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# United States Patent Office.

I. N. FORRESTER, OF BRIDGEPORT, CONNECTICUT.

*Letters Patent No. 70,985, dated November 19, 1867.*

## ROTARY SWING.

The Schedule referred to in these Letters Patent and making part of the same.

### TO ALL WHOM IT MAY CONCERN :

Be it known that I, I. N. FORRESTER, of Bridgeport, Fairfield county, Connecticut, have invented a new and improved Rotary Swing; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 represents a side elevation of my improved swing.

Figure 2 is an end elevation partly in section of the same.

Similar letters of reference indicate corresponding parts.

This invention relates to a new rotary swing, which is so arranged that the seats revolve both around a horizontal axle and around a vertical axle, whereby a very agreeable motion is obtained, and whereby the sense of giddiness generally created by the simple revolution around a horizontal axis is completely overcome or avoided. The invention consists in arranging one or more frames, in each of which suitable seats are provided, each one around a horizontal axle, and in hanging the said axles upon uprights projecting from a revolving bed, and in mounting a gear-wheel or its equivalent upon each axle, said gear-wheels meshing into the teeth of a gear-wheel which is fixed upon a vertical post. When, now, the aforesaid bed is turned around the central vertical post, it will carry its appendages with it in its revolution, and the swings are thus also turned around the vertical axle, and at the same time also around their own horizontal axles, owing to the motion of the gear-wheels.

A represents a stationary bed, in the centre of which an upright post, B, is fixed, carrying a bevelled-gear wheel, *a*, upon or near its upper end. C is a bed, fitted loosely around the post B, and resting upon the bed A, as shown in fig. 2. D D are a series of uprights, strengthened by suitable braces projecting from and secured to the plate C. In the uprights D are bearings for two (more or less) horizontal axles *b b*, each of which has a gear-wheel, *c*, meshing into the pinion *a*, as shown. The inner bearings for these axles may, if desired, be in a block, *d*, which fits upon and turns on the upper end of the post B, as is clearly shown in fig. 2. E and E' are the frames for the swings. The same are mounted upon the axles *b*, as shown, so as to revolve with the same. Seats F, of suitable construction, are suspended in any suitable manner from the frames E E'. The number of frames E E' and of seats may be varied at pleasure, that of the former corresponding to the number of axles *b*.

It is evident that various devices for creating the combined horizontal and vertical revolving motion of a swing can be substituted for that herein described; and I do not wish to confine myself to the special mechanism described, but I do claim, and desire to secure by Letters Patent—

1. Rotating a swing or swings at once around horizontal and vertical axles, substantially as herein shown and described.

2. The revolving platform C, arranged around the post B, and provided with uprights D D, in combination with the swing-frames E, and their axles *b*, all made as set forth.

The above specification of my invention signed by me this 16th day of July, 1867.

I. N. FORRESTER.

Witnesses:

WM. F. McNAMARA,  
ALEX. F. ROBERTS.