(No Model.)

3 Sheets—Sheet 1.

T. A. CARL.

CARROUSEL.

No. 244,376. Patented July 19, 1881.

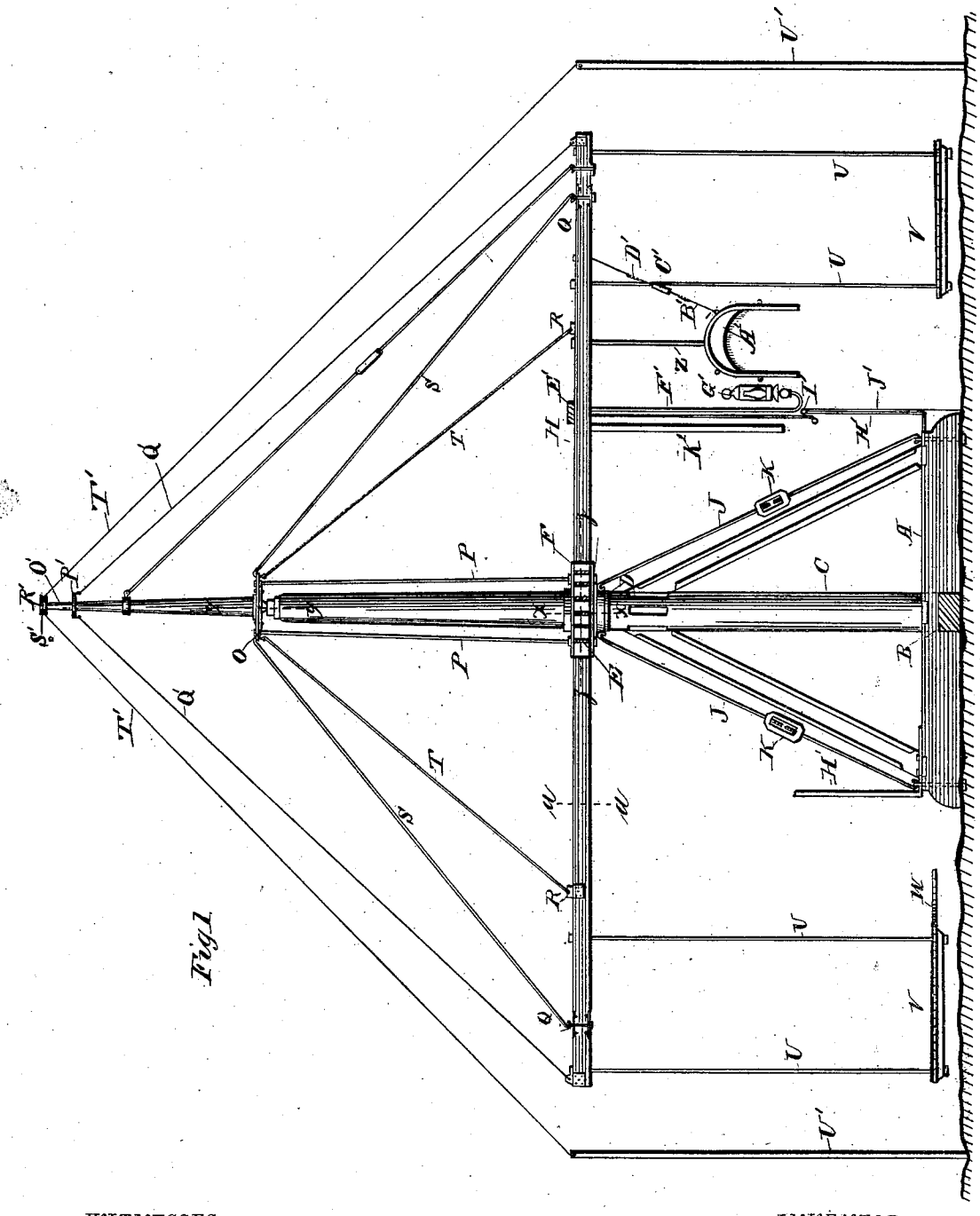

Fig. 1.

