(No Model.) 2 Sheets—Sheet 1.

H. J. F. SCHULZE.

ROUNDABOUT.

No. 274,228. Patented Mar. 20, 1883.

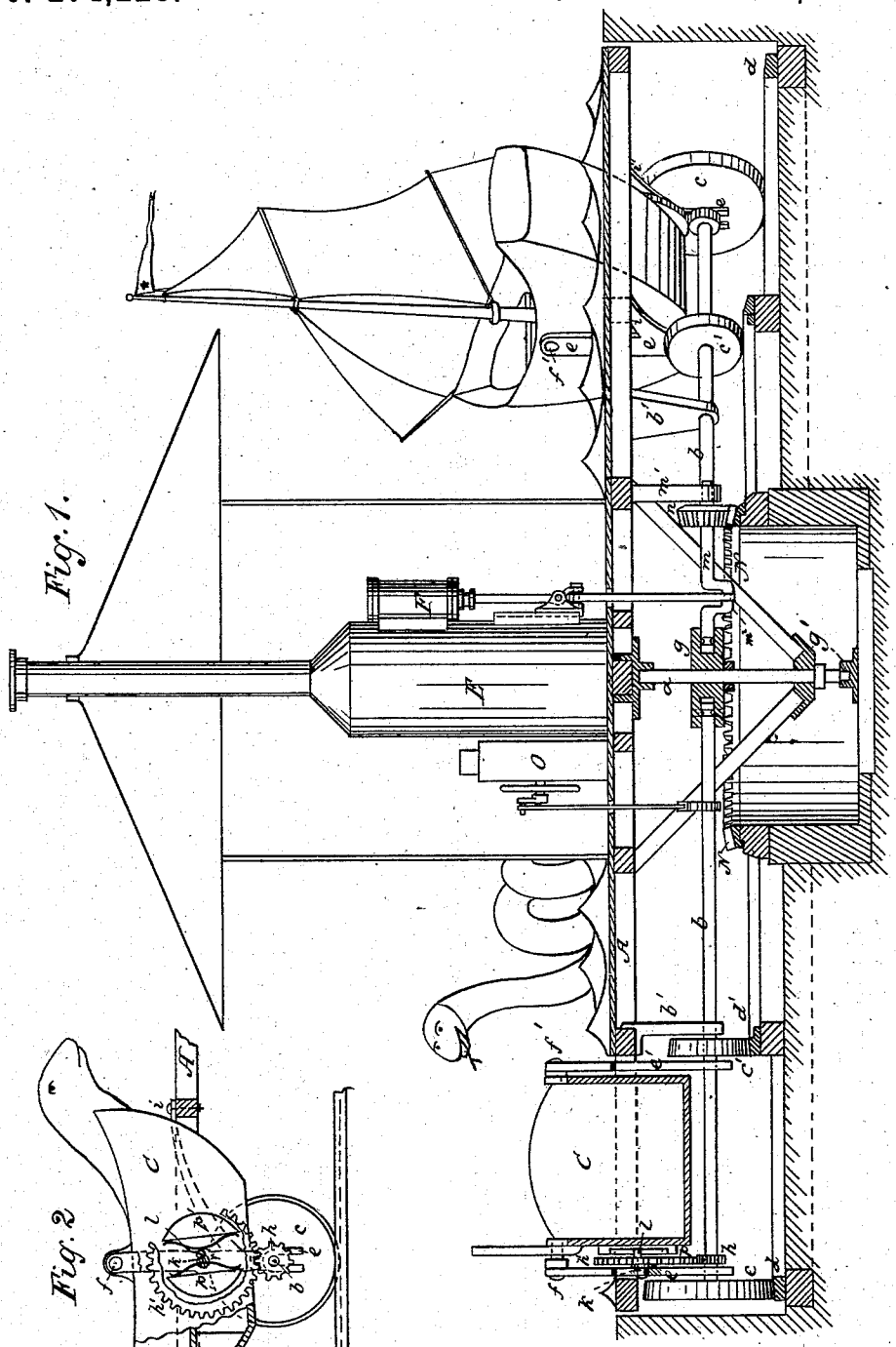

Fig. 1.

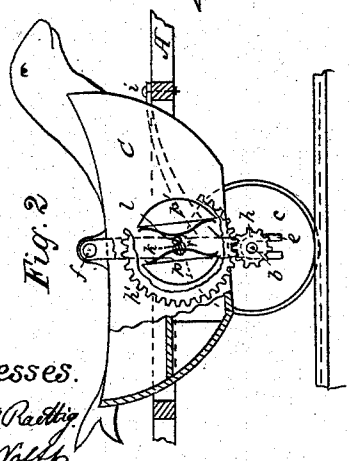

Fig. 2.

