

No. 769,045.

PATENTED AUG. 30, 1904.

E. L. APPLEBY.
CAROUSEL.

APPLICATION FILED NOV. 30, 1903.

NO MODEL.

3 SHEETS—SHEET 1.

FIG. 1.

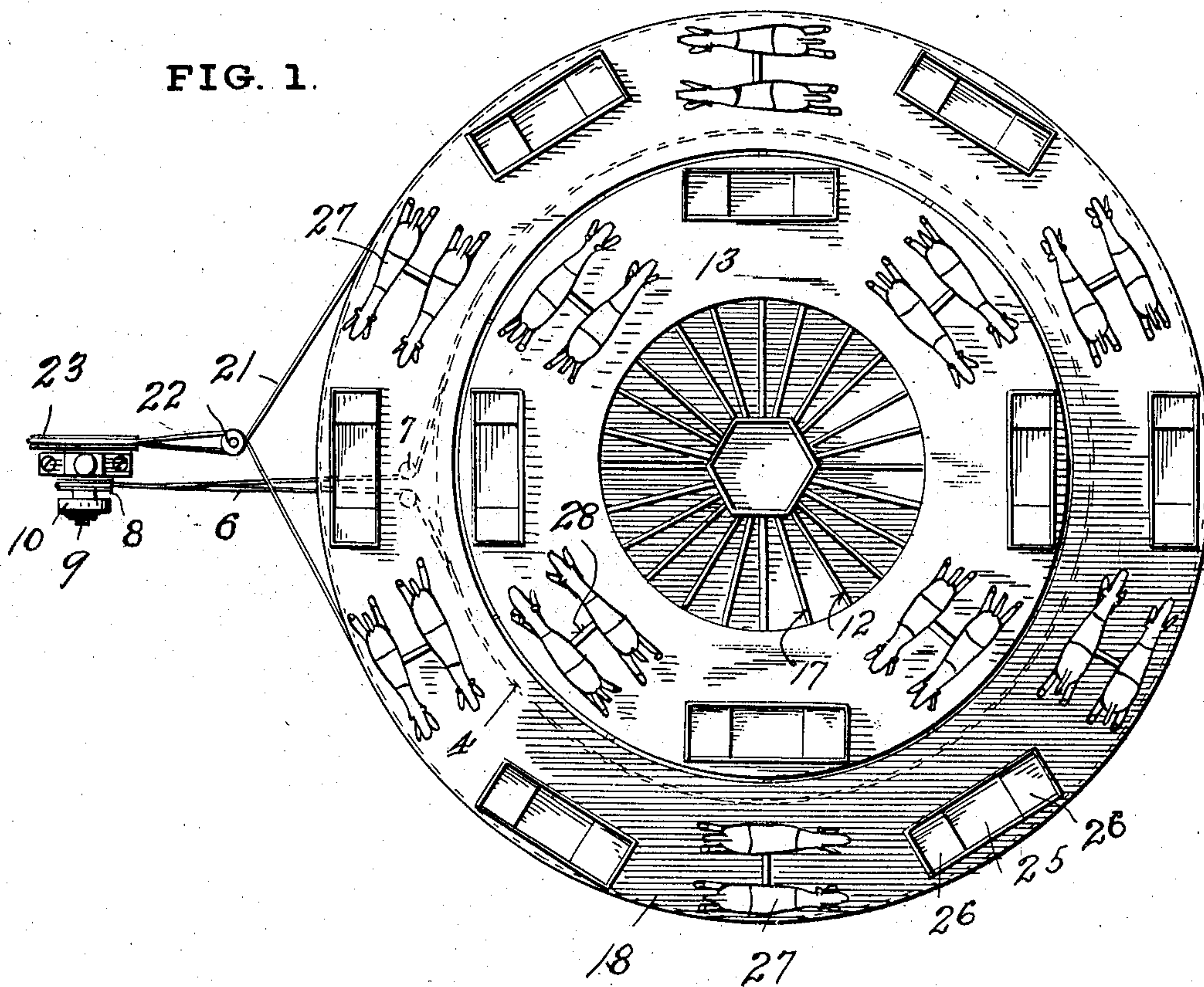
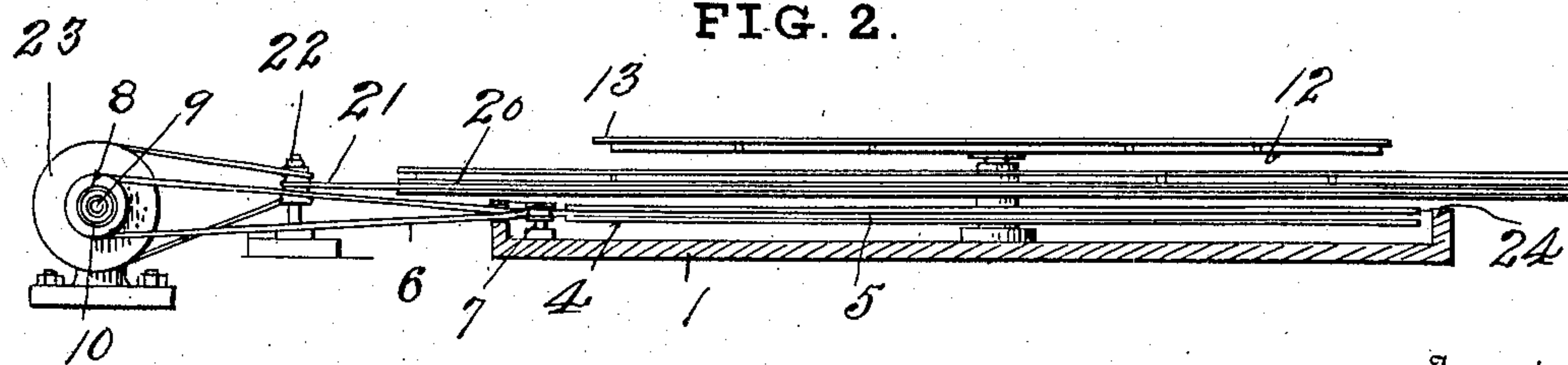


