A. SCHÄDEL, NÉE HÖPPENER.

CAROUSEL.

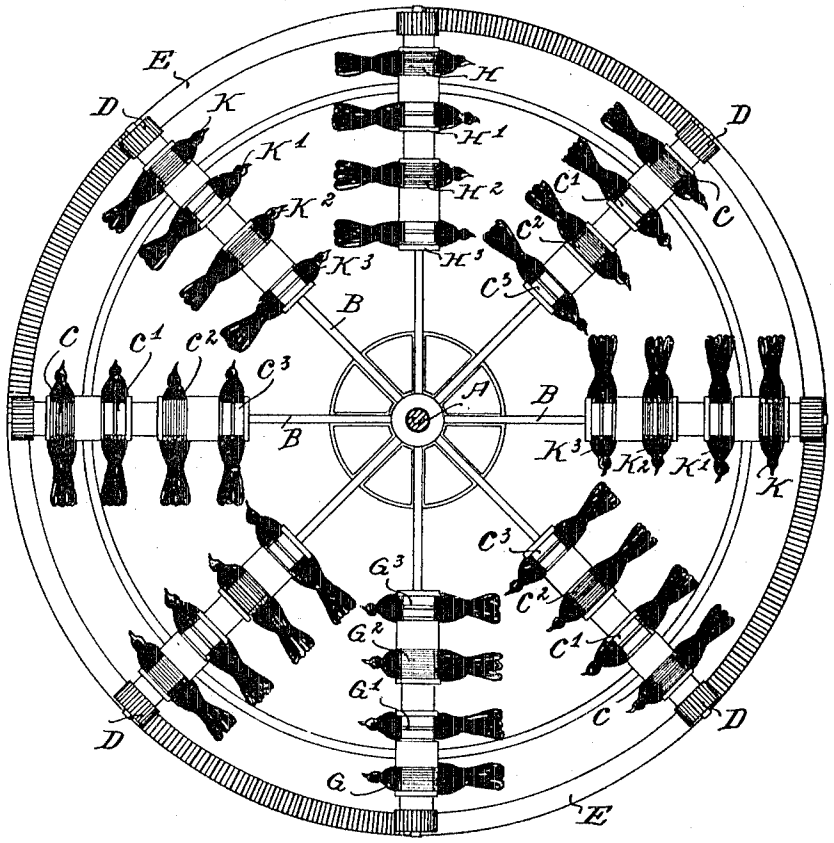
APPLICATION FILED APR. 29, 1914.

1,120,245.

Patented Dec. 8, 1914.

2 SHEETS—SHEET 1.

Fig. 1.



Witnesses:

Wilhelm Grape

John Wolf

Inventor.

Alma Schädel, née Höppener.

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2 SHEETS—SHEET 2.

Fig. 2.

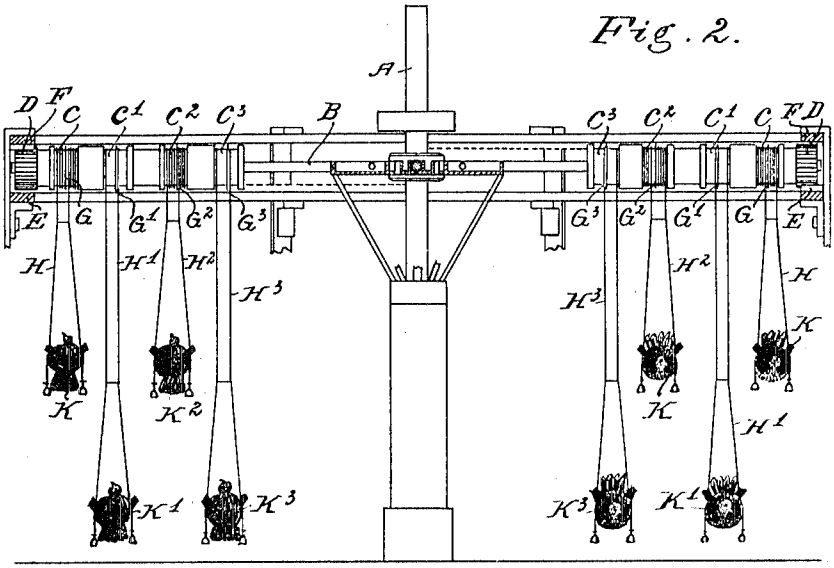
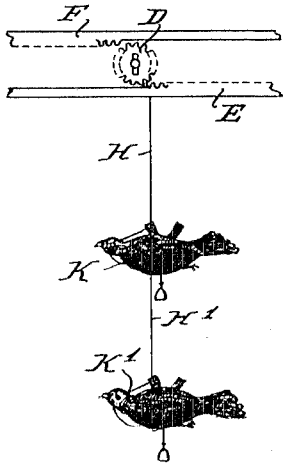


Fig. 3.