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(No Model.) 3 Sheets—Sheet 2.

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Fig. 2.

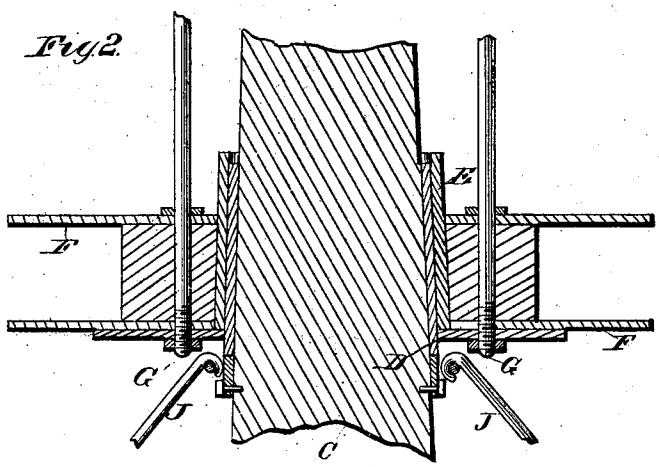
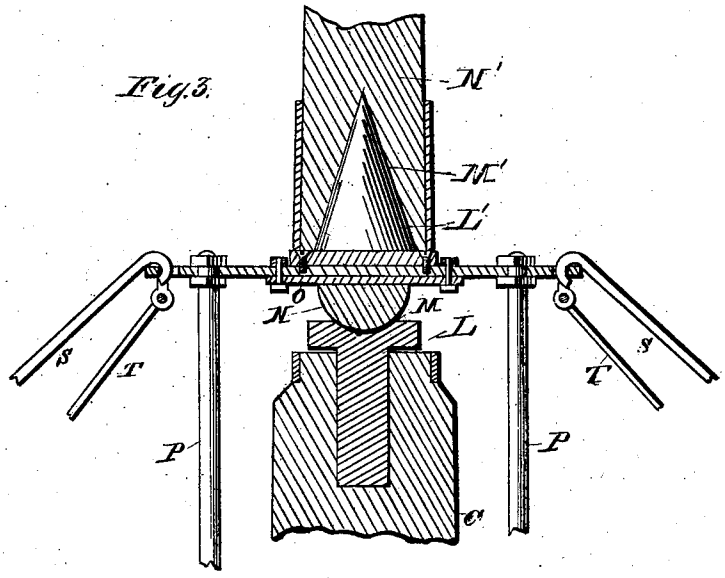


Fig. 3.



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(No Model.) 3 Sheets—Sheet 3.

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Fig. 4.

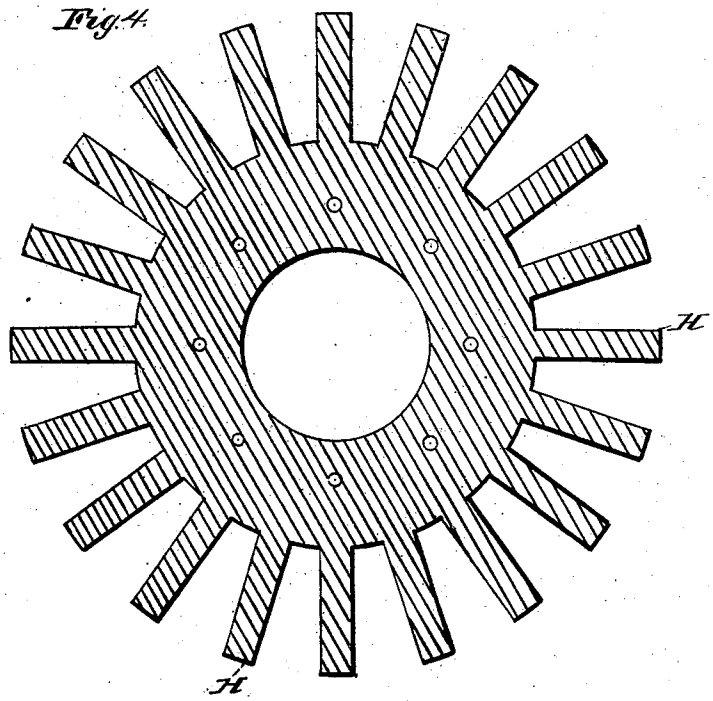


Fig. 5.