FIG. 2.



Witnesses

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3 SHEETS—SHEET 2.

FIG. 3.

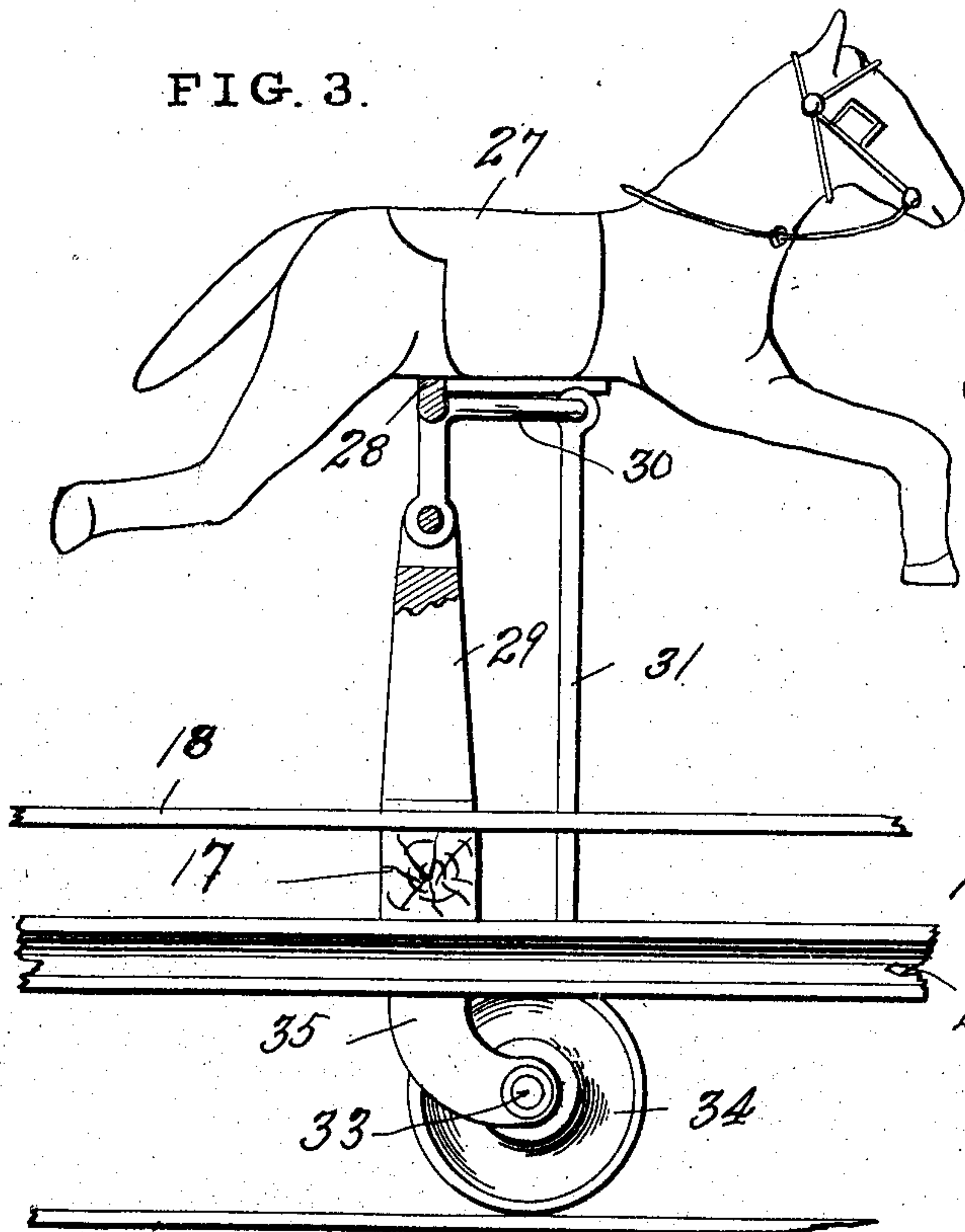


FIG. 4.