Witnesses:

Wilhelm Graefe

John Mulfy

Inventor

Alma Schädel née Höppener

UNITED STATES PATENT OFFICE.

ALMA SCHÄDEL, NÉE HÖPPENER, OF LÜBECK, GERMANY.

CAROUSEL.

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To all whom it may concern:

Be it known that I, ALMA SCHÄDEL, *née* HÖPPENER, subject of the German Emperor, residing at 16b Roeckstrasse, Lübeck, Germany, have invented certain new and useful Improvements in Carousels, of which the following is a specification, reference being had therein to the accompanying drawing.

This invention relates to carousels, or flying jennies, the seats or cars of which represent birds.

The invention comprises means whereby these seats by means of ropes or cables are operatively connected to rollers or drums mounted rotatably on horizontal shafts connected with a perpendicular central driving shaft. These drums are connected with cog wheels disposed between bands supplied with cogs arranged intermittently in series, so that the cog wheels engage, first with the cogs on one band and then with the cogs on the other band and thus being made to rotate forward and backward intermittently; so that the birds are raised or lowered according as the cog-wheels engage above or beneath, which by winding up or unwinding the cable from the drums causes the birds to be raised or lowered, as they move forward around their circular course.

In the drawing herewith, a form of the invention is shown by way of an example.

Figure 1, of the drawing is a plan view of the device. Fig. 2 is a side elevation partly in section. Fig. 3 is a detail side view of a part of the device.

In the drawing A, designates a vertical, central shaft, which is connected in any preferred way with driving power. To this shaft A horizontal shafts B, are radially connected. On each shaft B, a number of drums, C, C′, C^2, C^3 are connected with each other, and together with a cog-wheel D, are rotatably mounted on the shaft B. The cog wheel D, is on the outer end of the shaft D. Each drum carries two cables, chains, or the like, H, H^1, H^2, H^3, on which the seats in the form of birds K, K^1, K^2, K^3, are fastened. In order to prevent any turning of the seats when in motion, two cables should be used on each car. The seats are wound up and unwound alternately so that, for instance, the seats H^1, H^3, are in an elevated position when the seats H, H^2, are in a lowered position.

The cog-wheels D are disposed between two annular bands E and F, which are provided with interrupted rows of cogs each of which confronts a portion of the opposite band, which has no cogs in such a manner that the cog rows of the band E, lie beneath the interruptions of the cogs on the band F, and vice versa. By these interruptions of the cogs in the two bands E and F, the drums C, C^1, C^2, C^3, are rotated backward and forward so that intermittently, the seats H, H^2, occupy the highest point in their movement, and by the turning back of the cog wheel the other pair of drums H^1, H^3, occupy their highest position. The birds K, K^1, K^2, K^3, are provided with saddles, bridles, stirrups, etc., to form a convenient seat. And beside, the birds can be made in various species, and be supplied with a mechanism which will move the heads, tails and wings of the birds.

The operation of the carousel is as follows: The shaft A turned by any preferred power takes the horizontal shafts along with it and the cog-wheels D, D^1, D^2, D^3, located between the bands E and F, are moved in the cogs of the bands according as they engage the rack above or beneath, or turn forward or backward so that the drums C, C^1, C^2, C^3, also move, and in turning them in one direction, winding up, and in turning them in the other direction, winding off the cables H, H^1, H^2, H^3, whereby the birds receive an up and down motion.

The mechanical arrangement of this new carousel can be made as desired, as the arrangement generally admits various deviations in the construction of the different parts. The illustrations in the drawing can therefore be taken as but one of the various forms for which necessity may call.

Having now described the invention, what I claim and desire to secure, is,—

A carousel whose seats represent birds comprising a central, vertical driving shaft, horizontal shafts radially connected to said central shaft, radial drums on said horizontal shafts, car supporting cables adapted to be wound and unwound from said drums, cog wheels on the outer ends of

said horizontal shafts and rigidly attached to the drums, mutually facing annular racks having interrupted cogs to engage said cog wheels the cogs on one rack facing the interruptions on the other rack, whereby said cog-wheels and said drums are rotated to raise and lower said seats.

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

ALMA SCHÄDEL, NÉE HÖPPENER.

Witnesses:
WILHELM GRAEFE,
JOHN WULF.