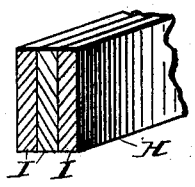
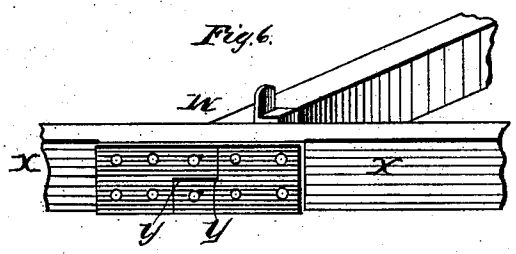


Fig. 6.



WITNESSES

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UNITED STATES PATENT OFFICE.

THOMAS A. CARL, OF NASHVILLE, TENNESSEE.

CARROUSEL.

SPECIFICATION forming part of Letters Patent No. 244,376, dated July 19, 1881.

Application filed June 6, 1881. (No model.)

To all whom it may concern:

Be it known that I, THOMAS A. CARL, of Nashville, in the county of Davidson and State of Tennessee, have invented certain new and useful Improvements in Carrousels; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification.

Figure 1 is a vertical sectional view of my improved carrousel. Fig. 2 is an enlarged vertical sectional view on the line *x x*. Fig. 3 is an enlarged vertical sectional view on the line *y y*. Fig. 4 is a horizontal sectional view on the line *z z*. Fig. 5 is a cross-section of one of the beams on the line *a a;* and Fig. 6 is a detail view, showing the construction of the floor.

Corresponding parts in the several figures are denoted by like letters of reference.

This invention relates to carrousels; and it consists in certain improvements in the construction of the same, which will be hereinafter fully described, and particularly pointed out in the claims.

In the drawings hereto annexed, A represents the base, which consists of cross bars or ties B B, suitably mortised together or jointed, and provided with a central bearing or socket for the central vertical post or upright, C. The latter is provided at a suitable distance above the ground with a conical or incline-faced sleeve or bearing, D, for a hub, E, consisting of horizontally-disposed flanged metallic plates F, secured together by bolts G, and clamping the spokes or beams H, which radiate from the said hub and form the body of the carrousel frame. The spokes or beams H are each constructed of three or more parallel planks, I I, as shown in Fig. 5 of the drawings, the object of this construction being to avoid warping or springing of the parts, by which a device of this kind would be rendered wholly inefficient and inoperative. The lower flanged end of the sleeve D is connected by rods J, having tightening-nuts K, with the outer ends of the base-bars or cross-ties B, so as to enable the main post or upright C to be adjusted and secured in a vertical or plumb position. At its upper end the upright C is provided with a metallic socketed or recessed sleeve or cap, L, in the recess of which, M, is journaled the stud or gudgeon N of a horizontal plate, O, connected to the hub E by vertical parallel rods P, as shown. Ordinary nuts are to be employed to adjust and tighten the several parts together.

The beams or spokes H are to be connected at the points Q R, by means of rods S T, with the horizontal plate O, as shown, thus forming a rotary frame consisting essentially of the hub, the spokes, the upper socketed plate, O, and the connecting-rods.

The spokes or beams H are provided with downward-depending adjustable rods U, supporting the floor V of the carrousel. The said floor is composed of a number of sections, W, provided at their ends with transverse battens X, formed with shoulders Y, so as to receive the adjoining ends of the floor sections and enable the parts to be secured together by ordinary vertical bolts or other proper fastening devices, as shown.

