

(No Model.)

2 Sheets—Sheet 1.

C. R. HANSON.
ROUNDAABOUT.

No. 439,003.

Patented Oct. 21, 1890.

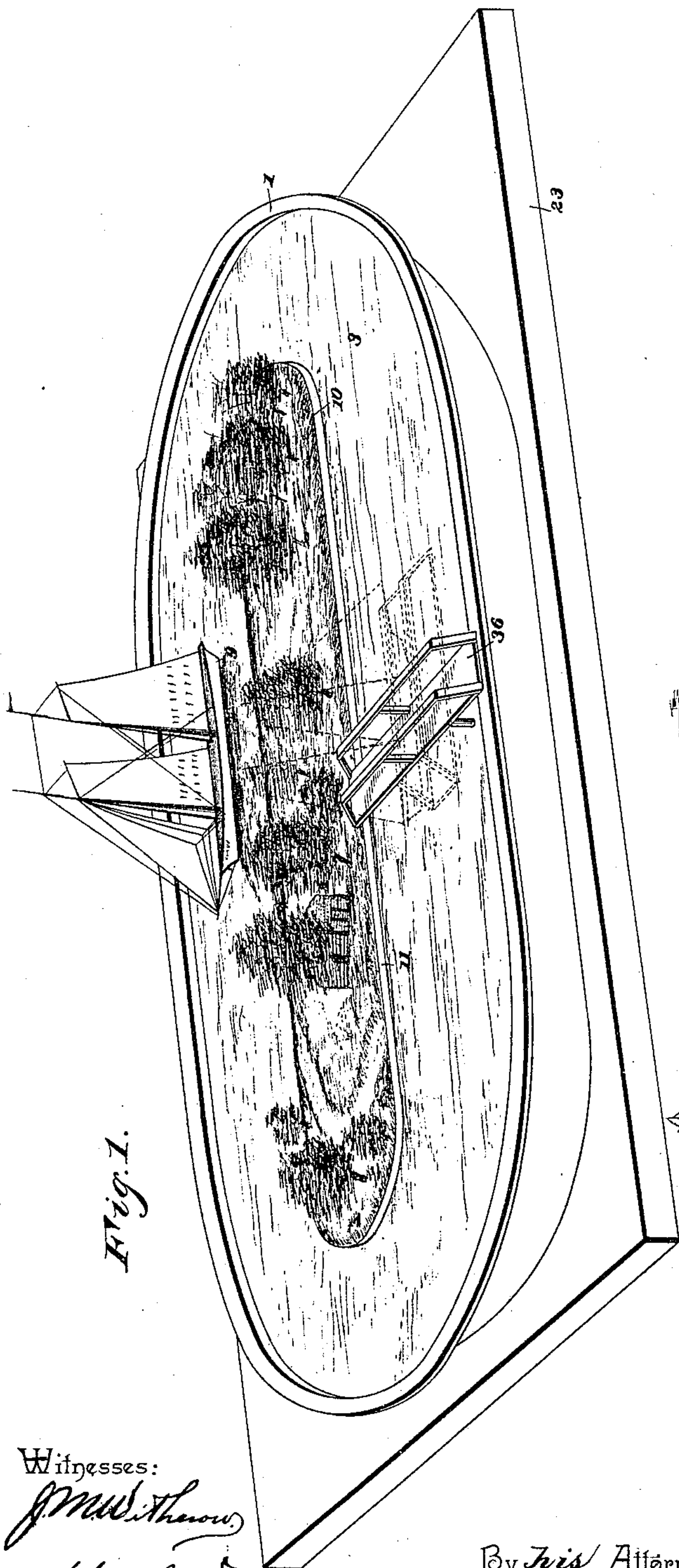


Fig. 1.

