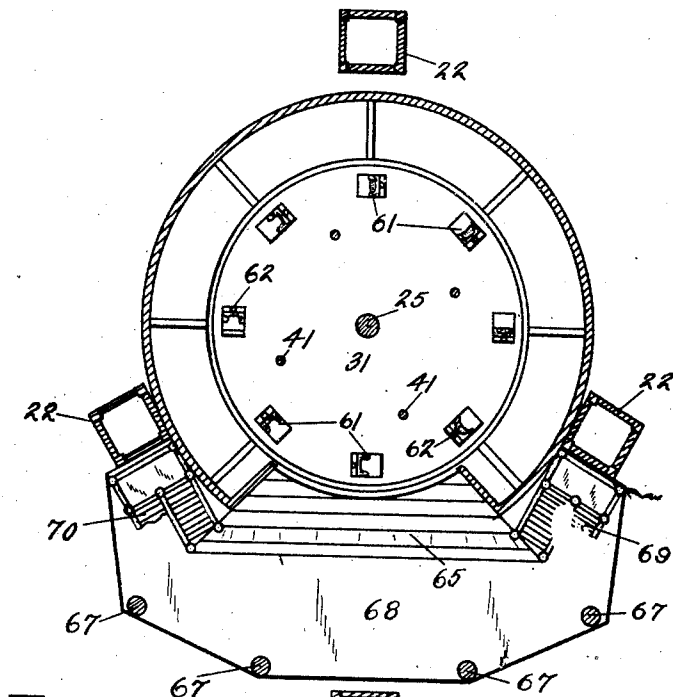


FIG. 3

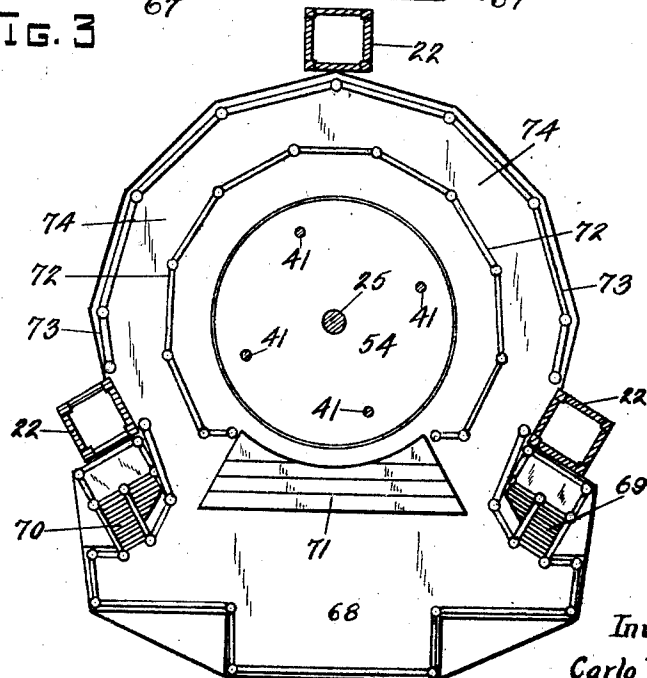


FIG. 4

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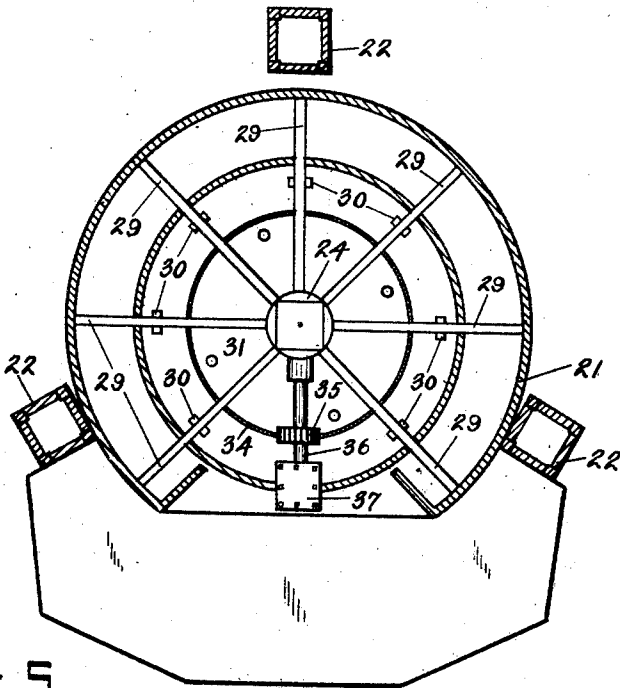