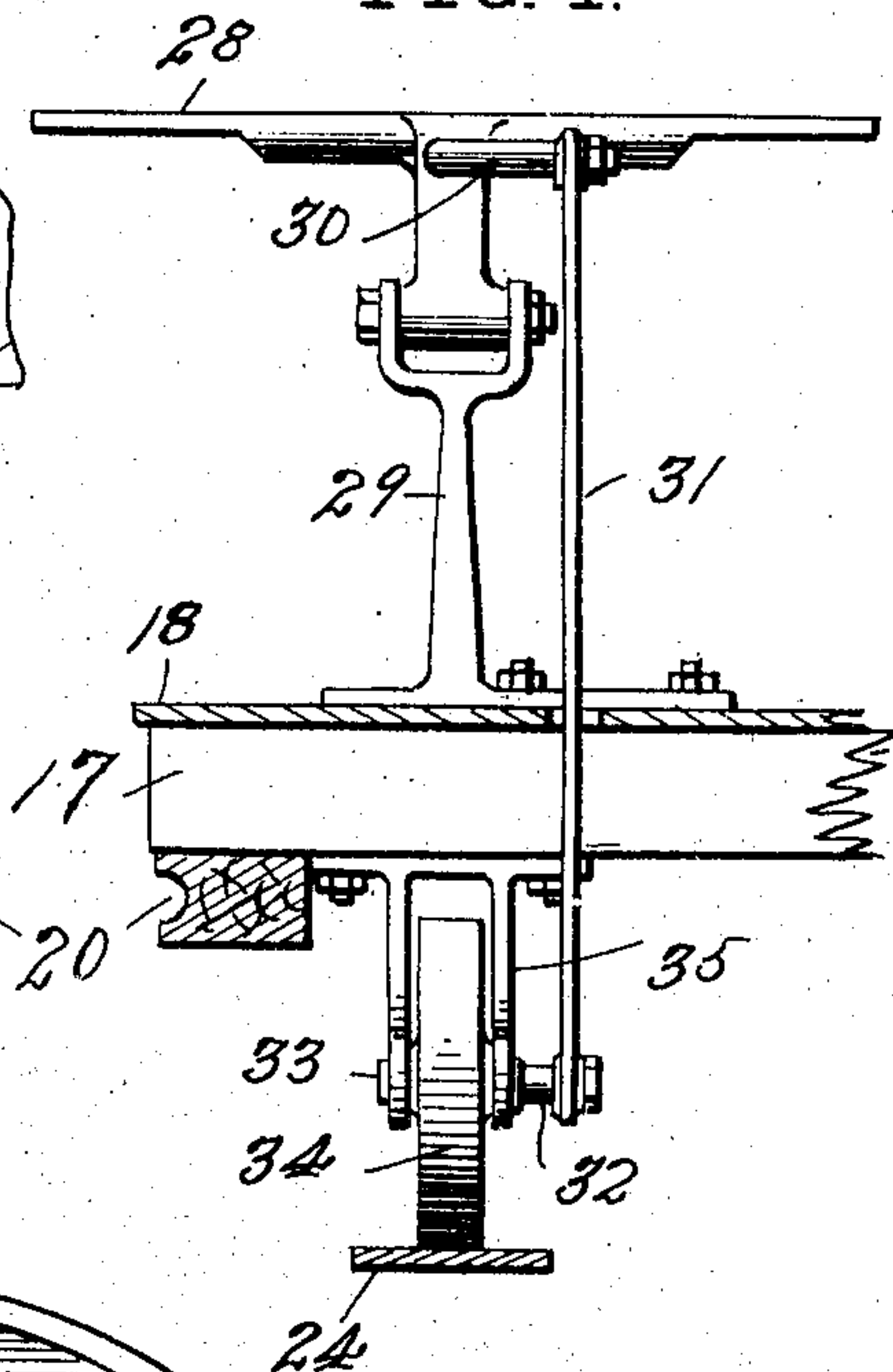