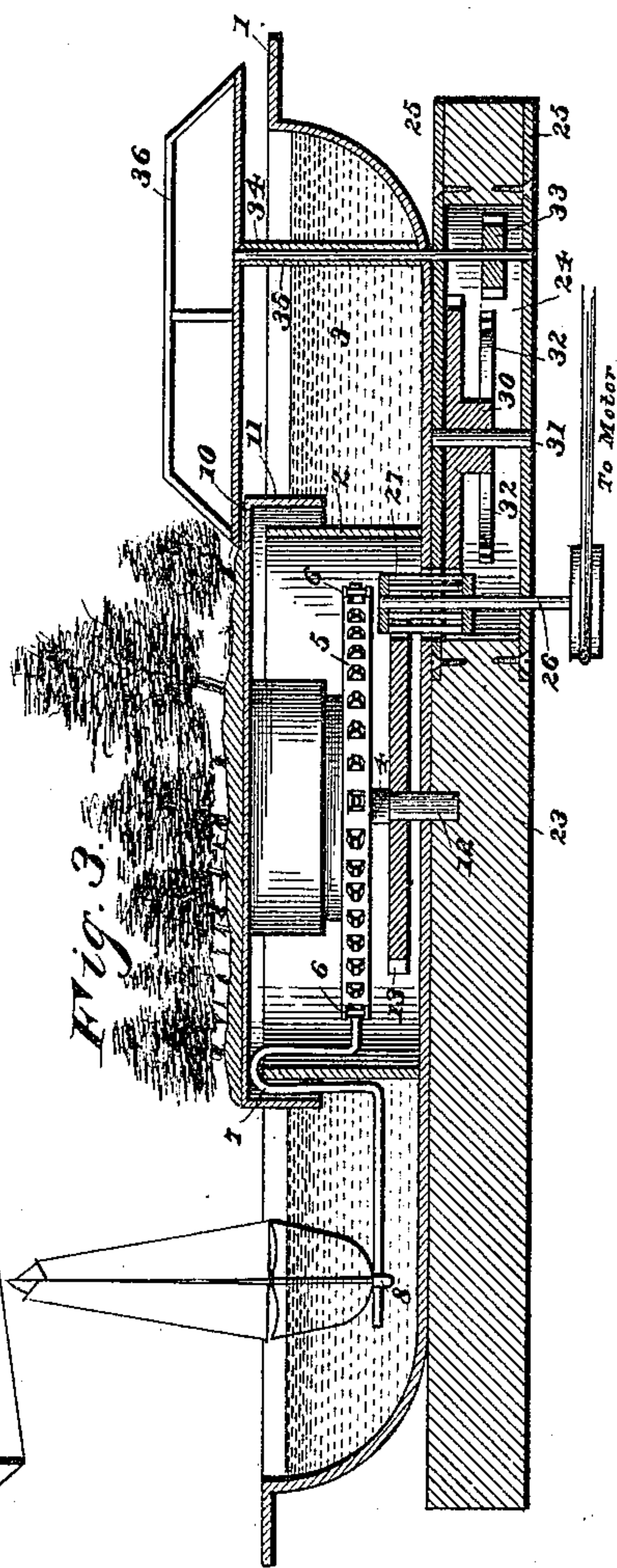


Fig. 3.

