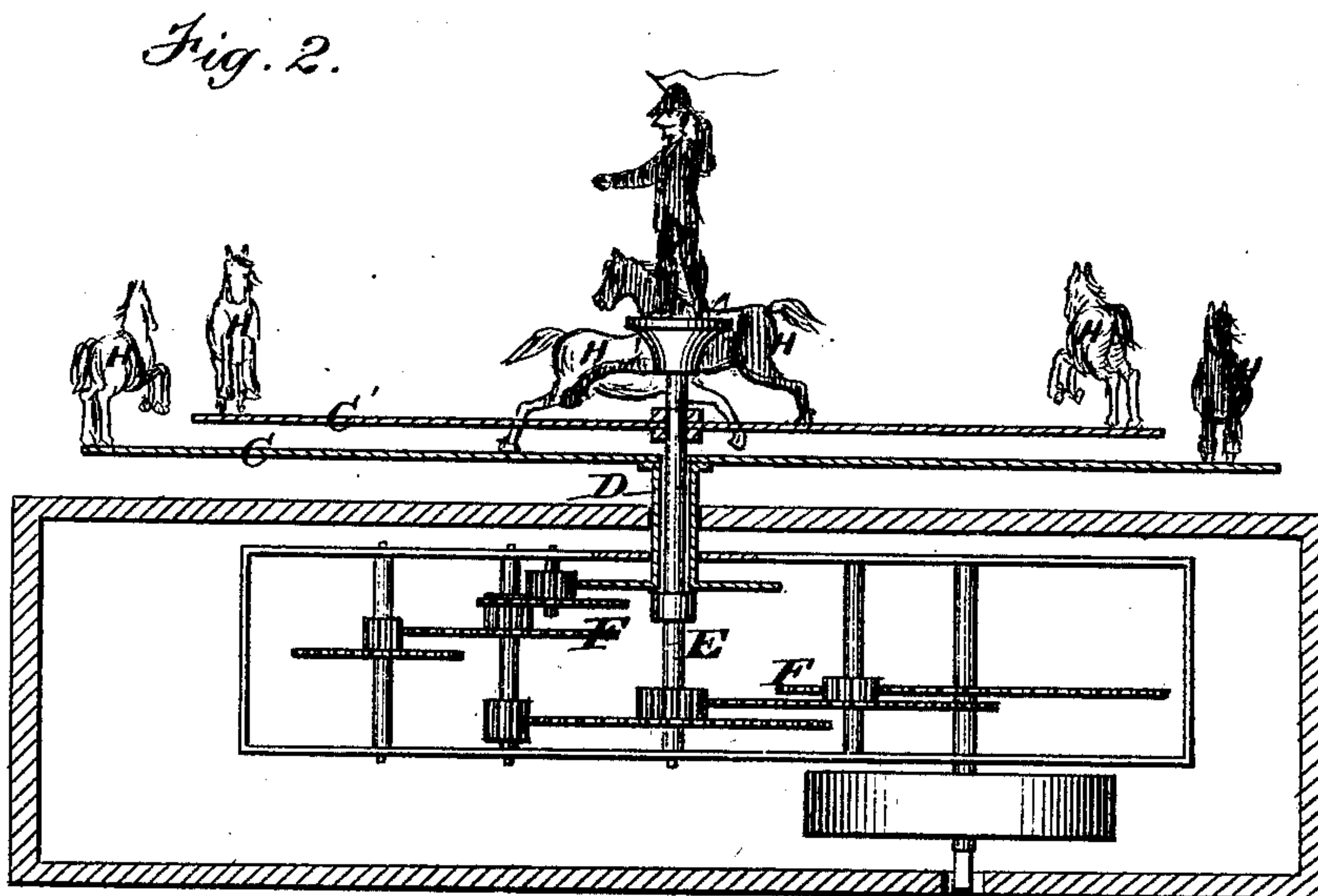
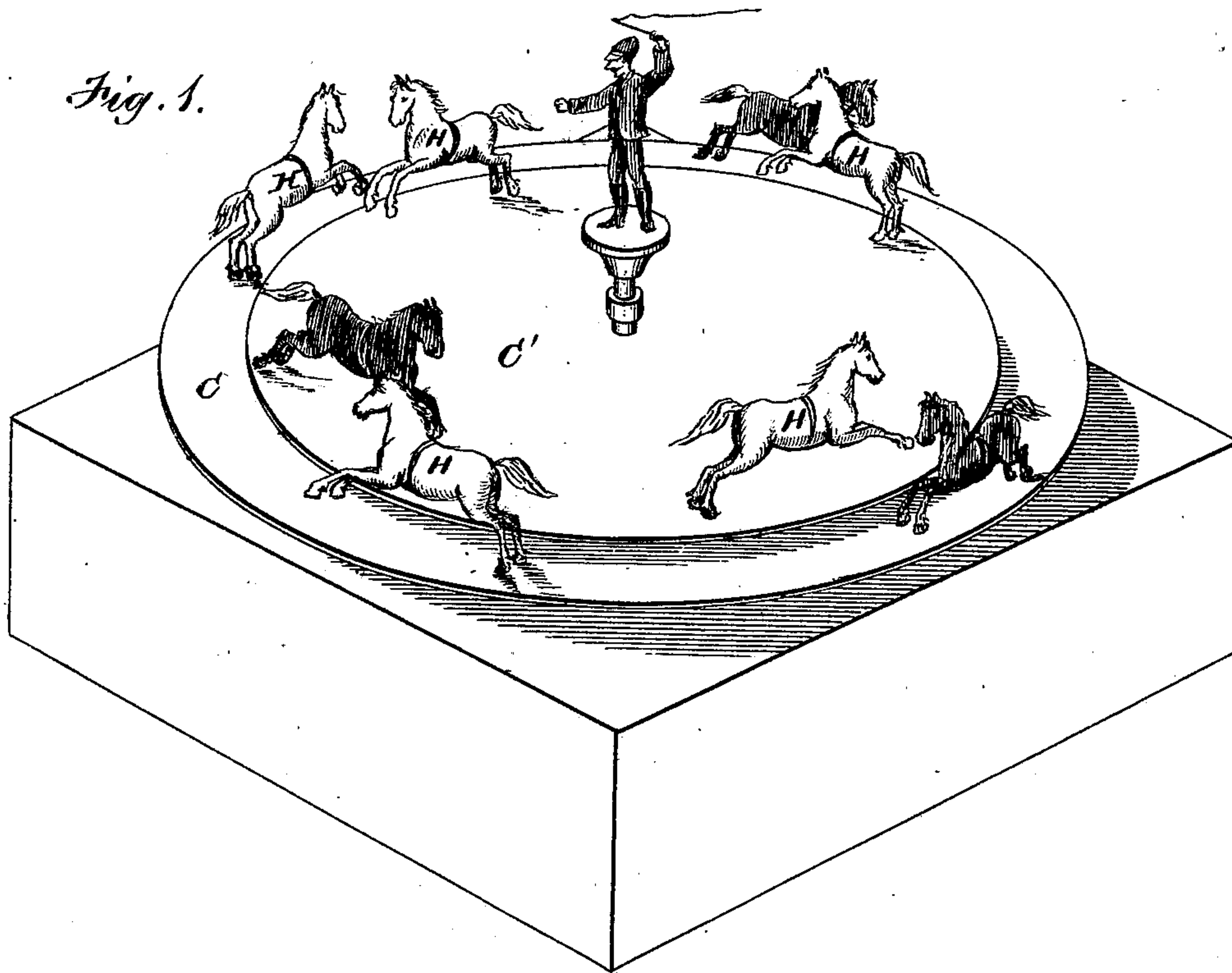


