

No. 867,187.

PATENTED SEPT. 24, 1907.

E. F. CHUBBUCK.
PLEASURE SWING.

APPLICATION FILED OCT. 5, 1906.

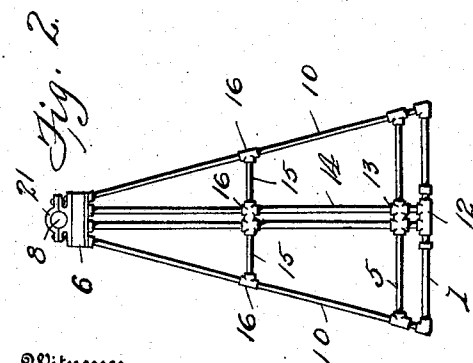
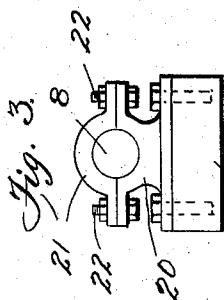
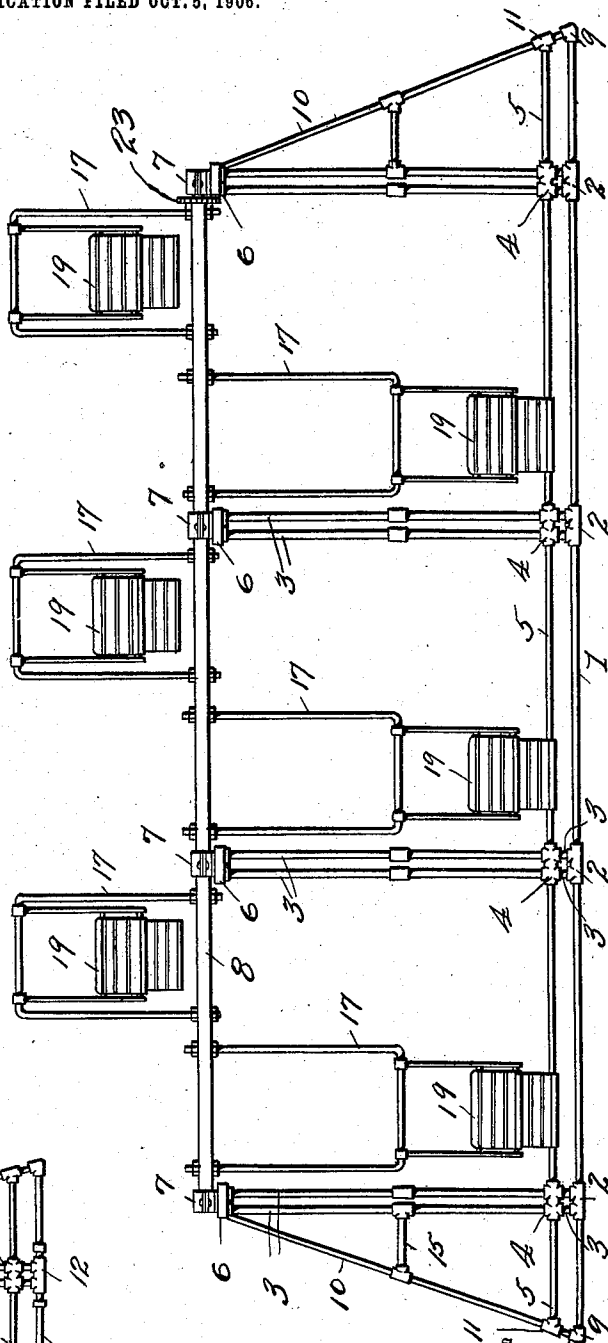


Fig. 1.



Witnesses

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PLEASURE-SWING.

No. 867,187.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that ELTON F. CHUBBUCK, a citizen of the United States, residing at Hornell, in the county of Steuben and State of New York, has invented certain new and useful Improvements in Pleasure-Swings, of which the following is a specification.

This invention relates to new and useful improvements in pleasure swings and it pertains particularly to that type of construction modeled after the well known "Ferris wheel".