Witnesses.
Chas. Raetlig
E. Wolff.

Inventor.
H. J. F. Schulze

(No Model.) 2 Sheets—Sheet 2.

H. J. F. SCHULZE.

ROUNDABOUT.

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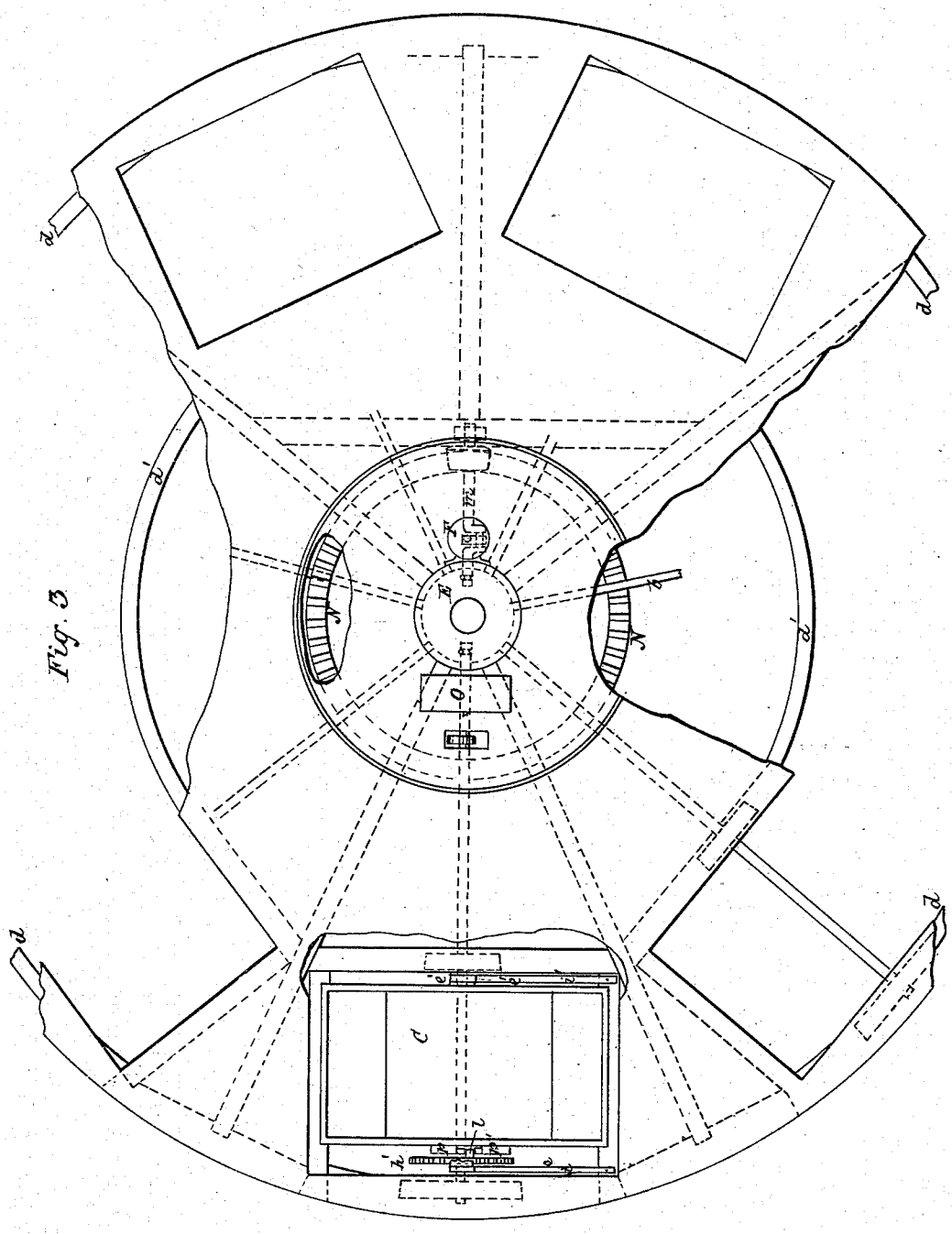

Fig. 3

Witnesses.
Chas. Ratthig.
E. Wolff.

Inventor.
H. J. F. Schulze

UNITED STATES PATENT OFFICE.

HANS J. F. SCHULZE, OF NEW YORK, N. Y.

ROUNDABOUT.

SPECIFICATION forming part of Letters Patent No. 274,228, dated March 20, 1883.