Witnesses:
J. M. Whitlow

W. S. Duwall

By *his* Attorneys,

C. A. Snow & Co.

Inventor
Christian R. Hanson

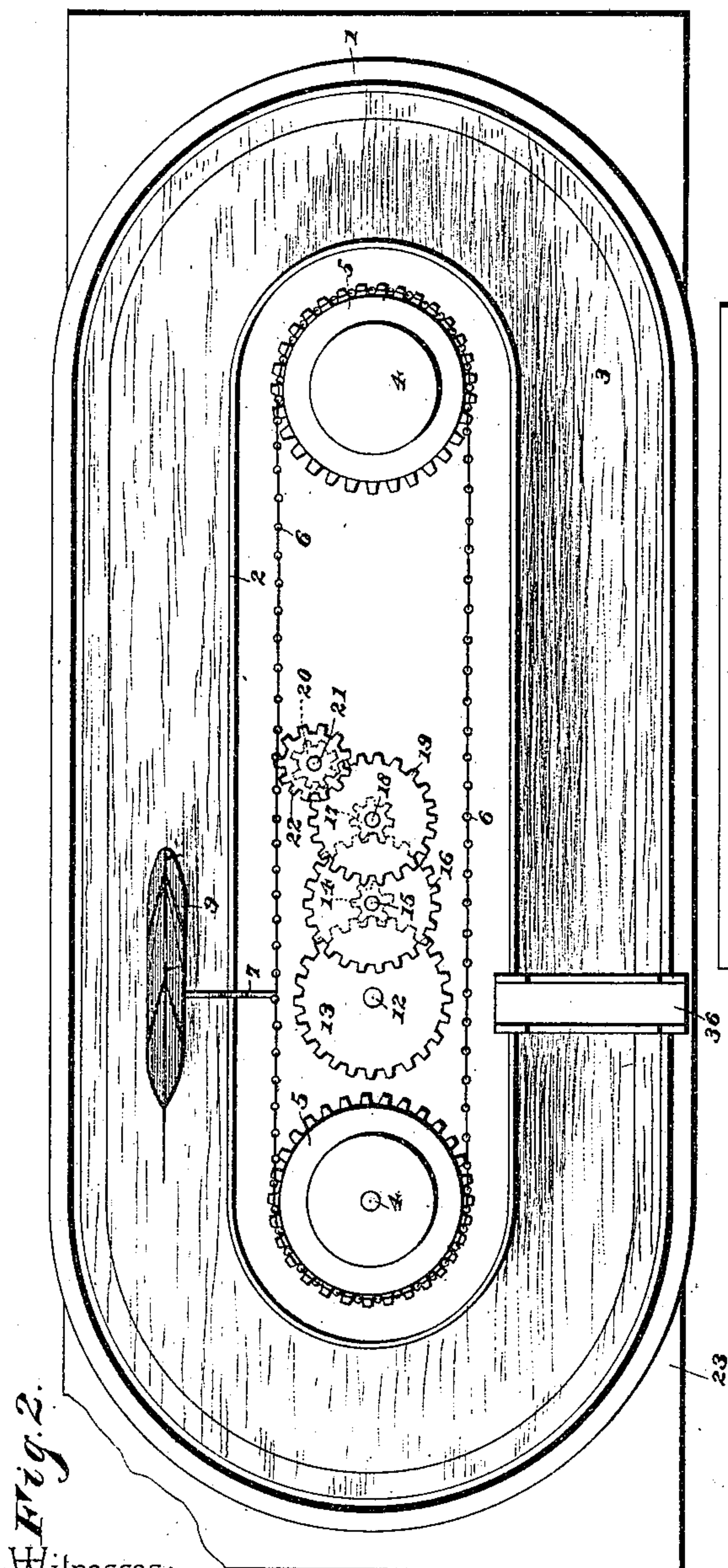
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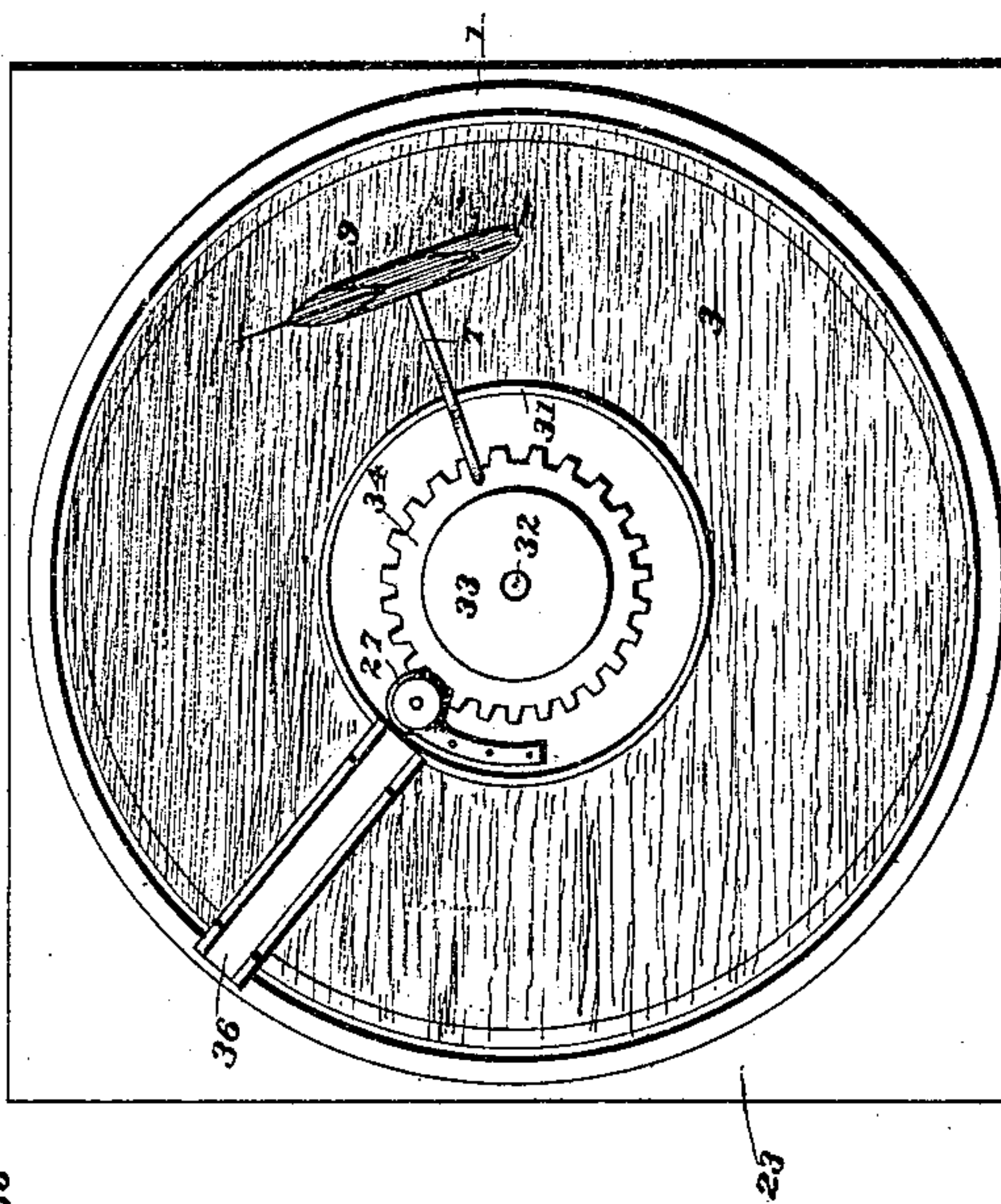
Witnesses:

J. M. Sherry

W. S. Duval

By his Attorneys.

C. A. Snow & Co.



Inventor
Christian R. Hanson

UNITED STATES PATENT OFFICE.

CHRISTIAN R. HANSON, OF SAVANNA, ILLINOIS.

ROUNDABOUT.

SPECIFICATION forming part of Letters Patent No. 439,003, dated October 21, 1890.

Application filed April 19, 1890. Serial No. 348,610. (No model.)

To all whom it may concern:

Be it known that I, CHRISTIAN R. HANSON, a citizen of the United States, residing at Savanna, in the county of Carroll and State of Illinois, have invented a new and useful Fish-Pond Toy, of which the following is a specification.

This invention has relation to shows for windows, or, as will hereinafter appear, may be employed as a toy.

The objects of the invention are to provide a miniature body of water and one of a series of floating objects, and means for operating or moving the objects mechanically thereover, said objects being so arranged and connected as to cause them to coact at proper intervals.

Various arrangements of the objects may be readily suggested, and I do not limit my invention in this respect.

Referring to the drawings, Figure 1 is a perspective of a show constructed in accordance with my invention. Fig. 2 is a plan view, the mechanism being shown. Fig. 3 is a transverse section. Fig. 4 is a modification in plan.

Like numerals of reference indicate like parts in all the figures of the drawings.

1 represents a basin, preferably formed of sheet metal and decorated with artificial verdure, &c., to imitate nature. Within the pan there is centrally located an oblong flange or cup 2, the depth of which equals that of the basin, and between the rim of the basin and the cup or flange there is arranged a body of water 3. Stud 4 is located at each end of the cup, and upon each of the studs there is mounted a loose sprocket-pulley 5, said pulleys being connected by an endless chain 6. From one or more points upon the endless chain there project a wire arm or arms 7, the same being of such form as to take over the wall of the cup and depend upon the outer side thereof to near the bottom of the basin, and then projected laterally and adapted to be inserted in an eye 8, secured to the bottom of a floating object 9, in this instance a ship.

It is evident that numerous arms 7 may be employed and upon each secured a different object, and that various objects may be substituted for the ship shown. For instance, a flock of geese, ducks, or other aquatic birds, miniature whales, and the like may be substituted.

Covering the cup 2 is a cover 10, provided with an exterior surrounding flange 11, somewhat larger than the cup, and therefore forming between the two a space through which the arm or arms 7 may project. The top of the cap or cover 10 is decorated or constructed in imitation of an island, and may be provided with trees and other shrubbery, as will be apparent.