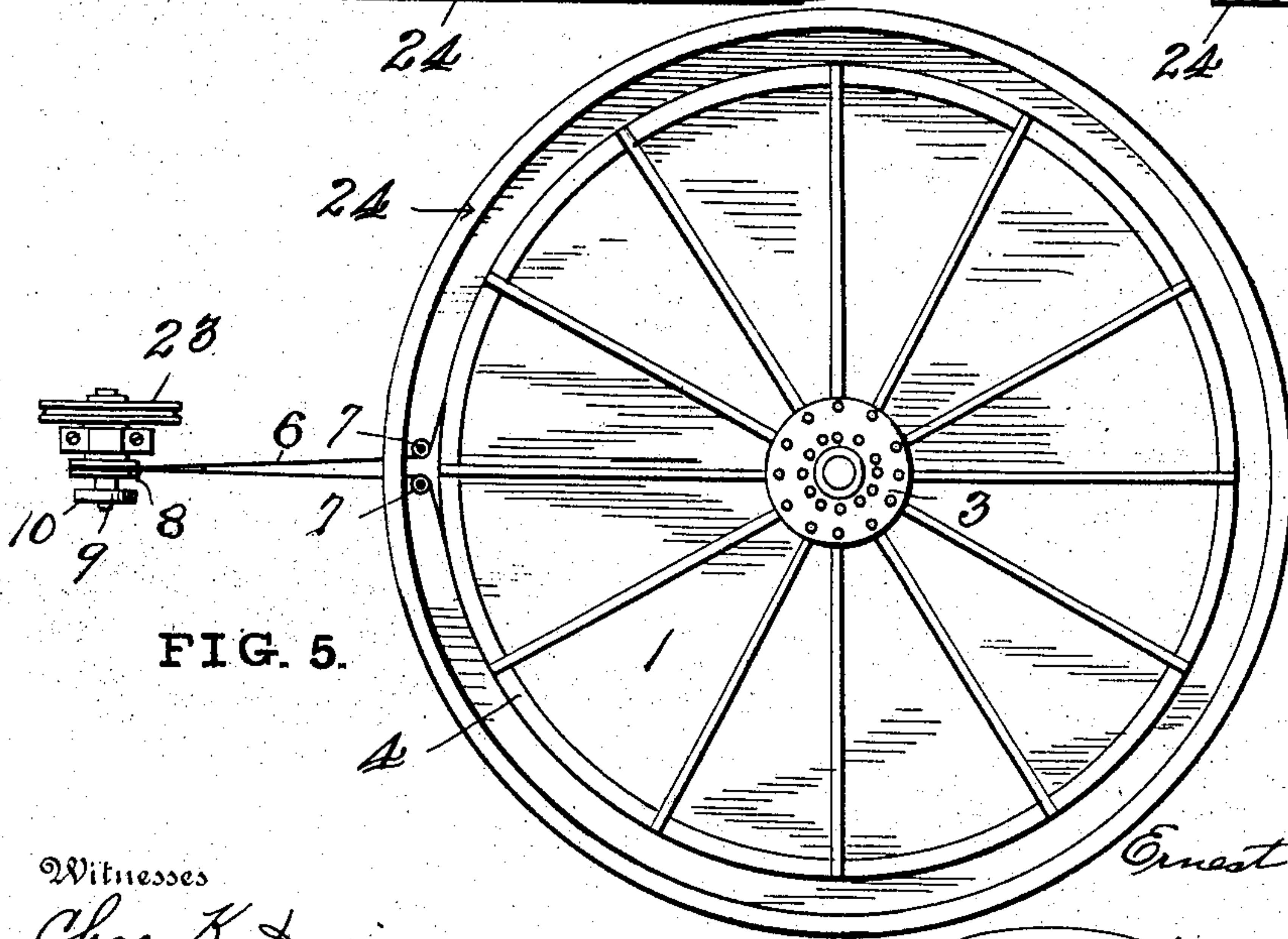