It will be observed that the outer suspending-rods, U, are shorter than the inner ones, thus giving the floor of the carrousel an inward slant or incline, which greatly assists in preventing the displacement of many of the adjustable parts by the centrifugal force evolved by the operation of the machine.

One of the beams or spokes H is provided with a downward projecting or depending rod, Z, having at its lower end a yoke, A′, to which the horse by which the machine is to be drawn may be hitched. The said yoke is connected by several rods, B′, having intermediate swivel-nuts, C′, and links or chains B′, with the adjoining beams or spokes H, so as to produce a strong and direct draft.

A flat band, E′, which connects the spokes H at a short distance from the center-pole, is provided with downward-depending brackets or holders, F′, for suitable lamps, G′, which thus consequently revolve with the revolving frame of the carrousel.

Mounted upon the base pieces or ties B are several L-shaped uprights or supports, H′, the upper ends of which are connected by a circular band or heavy wire ring, I′, from which is suspended a canvas cover, J′, which may be attractively painted in any suitable manner,

or otherwise decorated. A similar circular curtain or cover, K′, is to be suspended from the band E′, in rear of the lamp-brackets, as shown, and brace-rods for holding the latter curtain or cover taut are secured to the beams or spokes H, from which they depend downwardly, as shown.

The horizontal plate O, which forms the top of the revolving carrousel-frame, is provided with an upward-projecting conical stud, L′, for which a bearing, M′, is formed in the mast or upright N′, which is mounted vertically upon the said plate. The mast N′ is provided at its upper end with a swiveled head-piece, O′, having near its lower end a flange, P′, connected by ropes, rods, or chains Q′ with the ends of the spokes or beams H. The upper end of the head-piece O′ is provided with a knob, R′, having an annular <-shaped recess for a ring, S′, to which is connected the upper end of the conical storm-tent T′, the lower ends of which are connected to suitable posts or uprights, U′ U′, which may also serve to hold or support a circumferential wall or curtain.

From the foregoing description, taken in connection with the drawings hereto annexed, the operation and advantages of my invention will be readily understood. The device is simple, convenient, easily erected, durable, and the revolving frame will operate under the storm-tent without disturbing the position of the latter in any way.

Having thus described my invention, I claim and desire to secure by Letters Patent of the United States—

1. In a carrousel, the combination, with the main post C, having a conical or incline-faced bearing, D, and recessed top plate, L, of the revolving frame consisting of the hub E, spokes H, plate O, having gudgeon N, and suitable connecting-rods, as herein described, for the purpose set forth.

2. In a carrousel, the combination, with the main post or upright C, of the revolving frame herein described, the mast N′, and the storm-tent, all arranged and operating as herein described, for the purpose set forth.

3. In a carrousel constructed substantially as described, the combination, with the base and with the revolving frame, of the L-shaped uprights mounted upon said base, the circular ring or band I′, and the screen or curtain J′, mounted upon the latter, as described, for the purpose set forth.

4. In a carrousel constructed substantially as described, the combination, with the revolving frame having spokes or beams H, of the circular band E′ and the lamp-brackets F′, depending from the latter, as described, for the purpose set forth.

5. In a carrousel constructed substantially as herein described, the radiating spokes or beams H, constructed each of three or more parallel planks suitably secured together, as set forth.

6. The combination, with the herein-described revolving frame of a carrousel, of the yoke-rod Z A′, depending from one of the beams or spokes H of the revolving frame, and connected to the adjoining spokes by swiveled combined rods and chains, as herein described, for the purpose set forth.

7. In a carrousel, the combination of the upright C, swiveled mast N′, revolving frame, constructed as herein described, and the storm-tent, all arranged and operating as and for the purpose set forth.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

THOMAS A. CARL.

Witnesses:

EDWARD GANNAWAY,

JNO. H. BASKETTE.