C. H. BRIGHAM.  
MERRY-GO-ROUND.

No. 176,590.

Patented April 25, 1876.



Witnesses.

A. E. Duison  
S. B. Constock.

Inventor  
C. H. Brigham  
by his Attys.

Canoll & Knight & Brown



# UNITED STATES PATENT OFFICE

CHARLES H. BRIGHAM, OF MARLBOROUGH, ASSIGNOR OF TWO-THIRDS HIS  
RIGHT TO HAWES, BUTMAN & CO., OF BOSTON, MASSACHUSETTS.

## IMPROVEMENT IN MERRY-GO-ROUNDS.

Specification forming part of Letters Patent No. **176,590**, dated April 25, 1876; application filed  
March 13, 1876.

*To all whom it may concern:*

Be it known that I, CHARLES H. BRIGHAM, of Marlborough, in the county of Middlesex and State of Massachusetts, have invented certain Improvements in Merry-Go-Rounds, of which the following is a specification:

In the accompanying drawing, forming a part of this specification, Figure 1 represents a perspective view of an apparatus embodying my invention. Fig. 2 represents a sectional view of the same.

This invention has for its object to introduce a novel and pleasing feature into the operation of apparatuses of pleasure known as "merry-go-rounds," whether they are made on a large or small scale, and used for carrying persons or toy figures.

To this end my invention consists in a merry-go-round having two series of objects, such as carriers or supports for the body or toy figures, which are adapted to rotate simultaneously in opposite directions in a horizontal plane around a common center, as I will now proceed to describe.

In carrying out my invention I employ two series of objects, which may be either supports for the body or toy figures, according to the scale on which the apparatus is built. These series may be composed of any desired number of objects, and are located around a common axis or center of rotation, one series being farther from the center, or, in other words, having a greater radius than the other. The two series of objects or figures are adapted in any suitable manner to rotate simultaneously in opposite directions around their common center, the object of each series moving in unison, and in a direction opposite to that of the motion of the other series. The means used to effect this double rotation may vary, according to circumstances and the size of the apparatus. In a large-sized apparatus, such as is used in a public park to carry people, the two series of objects, which consist of seats or supports for the body, will preferably be placed on or suspended from the outer ends of spokes or arms radiating from hubs on a central vertical shaft, and rotated by horse or other power, while in a toy apparatus the mo-

tive power will preferably consist of a spring or weight applied through a suitable train of gearing to rotate the two series of objects, which will consist of toy figures, and will either be supported by radial arms or rotary platforms.

I have shown in the accompanying drawings one form of toy apparatus embodying my invention, this apparatus being provided with two circular concentric platforms, C C', which are adapted to rotate simultaneously in opposite directions around their common center. The lower platform C is supported by a tubular shaft, D, and the upper platform by a shaft, E, passing through the bore of the shaft D. The shafts D E are so connected to a train of gearing, F, as to be rotated thereby simultaneously in opposite directions when the gearing is impelled by a spring or other means. The toy figures or objects H are placed on the upper surfaces of the platforms C C', near their outer peripheries, the diameter of the lower platform being greater than that of the upper, so as to cause its periphery to project beyond the upper platform. When the platforms are set in motion the opposite directions in which the figures H move give a pleasing effect to the operation of the apparatus.

I do not limit myself to any particular method of imparting the described motion to the two series of objects or figures, but reserve the right to employ such means as shall be best adapted to accomplish the desired result under different circumstances.

I claim as my invention—

In a merry-go-round, two series of objects, H, adapted to rotate concentrically in substantially horizontal planes, and simultaneously in opposite directions around a common center, substantially as described.

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

CHARLES H. BRIGHAM.

Witnesses:

WILLIAM G. HAWES,  
CHARLES F. BROWN.