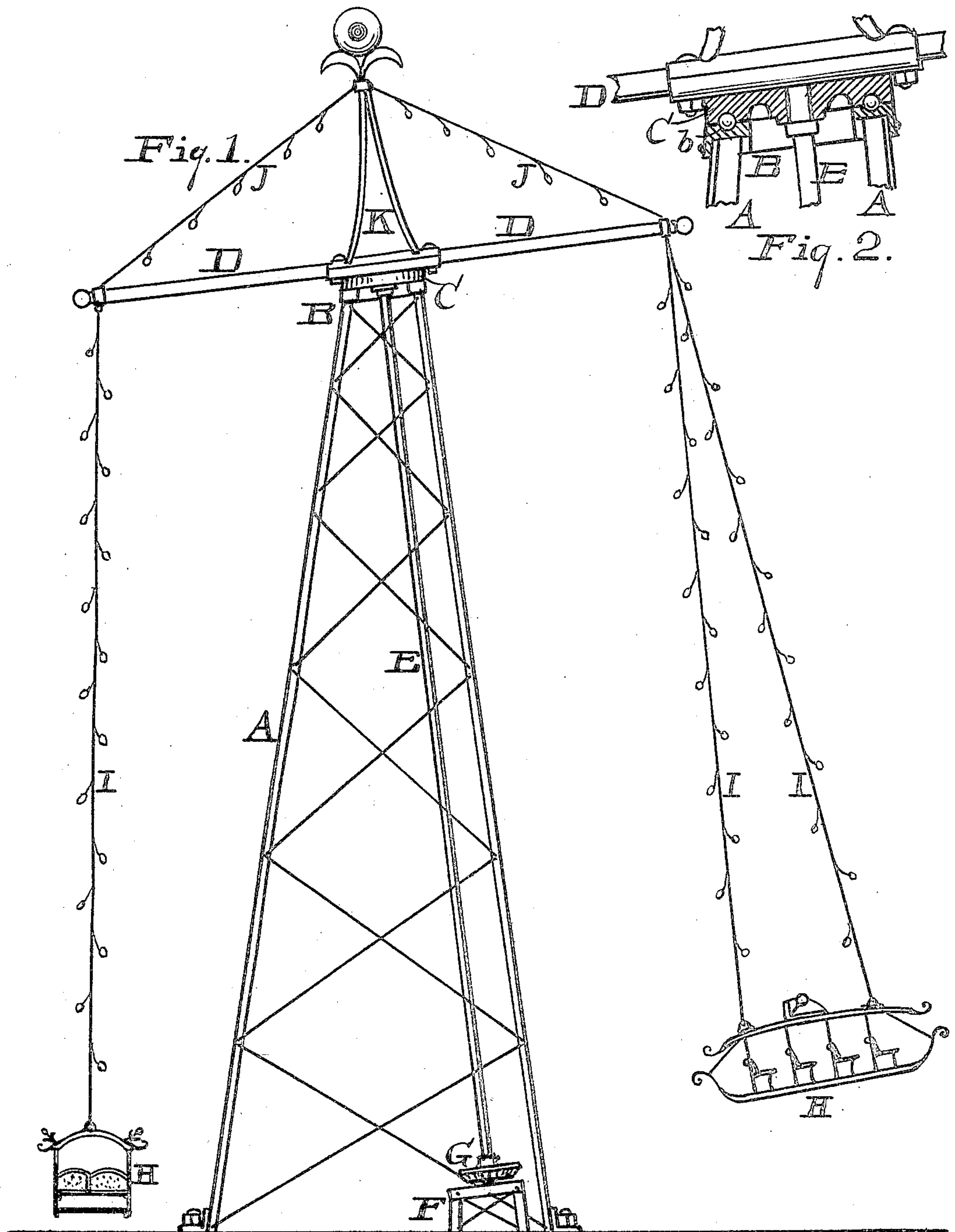


No. 813,159.

PATENTED FEB. 20, 1906.

T. LONG.  
MERRY-GO-ROUND.  
APPLICATION FILED NOV. 30, 1904.



Witnesses:

Geo. B. Tibbitts  
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Inventor:

Timothy Long,  
per Geo. W. Tibbitts  
Attorney.

# UNITED STATES PATENT OFFICE.

TIMOTHY LONG, OF CLEVELAND, OHIO.

## MERRY-GO-ROUND.

No. 813,159.

Specification of Letters Patent.

Patented Feb. 20, 1906.

Application filed November 30, 1904. Serial No. 234,892.

*To all whom it may concern:*

Be it known that I, TIMOTHY LONG, a citizen of the United States of America, and a resident of the city of Cleveland, county of Cuyahoga, and State of Ohio, have invented certain new and useful Improvements in Merry-Go-Rounds, of which the following is a specification.

This invention relates to merry-go-rounds, and has for its object to provide for an upward movement for the carriages in combination with the rotary movement; and it consists in suspending the carriages from a rotating spider mounted on a tower at an angle inclining the spider from the horizontal line sufficiently to lift the carriages in their rotary movements in an inclined plane from the ground-level, thereby giving to the riders an upward swing as well as the rotative swinging motion.

In the accompanying drawings, Figure 1 is a side elevation of my new merry-go-round, showing the inclined position of the spider-frame on the top of the tower. Fig. 2 is a view of the spider and its support, partly in section, showing ball-bearings for the spider.

A represents a tower-frame of suitable height and proportion and properly anchored to the ground or a platform.

B is a table fixed on the top of the tower at an angle giving it an inclination from the horizontal line. C is a spider-frame supported on said table on ball-bearings *b b*. D D are arms projecting outward from said spider.

E is a vertical shaft at one side of the tower, stepped in a suitable table F at the bottom of the tower.

G is a bevel-gear on the lower end of the shaft, to which power is to be applied for turning the shaft. The shaft stands at an angle from the perpendicular line, so as to have its upper end meet the spider, to which it is attached, at a right angle.

H H are carriages suspended from the ends of the arms D D by cords I I. The ends of the arms D D are braced by cords J J from the top of a central post K on the spider C.

The tower is formed of a plurality of angle-irons, as shown. Table B, which is of ring-like form, is formed with a marginal depending flange, the angle-irons constituting the legs of the tower being of unequal length and engaged by this flange, the table B seating directly on the upper end of said legs. Thus a simple arrangement is effected, easily assembled and taken apart.

By this construction it will be seen that as the spider and its arms rotate in an elliptical circuit and as the arms approach and reach the higher part of the plane, they will lift the carriages, and give to the riders a pleasing sensation of being carried upward as well as in the rotary swinging motion. To enhance the attraction, electric lights may be attached to the cords and mounted on the frame, and thereby give to the device a pleasing effect in the night-time.

Having described my invention, what I claim is—

1. In a merry-go-round, a tower formed of a plurality of legs of unequal length, an inclined table formed with a depending flange seating on the upper ends of said legs and having the flange thereof engaged by said legs, a rotatable spider on said table, and a shaft having its upper end projecting into said spider and secured thereto.

2. In a merry-go-round, a tower formed of a plurality of legs of unequal length, a table of ring-like form seating on the upper ends of said legs, a marginal depending flange carried by the table and being engaged by said legs, a rotatable spider seating on said table and having a central opening, a shaft having its upper end projecting through said table and secured in said opening of the spider.

Signed by me, at Cleveland, Ohio, this 21st day of November, 1904.

TIMOTHY LONG.

Witnesses:

GEO. W. TIBBITTS,  
FRANK S. DAY.