FIG. 5.



Witnesses

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3 SHEETS—SHEET 3.

FIG. 6.

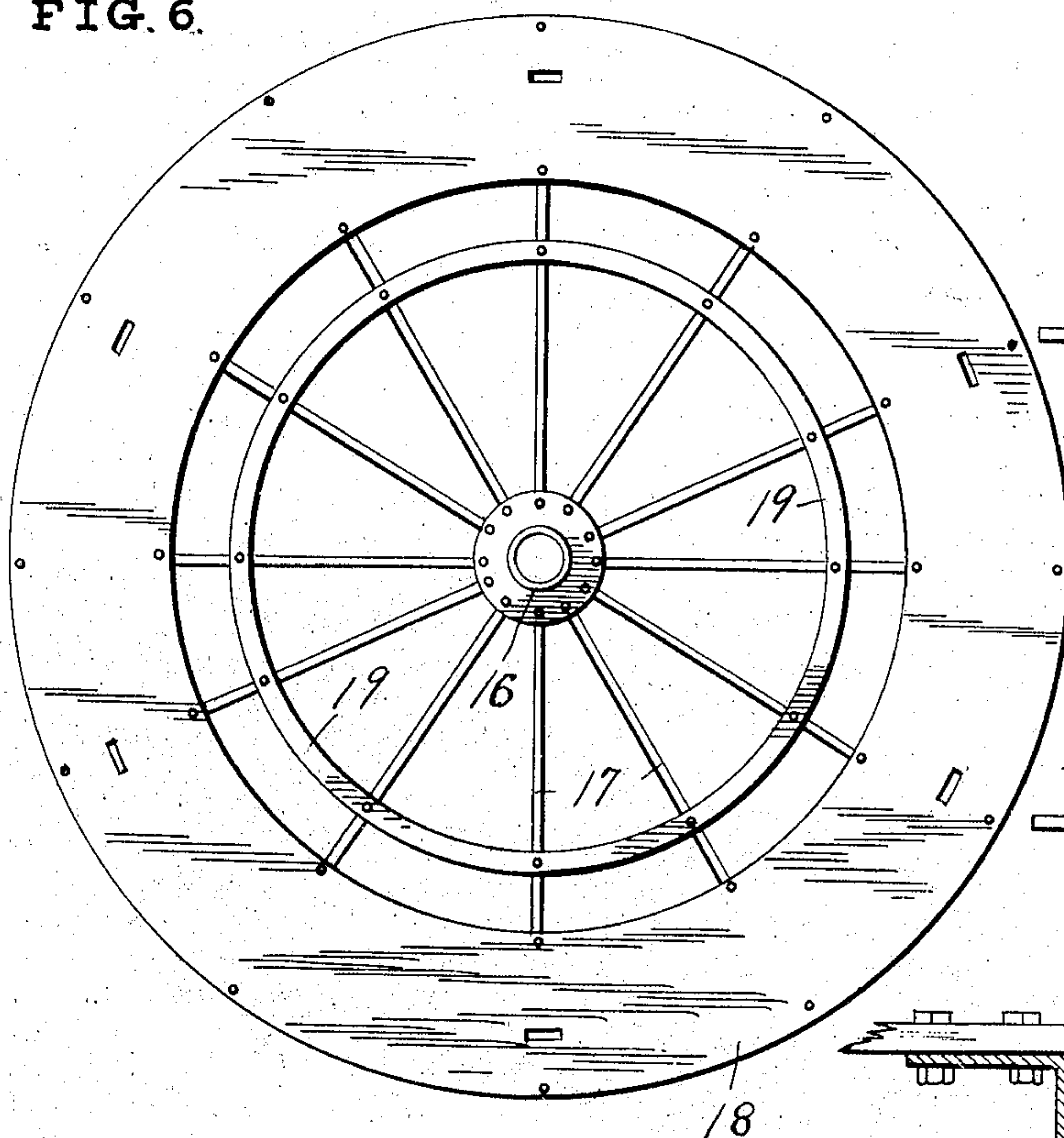


FIG. 7.