The invention aims as a primary object to provide a swing of the above type which, owing to certain novel features of construction, may be increased or decreased in size and consequent capacity of accommodation.

The invention aims as a further object to provide a swing which shall require a minimum degree of power for its operation, the chairs being so arranged that they counterbalance one another.

The invention aims as a further object to provide a swing which shall be self-sustaining and in which the usual foundations and structural work are eliminated.

The invention finally aims to provide a device of the above type which shall be simple in construction, inexpensive to manufacture, strong and durable, and practical and efficient in use.

The detailed construction will appear in the course of the following description, in which reference is had to the accompanying drawings forming a part of this specification, like numerals designating like parts throughout the several views, wherein

Figure 1 is a front elevation of a swing constructed in accordance with my invention. Fig. 2 is an end elevation thereof, and Fig. 3 is a detailed side elevation of a bearing of conventional form in which the main shaft carrying the chair hangers is journaled.

In the practical embodiment of my invention I employ a supporting structure of skeleton form comprising a plurality of interconnected frames. The structure is preferably of extra heavy tubular piping and embodies primarily a rectangular frame 1 which forms the base or ground support of the appurtenant elements of the apparatus. Mounted on each of the side bars at corresponding coextensive intervals are castings 2. The castings 2 are of L shape in side elevation and are provided in each of their legs with double threaded openings having parallel axes for the reception of vertical and horizontal braces which are in the preferred embodiment of the invention arranged in pairs for the purpose of adding strength and rigidity to the structure. The horizontal braces are not shown but extend

in parallelism to the end bars of the frame 1 as will be readily understood. For the purpose of strengthening the base of the structure a second rectangular frame 5 is provided, which carries thereupon castings 4 similarly arranged to the castings 2 and being designed to receive therethrough the inclined braces 3 fastened at their lower ends to the castings 2 and transverse braces not shown. The inclined braces 3 have connection at their upper ends with transverse plates 6 upon which are supported the split bearings 7 for the shaft 8. The frame 2 carries at each of its corners angular sections 9 which have connection with inclined end braces 10 projecting through T sections 11 provided upon the corners of the frame 5. The inclined end braces 10 at their upper ends have connection with the end transverse plates 6. The end bars of the frames 1 and 5 are provided with suitably constructed tubular clamping members 12 and 13 for the reception of central end braces 14 which likewise have connection with the end transverse plates 6. In like manner transverse braces have connection with central perpendicular braces not shown. It will be readily understood that the frames 1 and 5, the various braces and the shaft 8 may be made in sections united by the various clamping members above described, in order that the supporting structure may be expanded or decreased in size as above intimated. When the shaft 8 is made in sections suitable couplings must be provided therefor. The structure thus described is reinforced centrally thereof by horizontal braces 15 arranged at the ends and between the various inclined and perpendicular braces and held by suitably constructed clamps 16.

The shaft 8 carries between each series of braces 3 chair hangers 17 arranged in pairs which extend in opposite directions, the entire series of chair hangers being shown in staggered relation as in Fig. 1. In this manner the weight in one chair counterbalances the weight in the other chair. The hangers 17 are of substantial U shape and have their ends secured to the shaft 8. From the cross bars of said hangers the chairs 19 are pivotally suspended as will be readily understood. The shaft 8 is driven by a motor of approved type from any suitable gearing or gear element 23.

In Fig. 3 I have illustrated a conventional bearing for the shaft 8 which comprises a saddle plate 20 secured to the plate 6 and a superimposed bearing plate 21 having connection with said saddle plate by a bolt and nut fastening 22.

While the elements herein shown and described are well adapted to serve the functions set forth, it is ob-

vious that various minor changes may be made in the proportions, shape and arrangement of the several parts without departing from the spirit and scope of my invention as defined in the appended claims.

5 Having fully described my invention, I claim:

A device of the type set forth comprising a pyramidal skeleton supporting frame, a continuous straight shaft journaled longitudinally at the top thereof, U-shaped out-

standing frames secured to said shaft in staggered relation, and chairs pivotally suspended within said frames to 10 travel about said shaft, substantially as described.

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

ELTON F. CHUBBUCK.

Witnesses:

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