FIG. 5

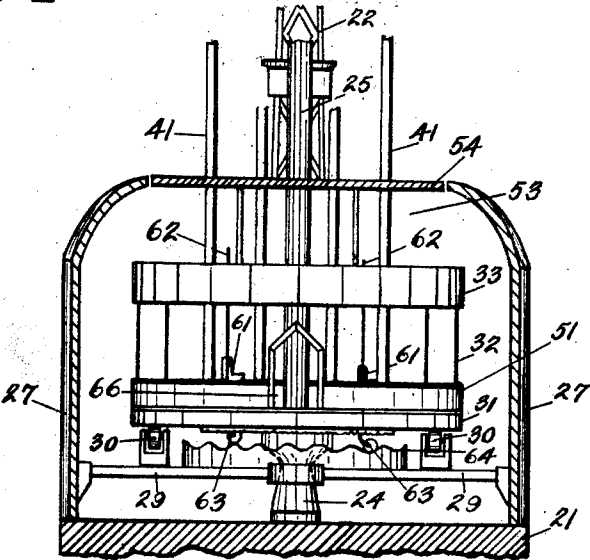


FIG. 6

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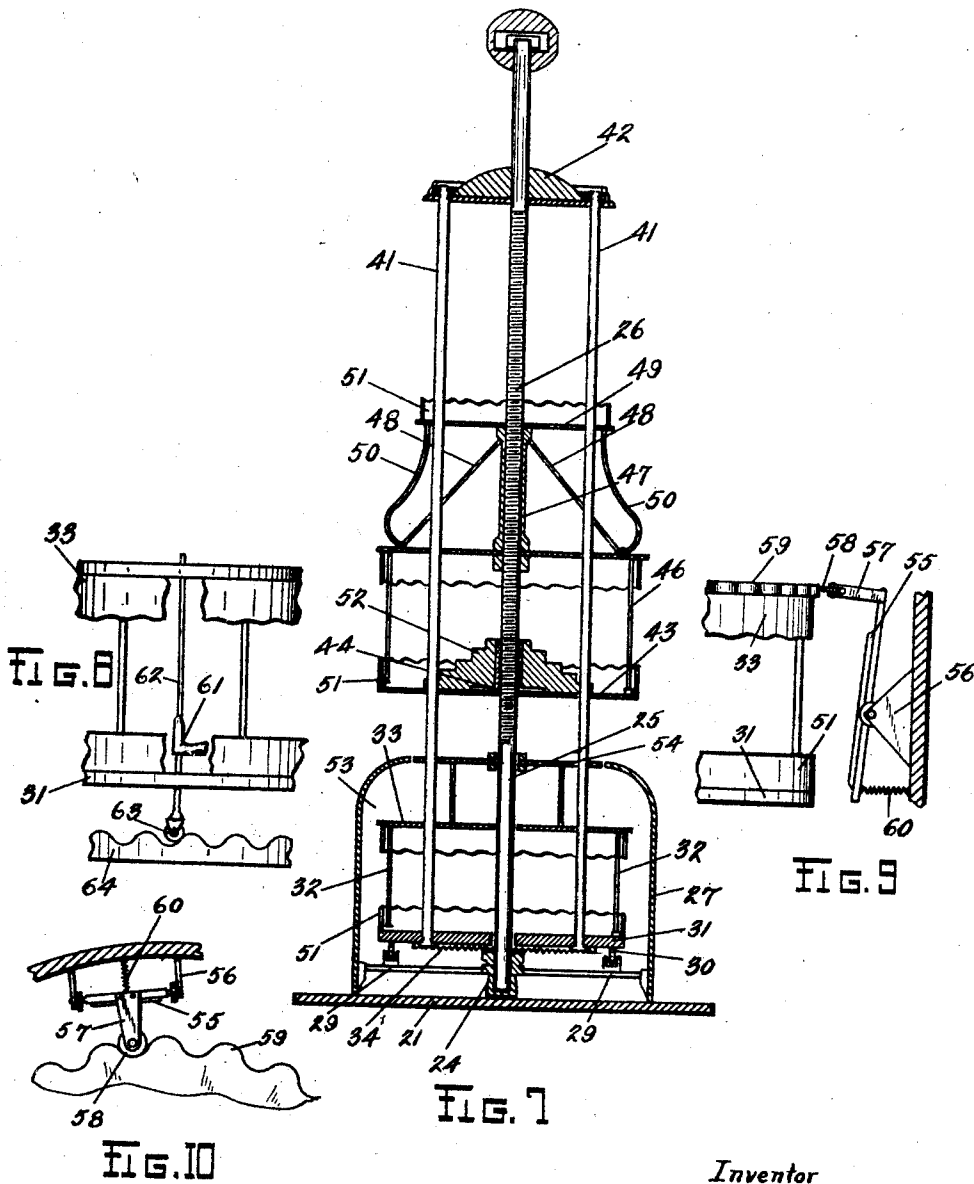
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MERRY-GO-ROUND