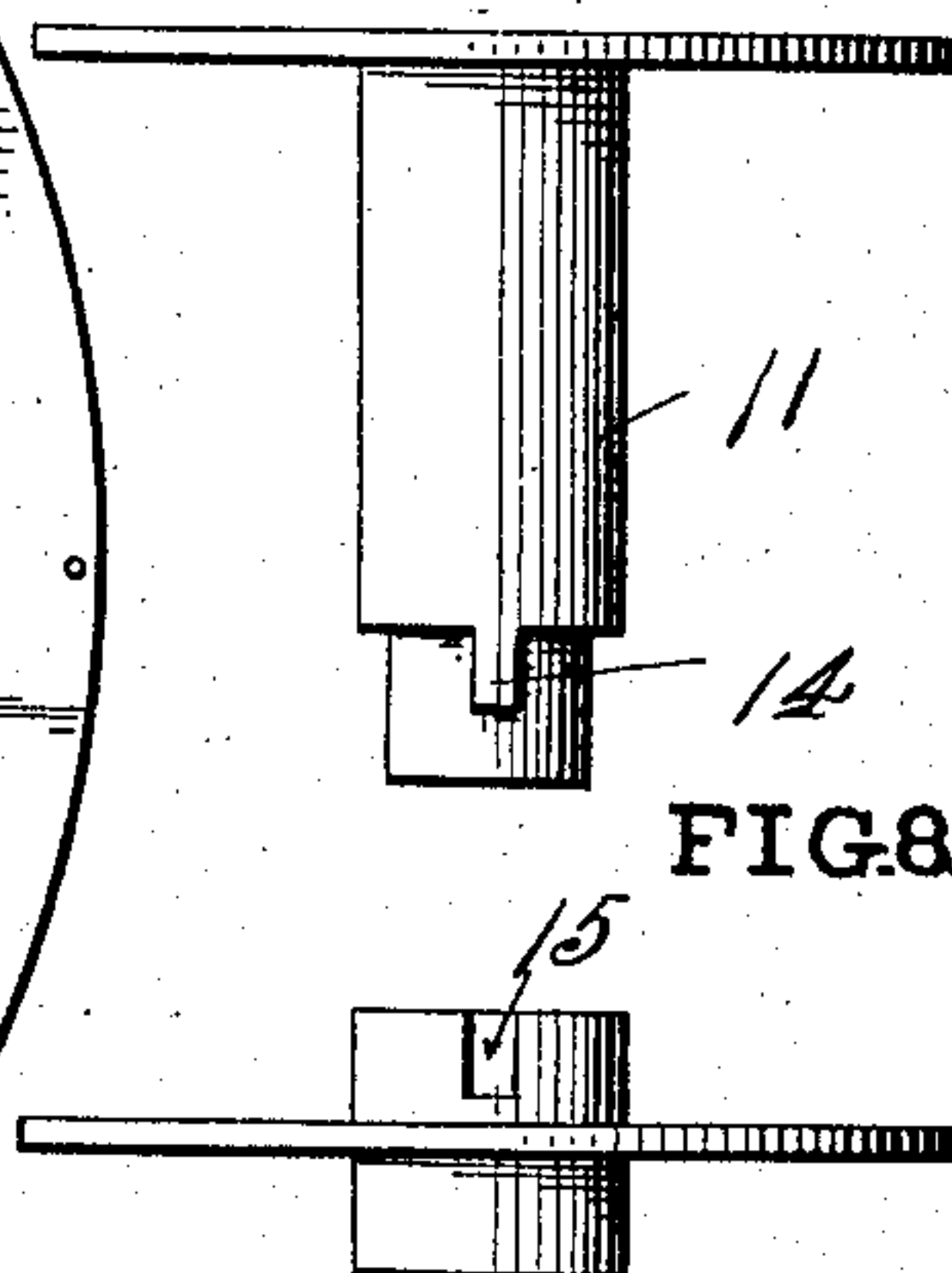
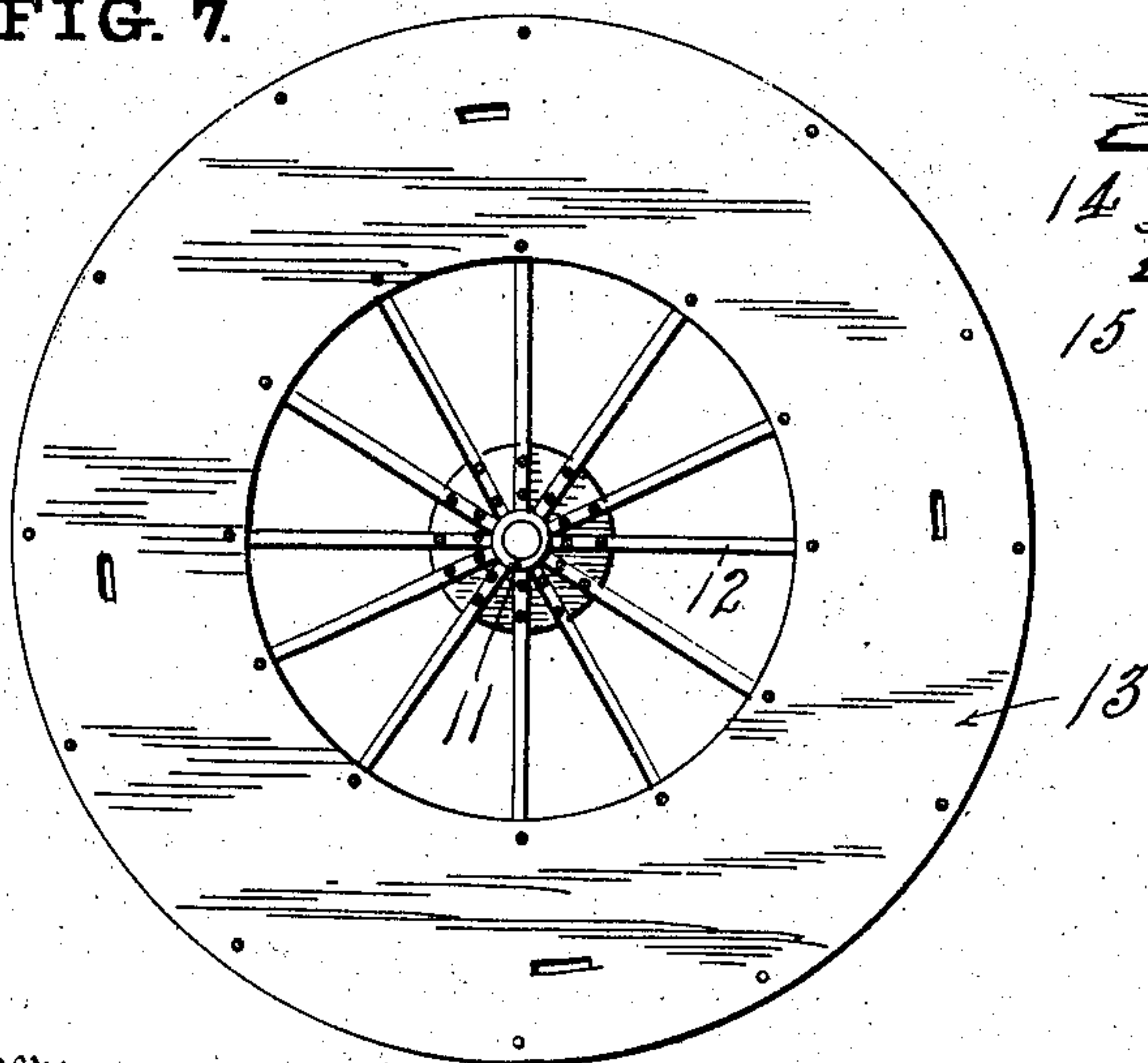


FIG. 8.