Application filed January 16, 1883. (No model.)

To all whom it may concern:

Be it known that I, H. J. F. SCHULZE, a subject of the King of Prussia, and a resident of New York city, in the county of New York and State of New York, have invented a certain new and useful Roundabout, of which the following is a specification.

The object of my invention is to provide an amusing and entertaining roundabout or carrousel, with carriages or chairs, which have a forward and rocking motion, made to imitate those of a ship at sea, and the whole to be decorated with sea-serpents, mermaids, and other marine objects, and to be given as much as possible the appearance of a scene on the ocean.

Of the drawings, Figure 1 is a vertical sectional view of the whole, showing the general arrangement of the carriages, ornaments, and driving or motive power and their connections. Fig. 2 is a detail view of one of the carriages, partially in section, and showing a side view of the rocking mechanism of the same. Fig. 3 is a plan view of the rotating platform, with the roof of the engine and portions of the platform broken away to exhibit the mechanism below.

Like letters refer to like parts in all cases.

The apparatus consists of a rotating platform, A, mounted, by means of the supports b', upon the shafts b of the conical wheels c c', which are arranged to travel upon the circular rails or tramways d d'. The platform A is also supported and guided in the center by the spindle or shaft a, which revolves in the step g'. The platform A may be made of wood, and the shafting, wheels, and other small parts may be of iron or other material, as may be deemed most suitable.

The motive or driving power is supplied by the boiler E and engine F, which, together with the organ O or other musical instruments, are placed as near as may be on the center of the platform A, that their weight may be taken directly by the spindle a and step or foundation g'. The engine F, by means of a pitman and crank, m^2, gives motion to the shaft m, which has secured upon it a small bevel or cog wheel, n, which engages with a large crown or bevel cogged annulus, N. The annulus N being firmly secured to a stationary bed or foundation, the action of the engine F causing the wheel n to revolve, the whole platform is thereby caused to rotate upon its vertical axis a.

Upon the spindle a is secured a disk, g, with suitable bearings or steps for the ends of the shafts b and m, and in which these shafts b are secured by grooves and pins or rollers that permit of their free rotation, but prevent their being drawn out of the disk g. One end of the shaft m is carried in the bracket m', secured to the platform A. The shafts b are made as many in number as the carriages and other moving objects desired, according to the size determined upon for the whole. These shafts b are placed radially under the platform A, and upon their outer portion is hung the carriage C.

The method of hanging the carriage C is as follows: Two upright supports, e e', are forked at the bottom, so as to straddle the shafts b. Projections of the same, i i', are loosely fastened to the platform, so that the supports e e' may rise and fall upon the shaft b, but not otherwise change their position. At the tops of the supports e e' are pins f f'. One of these supports is placed upon each side of the body of the carriage C, and the carriage C is suspended from the pins f f', so as to swing upon the same.

To give the carriage C the proper swinging motion, a small cog-wheel, h, is secured upon the shaft b. This gives motion to a larger cog-wheel, h', which revolves upon an axis, r, fixed to e or e'. The cog-wheel h' carries an eccentric pin, l, which, revolving between two cam-pieces, p p', fixed upon the side of C, gives the same the desired movement. To relieve the motion of all shock and make it more natural in its effect, the cam-pieces p p' are provided with cushions or springs k, upon which the pin l impinges as it revolves. The upper surface of the platform is made to resemble the waves of the sea and the various marine objects, either natural or mythological, so arranged as to conceal the engine and render the delusion as complete as possible.

Having thus described the nature of my invention, what I claim, and desire to secure by Letters Patent, is—

1. In a roundabout, the arrangement of the engine F, having upon its shaft a cog-wheel, n, combined with the stationary or fixed annulus

or cog-wheel N, the whole being constructed and arranged as and for the purposes herein shown and set forth.

2. In a roundabout, the combination of the rotating platform A with the spindle *a*, disk *g*, and radial shafts *b*, wheels *c c'*, and carriages C, as herein described.

3. The combination of the carriage C, pins *f f'*, supports *e e'*, shaft *b*, and wheels *c c'*, as and for the purposes herein shown and set forth.

4. In a roundabout, the combination of the carriage C, having cam-pieces *p p'* and cushions or springs *k*, with the eccentric pin *l*, and cog-wheels *h h'*, with their shafts, when constructed and operated as and for the purposes herein shown and described.

Signed at New York, in the county of New York and State of New York, this 5th day of January, A. D. 1883.

HANS J. F. SCHULZE.

Witnesses:

CHAS. RAETTIG,

H. S. MITCHELL.