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5 Sheets-Sheet 5



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UNITED STATES PATENT OFFICE.

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MERRY-GO-ROUND.

Application filed October 5, 1923. Serial No. 668,746.

This invention relates to an improvement in a merry-go-round, and more particularly to one provided with two platforms, both of which are rotated and one of which is raised and lowered relatively to the other.

The chief object of this invention is to provide a merry-go-round having two platforms which are rotated simultaneously, the upper platform being raised or lowered while rotating so that the passengers thereon are elevated and have an opportunity to look out over the ocean or country, while enjoying the ride on the merry-go-round.

A further object of this invention is to provide in this merry-go-round a closed chamber in which one platform rotates, the chamber being walled with mirrors which are preferably of the kind reflecting grotesque images, and which are oscillated on horizontal axes as the platform is rotated.

Other objects will appear from the examination of the following specification taken in connection with the drawings which form a part thereof, and in which—

Fig. 1 is a front elevation of one embodiment of this invention;

Fig. 2 is a view similar to Fig. 1, the parts being in a different position;

Fig. 3 is a sectional plan view taken along the lines 3—3 of Figs. 1 and 2;

Fig. 4 is a sectional plan view taken along the line 4—4 of Figs. 1 and 2;

Fig. 5 is a bottom plan view looking from below and showing a portion of the operating mechanism;

Fig. 6 is a front elevation partly in section of one portion of the merry-go-round;

Fig. 7 is a vertical section showing the upper platform in its lower position and indicating the relation of the platforms, the seats being omitted from the lower platform;

Fig. 8 is an enlarged side elevation of the lower platform showing the manner in which the seats are supported and caused to rise and fall;

Fig. 9 is an enlarged view showing the manner in which the mirrors in the lower compartment are caused to oscillate; and

Fig. 10 is a plan view of the detail shown in Fig. 9.

Referring to the drawings, the reference numeral 20 is used to indicate generally the embodiment of merry-go-round set forth in this specification. The merry-go-round comprises a base 21 from which rise standards

22 which meet at the top in a center block 23. Mounted in the block 23 and in a standard 24 on the base 21 is a vertical shaft 25, the upper portion 26 of which is externally threaded for a purpose to be described later. The shaft 25 is rigidly mounted in the block 23 and support 24 and held against rotation. Upon the base 21 is mounted a circular wall 27 having an opening 28 at the front and enclosing the lower end of the shaft 25. A plurality of radiating cross pieces 29 extend from the support 24 to the inner face of the wall 27. Suitably mounted in carriages on the cross pieces 29 are rollers 30 so located, as shown particularly in Fig. 5, that they form a circle.