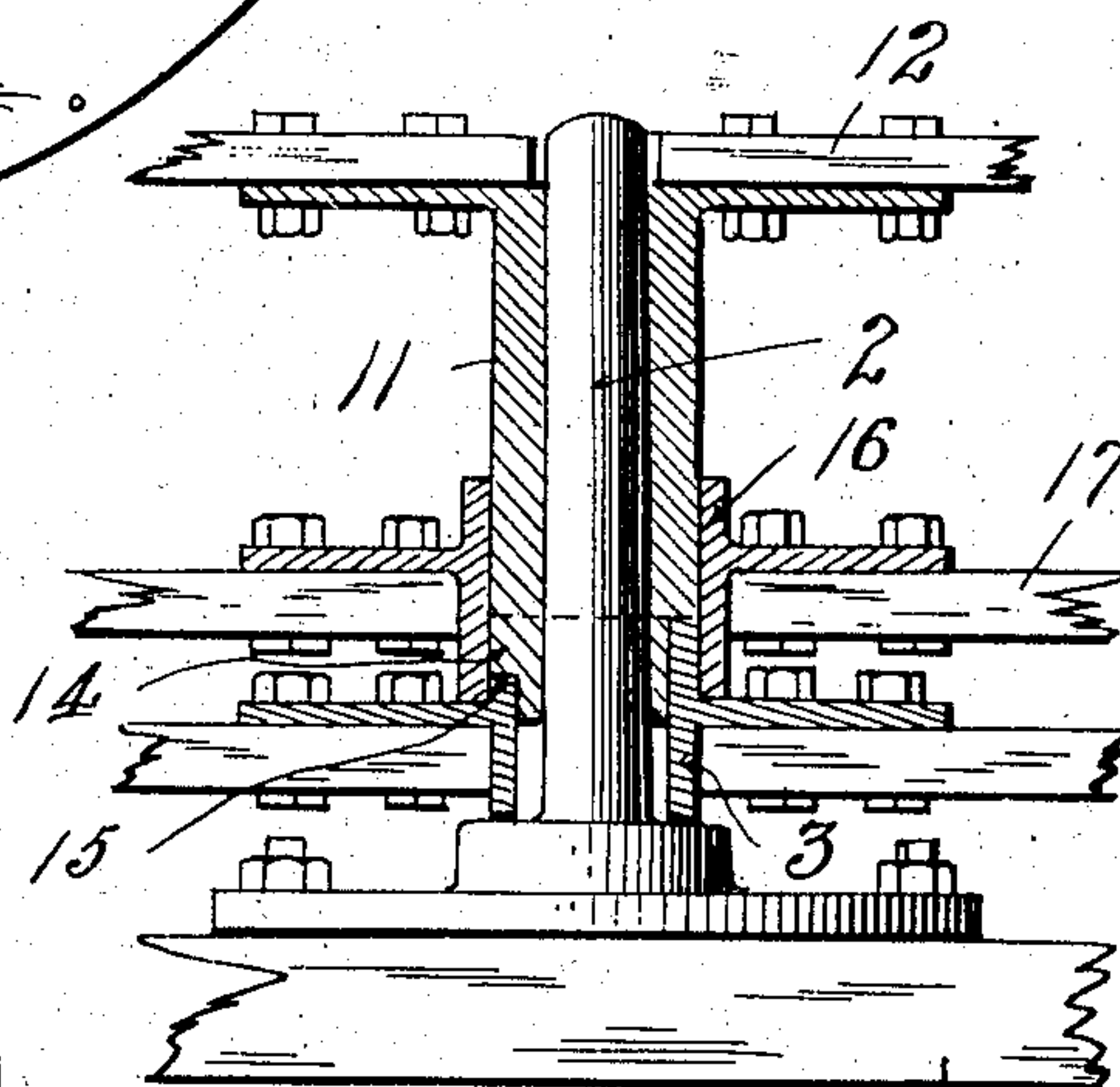


FIG. 9.

Witnesses

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UNITED STATES PATENT OFFICE.

ERNEST L. APPLEBY, OF BRADFORD, PENNSYLVANIA.

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SPECIFICATION forming part of Letters Patent No. 769,045, dated August 30, 1904.

Application filed November 30, 1903. Serial No. 183,164. (No model.)

To all whom it may concern:

Be it known that I, ERNEST L. APPLEBY, a citizen of the United States, residing at Bradford, in the county of McKean and State of Pennsylvania, have invented certain new and useful Improvements in Carousels, of which the following is a specification, reference being had therein to the accompanying drawings.

My invention relates to improvements in carousels; and one object of my invention is the provision of a carousel or merry-go-round which will have double the capacity of the ordinary construction and which will have the platforms revolving in opposite directions in order that they will pass and repass each other, and thus add materially to the pleasure and amusement derived therefrom.

Another object of my invention is the provision of a carousel or merry-go-round which will have double the capacity, but will not occupy a greater amount of space than the present form of carousel, and which may be driven from a single source of power, thus saving great expense in the manipulation or running of the invention, but by reason of its increased capacity rendering the improvement more desirable and much more profitable.

Another object of my invention is the provision of a carousel or merry-go-round which will be of extremely simple and inexpensive construction, which will be more amusing and interesting, which can be run at small expense, and which will be practical in every particular.

With these objects in view my invention consists of a carousel or merry-go-round embodying novel features of construction and combinations of parts, substantially as disclosed herein.

