

Aug. 18, 1953

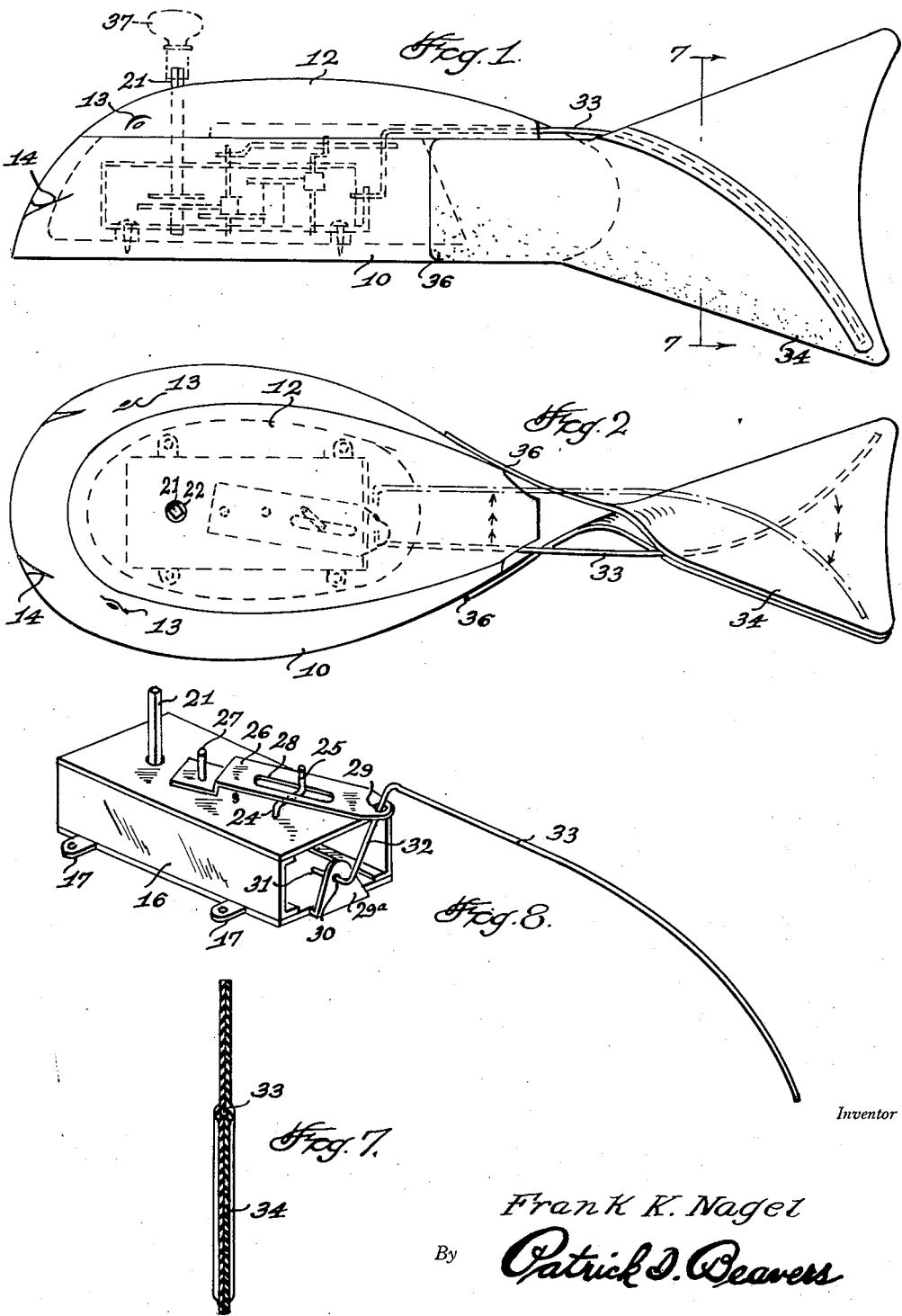
F. K. NAGEL

2,648,935

MECHANICAL TOY WHALE

Filed July 28, 1950

2 Sheets-Sheet 1



Aug. 18, 1953

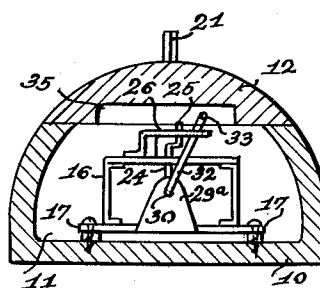
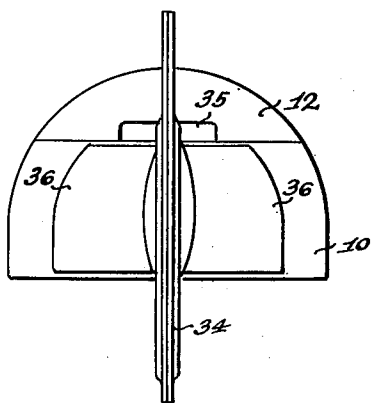
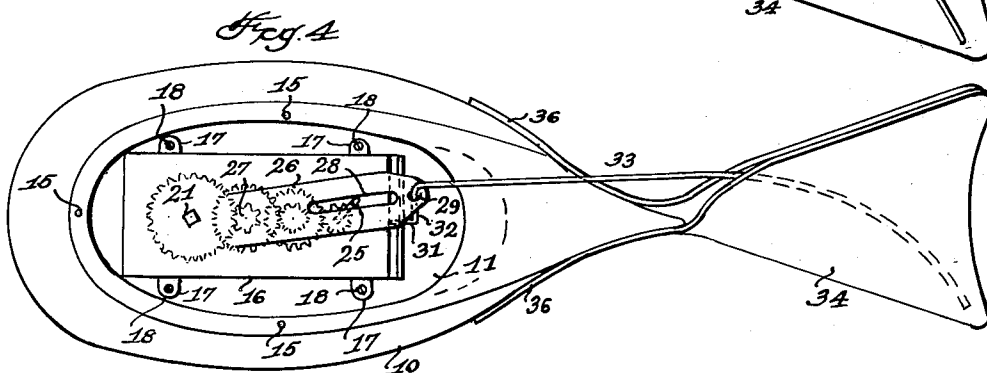
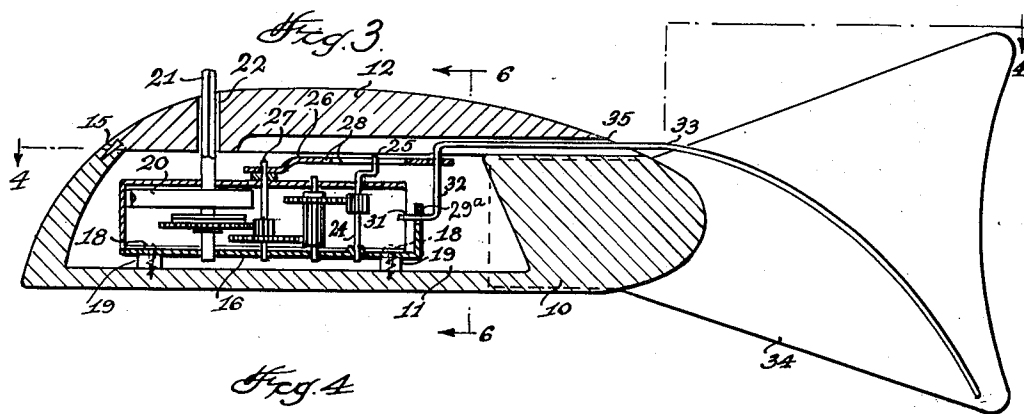
F. K. NAGEL

2,648,935

MECHANICAL TOY WHALE

Filed July 28, 1950

2 Sheets-Sheet 2



Inventor

Frank K. Nagel

By

Patrick J. Deavers

Attorney

UNITED STATES PATENT OFFICE

2,648,935

MECHANICAL TOY WHALE

Frank K. Nagel, Bayville, N. Y.

Application July 28, 1950, Serial No. 176,489

1 Claim. (Cl. 46—92)

1

The present invention relates to a mechanical toy whale and it consists in the combinations, constructions and arrangements of parts herein described and claimed.

Generally there is provided a toy whale having a hollow body which may be formed of wood, plastic material or the like and which is provided with a cover, the body and cover together resembling the body and head of a whale. To the rear end of the body there is affixed by cementing or other suitable means a tail formed of thin leather or other flexible material. Within the body there is mounted a clockwork motor of conventional character which operates a rocker arm which extends rearwardly through a passage in the underside of the cover and thence downwardly into the tail wherein it is embedded. When the motor is wound and the device placed in water, a sculling action is imparted to the tail to thereby move the whale through the water in a natural manner.

It is accordingly an object of the invention to provide a device of the character set forth which is simple in construction, inexpensive to manufacture and yet effective and efficient in use.

Another object of the invention is to provide a toy whale having novel means for propelling the same through water.

Another object of the invention is to provide, in a device of the character set forth, a novel drive means for a tail forming a part of the invention.