Resting upon the rollers 30 and freely rotatable around the shaft 25 is a platform 31 which is circular in shape and which is equally spaced from the walls 27. Carried by standards 32 is a canopy, or cover, 33, arranged at a suitable distance above the platform 31. This canopy 33 has a central opening around the shaft 25 and is caused to move with the platform 31 by the standards 32. The platform 31 is rotated in any desired manner, but for the purpose of illustration, however, there is shown in the drawing a ring gear 34 mounted upon the under side of the platform 31 and engaged by a pinion 35 on the shaft 36. The shaft 36 is rotated by a motor 37 or other suitable means by which the shaft 36 may be driven in either direction.

Suitably carried by the platform 31 are a plurality of uprights 41, the upper ends of which terminate in a plate 42 which surrounds the shaft 25 and is freely movable therearound. In the present embodiment four of these uprights 41 are provided, arranged at an equal distance from each other and from the shaft 25. A platform 43 is threadedly mounted upon the portion 26 of the shaft 25, an internally threaded block 44 being rigidly mounted at the center of the platform 43. A canopy 45 is arranged above the platform 43 on the supports 46 and is carried upon an internally threaded sleeve 47 held in proper position by means of braces 48. At the top of the sleeve 47 is provided a platform 49, the outer edges of which are supported by braces 50. Suitable guards 51 are provided on each of the platforms 31 and 43. The uprights 41 extend through the platforms 43, 49 and the canopy 45, so that any rotation of the platform 31

is transmitted to the upper platforms and canopy, and since these are in threaded engagement with the threaded portion of the shaft 25, it is obvious that, when rotated, they will rise or lower according to the direction of rotation. The block 44 may be stepped as shown to provide seats 52 for the passengers on the platform 43.

The compartment 53 formed by the wall 27 is closed at the top by a plate 54 suitably carried by the uprights 41 and supports upon the canopy 33, and freely movable on the shaft 25. Upon the inner wall of the compartment 53 are mounted mirrors 55 which extend completely around the wall of the compartment and are preferably of the type which reflect grotesque images. In order to heighten this effect the mirrors 55 are pivotally mounted on brackets 56, as is shown particularly in Figs. 9 and 10. Extending from the upper edge of the mirrors 55 are arms 57 having at their outer end rollers 58 which engage with an irregular cam surface 59 of the canopy 33. A suitable spring 60 at the bottom of each mirror 55 keeps the roller 58 all times in contact with the surface 59 of the canopy.

The passengers on the lower platform 31 are provided with seats 61, which are suitably mounted on rods 62. The rods 62 extend through the platform 31 and the canopy 33 and carry at their lower ends rollers 63 which engage with an irregular surface cam 64. Thus as the platform 31 is rotated, the seats 61 are caused to rise and fall.

Entrance to the platform 31 is permitted by means of steps 65 which rise from the front of the base 21. The wall 51 of the compartment 31 is interrupted at 66 to provide an entrance to the platform, which entrance will be closed by a gate, or any suitable means when the merry-go-round is in operation. Supported by suitable posts 67 is a balcony 68 which is reached by means of the staircases 69 and 70 at either side of the steps 65. Rising from the balcony 68 are steps 71 by which admission to the platform 43 is possible through an opening 75 in the wall 51. A rail 72 surrounds the platform 43 when lowered, and any suitable means may be provided for closing the top of the steps 71.

The balcony 68, as shown particularly in Fig. 4, provides a promenade 74 completely around the upper platform 43 between the rail 72 and an outer rail 73. Thus it is possible for sightseers to ascend to the balcony 68 by the steps 69 or 70 and either mount the platform 43 or else stroll around the promenade 74 and observe the scenery. Suitable means may be provided to close the opening 75 when the platform is raised.

The plate 54 is at the same level as the balcony 68 so that when desired the plat-

form 43 may be raised, the rail 72 removed and the surface used as a roof garden or dance floor.