12 represents the main shaft, upon which there is mounted the toothed gear 13, meshing with a small pinion 14, mounted upon a shaft 15, which also carries a large gear 16, which in turn meshes with a small pinion 17, mounted upon a shaft 18, carrying a large gear 19, which latter meshes with a small pinion 20, mounted on a shaft 21, provided with a sprocket 22, which sprocket meshes with and drives the chain 6. In a base 23, upon which the basin is mounted, there is formed a recess 24, across which is a pair of horizontal bearing-plates 25. A power-shaft 26 is journaled in the bars and is provided with a small pinion 27, which meshes with the gear 13, mounted upon the main shaft 12. The opposite side of the pinion meshes with a gear 30, mounted upon a shaft 31, which below the gear is provided with a series of radiating spokes or arms 32, provided at their extremities with teeth adapted to intermittingly engage and give a partial rotation to a small pinion 33, mounted on a shaft 34, extending up through the bottom of the basin and inclosed by a tube 35. Above the tube the shaft has fixed thereto a miniature bridge 36, of a length adapting it to span the body of water between the rim of the pan or mainland and the cap or island.

By the arrangement described and the proper proportioning of the gears it will be apparent that at the time the boat approaches the bridge the same will be given a quarter-turn and remain in that position until the boat has passed, by which time the second arm will have come into contact with the gear or pinion of the bridge-shaft and the shaft will be given a second quarter-turn, which will bring it into position for spanning a body of water.

It is apparent that by the above construction various articles may be mounted in the

basin and so moved and timed as to pass each other and perform various maneuvers quite naturally.

Referring to Fig. 4, I have illustrated a modified construction of my invention; and the same consists in forming the basin of circular shape and omitting the endless chain, loose pulleys, and the train of gearing and substituting therefor a cylindrical cup 31, in the center of which is arranged a stud or spindle 32, having a fixed spool 33, loosely encircled by a ring-gear 34. From the ring-gear project the arms 7.

The operation of the device thus constructed is the same as that previously described, and no detailed description thereof is deemed necessary.

Having thus described my invention, what I claim is—

1. In a show, the combination, with a water-receiving basin provided with a central cup or case and a cover mounted upon the cup or case, of an arm extending from within the cup, depending outside of the same below the water-line and adapted to be connected to objects floating upon the water, a cover for the cup or case, said cover being provided with a depending flange loosely inclosing the wall of the cup or case and combining therewith to form a continuous space for the arm, and mechanism located in the cup for revolving said arm, substantially as specified.

2. In a show, the combination, with a basin provided with a central cup or case shaped to simulate an island, of pulleys located at opposite ends of the cup, an endless belt mounted over the pulleys, an arm projecting from the belt below the water-line and adapted to receive objects floating upon the water, and mechanism mounted in the case and adapted to operate the pulleys and chain, substantially as specified.

3. In a show, the combination, with a basin having a central cup or case, of pulleys located at the opposite ends of the case, a sprocket-chain mounted on the pulleys, a sprocket-wheel engaging the chain, a train of gearing for operating the wheel and mounted in the casing, a motor connected with the train, and an arm projected from the chain, extending below the water-line and adapted to be connected with floating objects, substantially as specified.

4. In a show, a basin provided with a central case and a cover mounted thereover and having a flange depending therefrom larger than and receiving the case and forming an intermediate space, in combination with pulleys located at the opposite ends of the case, an endless chain mounted over the pulleys, an arm projecting from the chain below the water-line, depending between the flange of the cover and the case and adapted to be connected with a floating object, and means for moving the chain, substantially as specified.

5. In a show, the combination, with the basin, a central case shaped to simulate an island, revolving mechanism mounted in the case and carrying arms extending below the water-line and adapted for the reception of floating objects, an object mounted pivotally in the basin and connected with the revolving mechanism, which mechanism is adapted and so timed as to variously operate these objects in relation to each other, whereby the pivoted object may be operated to permit the passing of the revolving objects, of the motor connected with the mechanism in the case and adapted to operate the same, substantially as specified.

6. In a show, the combination, with the basin, a casing shaped to simulate an island, and mechanism located therein and provided with object-carrying arms arranged below the water-line and adapted to be moved by said mechanism, of a motor connected with the said revolving mechanism and adapted to actuate the same, a shaft geared to the main shaft of the revolving mechanism and provided with a series of toothed arms, a vertical shaft passing through the bottom of the casing and inclosed by a tube and provided at its upper end by a bridge adapted to reach from the rim of the basin to the case, and a small pinion mounted on said shaft and adapted to be actuated at intervals by the toothed arms, substantially as specified.

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

CHRISTIAN R. HANSON.

Witnesses:

EDWARD HEIDT,
CHARLES K. MILES.