Other and further objects of the invention will become apparent from a reading of the following specification taken in conjunction with the drawings, in which:

Figure 1 is a side elevational view of an embodiment of the invention,

Figure 2 is a plan view thereof,

Figure 3 is a vertical sectional view, partly in elevation, of the device shown in Figures 1 and 2,

Figure 4 is a view similar to Figure 2 but with the cover forming a part of the invention removed therefrom,

Figure 5 is a rear elevational view of the device,

Figure 6 is a sectional view taken along line 6—6 of Figure 3,

Figure 7 is a sectional view taken along line 7—7 of Figure 1, and

Figure 8 is a perspective view of a motor and rocker arm forming a part of the invention.

Referring more particularly to the drawings, there is shown therein a mechanical toy whale having a body 10 formed of wood or the like and

2

having a hollow portion 11 therein. A cover 12 is removably mounted upon the body and the body and cover are so shaped as to present a continuous surface and to resemble the body and head of a whale. Eyes 13 and mouth 14 may be painted or otherwise depicted upon the forward end of the body 10 to heighten such appearance. To assist in maintaining the cover 12 in proper position upon the body 10, the body is provided with a series of dowels 15 which extend upwardly from its upper side and which are receivable in openings formed in the underside of the cover 12.

A clockwork motor of conventional character is mounted within a casing 16 which is provided with outwardly extending feet 17 at either side thereof at its lower end and screws 18 extend through such feet 17 and thence through spacer members 19 and into the bottom of the hollow portion 11 of the body to maintain the casing rigidly therein.

The motor is provided with a spring 20 and a winding shaft 21 which extends upwardly through an opening 22 provided in the cover 12.

The ultimate shaft 24 of the motor extends through the top of the casing 16 and terminates in a crank 25.

An actuating arm 26 is revolvably mounted at its forward end upon the upwardly projecting portion of a shaft 27 of the motor and is provided with a centrally disposed longitudinal slot 28 extending through the larger portion of the rear half thereof. A relatively small opening 29 is provided in the arm 26 immediately adjacent the rear extremity of the arm 26 which extends slightly rearwardly over the rear end of the casing 16.

The crank 25 extends into the slot 28. An ear 29a extends centrally upwardly from the rear of the bottom of the casing and is provided with an opening 30.

A longitudinally extending pin 31 is revolvably mounted in the opening 30 and has integrally formed therewith an upwardly extending oscillating arm 32 which extends through the opening 29 and which has formed integrally therewith a rearwardly and downwardly extending rocker arm 33 which is embedded in the folds of a tail 34 formed of leather, rubber or other flexible material and preferably waterproof material.

A passageway 35 is formed longitudinally in the rear underside of the cover 12 and accommodates the rocker arm 33 and is of such width as to allow the movements imparted to such arm by the motor. The forward portions of the tail 34

3

are cemented or otherwise affixed to opposite sides of the rear end of the body 10, as indicated at 36 and a key 37 is provided for winding the motor and is removably connectible with the shaft 21 in conventional manner.

In operation it will be apparent that the key 37 may be engaged upon the shaft 21 and the motor then wound therewith in conventional manner and that the toy may then be placed in water whereupon the oscillatory motion of the arm 32 will cause a sculling motion to be imparted to the arm 33 and its attached tail 34 to thus propel the toy through the water in a lifelike manner.

While but one form of the invention has been shown and described herein, it will be readily apparent to those skilled in the art that many minor modifications may be made without departing from the spirit of the invention or the scope of the appended claim.

What is claimed is:

A device of the character described comprising a hollow body, a cover removably mounted upon the body, a tail formed of flexible material and affixed to the rear of said body, a motor

4

mounted within the body, a housing for said motor, a rocker arm embedded within the tail, and means interconnecting said rocker arm and motor whereby a sculling motion is imparted to said tail, said means including a lever having a slot formed in the rear portion thereof and pivoted at its forward end to said housing, a shaft revoluble by said motor, a crank formed in said shaft and extending through said slot, said lever having an opening adjacent the free end thereof, and an oscillating arm pivoted to said housing and extending through said opening, and having integral connection with said rocker arm, and said rocker arm extending rearwardly and downwardly in said tail.

FRANK K. NAGEL.

References Cited in the file of this patent
UNITED STATES PATENTS

20 Number	Name	Date
1,661,758	King	Mar. 6, 1928
1,928,418	Garland	Sept. 26, 1933
2,003,193	Hirose	May 28, 1935
2,060,619	Jacobson	Nov. 10, 1936

25