The operation of the merry-go-round is, I believe, obvious from the foregoing description. Briefly, however, it may be stated that people first enter upon the base 21, and then either ascend the steps 65 to the platform 31 or else ascend the steps 69, 70 to the balcony 68 where they either stroll through the promenade 74 or else, when the platform 43 is down ascend the steps 71 to the upper platform 43.

When a suitable number have been admitted to the platforms 31 and 43, the openings 66 and 75 will be closed and the platforms set in rotation. The rotation of this platform causes the seats 61, which are occupied by the passengers to be raised and lowered, and at the same time causes the mirrors within the compartment 53 to be tilted back and forth. Since the platform 43 is in threaded engagement with the shaft 25, it is obvious that it will be raised until it reaches the highest point as in Fig. 2, and then the direction of rotation will be reversed and the platform lowered to the position shown in Fig. 1.

While one embodiment of this invention has been shown and described, I am not to be limited thereto since it is obvious that others may be made without departing from the spirit and scope of the invention as set forth in the following claims.

Having thus set forth my invention what I claim as new and for which I desire protection by Letters Patent is:

1. A merry-go-round comprising two rotatable platforms, each adapted to receive passengers, a shaft rigidly mounted and extending through the center of said platforms, a stationary balcony above one of said platforms, steps to said balcony whereby passengers can enter said second platform, means for rotating both said platforms simultaneously and connections between said shaft and said second platform whereby said second platform is raised or lowered with respect to said balcony when said means are set in motion.

2. A merry-go-round comprising two rotatable platforms, each adapted to receive passengers, a shaft rigidly mounted and extending through the center of said platforms, a portion of which shaft is externally threaded, a stationary compartment enclosing one of said platforms, a balcony on said compartment whereby passengers can enter said second platform, means for rotating both said platforms simultaneously and connections between the threaded portion of said shaft and said second platform whereby said second platform is raised or lowered with respect to said balcony when said means are set in motion.

3. In a merry-go-round, a rotatable platform, a compartment within which said platform rotates, mirrors pivoted upon the inner side walls of said compartment and means 5 actuated by the rotation of said platform to cause said mirrors to swing upon their pivots.
4. In a merry-go-round, a rotatable platform, a compartment within which said platform rotates, mirrors horizontally pivoted 10 upon the inner side walls of said compartment and means actuated by the rotation of said platform to cause said mirrors to swing upon their pivots.
5. In a merry-go-round, a rotatable platform, a compartment within which said platform rotates, mirrors pivoted upon the inner 15 side walls of said compartment and means carried by said mirrors and actuated by the rotation of said platform to cause said mirrors to swing upon their pivots.
6. In a merry-go-round, a rotatable platform, a compartment within which said platform rotates, a canopy for said platform 20 carried thereby and rotatable therewith, mirrors pivoted upon the inner side walls of said compartment and means carried by said mirror and actuated by said canopy during its rotation to cause said mirrors to swing upon 25 their pivots.
7. In a merry-go-round, a rotatable platform, a compartment within which said platform rotates, a canopy for said platform carried thereby and rotatable therewith, the 30 outer edge of said canopy being cam-like, mirrors pivoted upon the inner side walls of said compartment and means carried by said mirror and actuated by the cam-like edge of said canopy during its rotation to cause said mirrors to swing upon their pivots. 40
8. A merry-go-round comprising a base, standards carried by said base, an annular balcony mounted upon said standards above 45 said base, steps from said base to said balcony, a shaft mounted in said base and supported by said standards, a compartment on said base enclosing the lower end of said shaft, a platform in said compartment adapted to rotate free of said shaft, a second platform in threaded engagement with said shaft 50 above said balcony and means for rotating said platforms.
9. A merry-go-round comprising a base, standards carried by said base, an annular balcony mounted upon said standards above 55 said base, steps from said base to said balcony, a shaft mounted in said base and supported by said standards, a compartment on said base enclosing the lower end of said shaft, a platform in said compartment adapted to rotate free of said shaft, means on said 60 base by which said platform is reached, a second platform in threaded engagement with said shaft above said balcony, means on said balcony by which said second platform 65 is reached and means for rotating said platforms.

In testimony whereof I have affixed my signature.

CARLO TARDETE.