Figure 1 is a top plan view of my complete carousel or merry-go-round. Fig. 2 represents a side elevation of the invention with the "figures" and seats removed, particularly showing the connection of the operating means and the two platforms. Figs. 3 and 4 represent enlarged detail views of the figures and their mounting and connections. Fig. 5 represents a plan view of the driving-wheel and mechanism for the upper platform and

also the track for the horses of the lower platform to run upon. Fig. 6 represents a top plan view of the lower platform and track for the upper horses to travel upon, and Fig. 7 represents a plan view of the said upper platform. Figs. 8 and 9 represent enlarged detail views showing particularly the connection of the upper and lower platforms and the supporting-base and the manner of locking the upper platform to the driving-wheel.

Referring by numerals to the drawings, in which similar numerals of reference denote corresponding parts in the several views of the drawings, the numeral 1 designates the base or foundation structure of my carousel, from the center of which rises the pin or spindle 2, and upon the lower portion of the spindle fits the hub 3 of the driving-wheel 4, which is provided with a grooved periphery 5, in which fits and travels the driving-belt 6, which is guided by the grooved pulleys 7 to the driving-pulley 8, mounted on the shaft 9, carrying a driving-pulley 10, driven by suitable power, as will be understood. Mounted upon said pin or spindle is the sleeve or ferrule 11, which carries the spokes 12, upon which is mounted the upper platform 13, and to cause said upper platform to revolve with the driving-wheel I provide the lug 14 on the said sleeve, which engages the kerf 15 on the hub of the said driving-wheel, and thus when the driving-wheel revolves the upper platform is similarly revolved.

Fitting around the sleeve of the upper platform is the hub 16, which carries the spokes 17, upon which is mounted the lower and larger platform 18, the spokes also carrying the track 19 for the figures or animals of the upper track to travel upon, and the lower platform is provided with a peripheral groove 20, with which engages the driving-belt 21, which passes around the guide-pulley 22 and over the large grooved driving-pulley 23, mounted on the driving-shaft, and the track 24, which is adjacent to the driving-wheel, is provided for the truck of the lower series of animals, carried by the lower platform, to travel upon.

Upon each of the platforms is arranged a se-

ries of bodies 25, each having a pair of seats 26, and alternately with reference to said bodies are arranged the sets or series of figures 27, which may represent horses or any other animal, as desired, and each set of animals is mounted on a transverse bar 28, pivoted in a bearing-post or standard 29, and said cross-bars are each formed with a crank-arm 30, to which is connected the upper end of a link 31, whose lower end is mounted on a crank 32, carried by the axle 33, upon which is secured a wheel 34, pivoted in brackets or hangers 35, and from this construction it will be observed that as the platforms revolve the horses are given a rocking motion to simulate the action given by a live horse to render the figures more lifelike and to insure a greater amount of amusement and pleasure.

From the foregoing description, taken in connection with the drawings, the operation of my carousel will be readily understood, and it will be observed that when power is applied the platforms will revolve in opposite directions, causing the figures to pass and repass; also, that the double platform vastly increases the capacity of my machine, and thus adds greatly to its revenue without increasing the cost of power; also, that the same amount of space is occupied as in the old form of machines, and that in general the entire machine possesses merit in point of efficiency, desirability, and usefulness.

I claim—

1. In a carousel the combination of a base or support, a spindle or bearing rising from the center thereof, the driving-wheel having its hub mounted on said spindle, a sleeve surrounding and mounted on said hub and carrying a platform, an elongated sleeve carrying an upper platform and connected with said hub of the driving-wheel, mechanism for rotating said platforms, a series of figures mounted upon each of said platforms, traveling wheels for the platforms, suitable tracks for said wheels and means connecting the figures with the traveling wheels to impart a rocking motion to said figures.

2. In a carousel the combination of a base, a central spindle rising therefrom, a hub carrying a driving-wheel mounted on said spindle, an elongated sleeve mounted on said spindle and connected with said hub of the driving-wheel and carrying an upper platform, traveling wheels for said platform; a second hub mounted on said first-mentioned hub and surrounding said sleeve and carrying a lower platform provided with wheels and carrying also a track for the wheels of the upper platform; a track formed on the base for the wheels of the lower platform, and means for revolving said lower platform and driving-wheel.

3. In a carousel, the combination of a base, a central bearing-spindle rising from the base, a driving-wheel having its hub mounted on said spindle, a sleeve carrying an upper platform and connected to revolve with said hub, a hub surrounding said sleeve above the lower hub, and means for imparting motion to the lower hub for revolving the upper platform and means for revolving the lower platform in an opposite direction.

4. In a carousel, the combination of a base, a central bearing-spindle rising from said base, a driving-wheel having its hub mounted on the spindle and formed with a kerf, a sleeve carrying an upper platform and having a lug to engage the kerf of the hub to cause the upper platform to revolve with the driving-wheel, a hub surrounding said sleeve and carrying a lower platform, means for revolving the driving-wheel and lower platform in opposite directions, rollers carried by the platforms, tracks upon which said rollers travel a series of carriages and figures mounted upon the platforms, and mechanism connected with the figures and rollers to impart a rocking motion to said figures.

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

ERNEST L. APPLEBY.

Witnesses:

EDWARD JIFKINS,
CLYDE C. CANFIELD.