

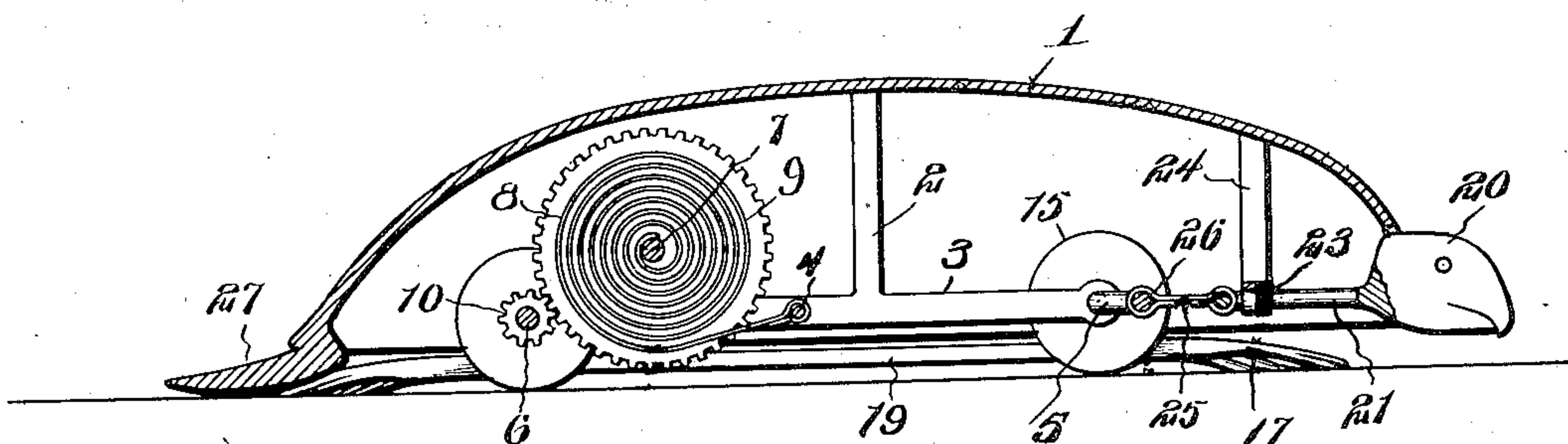
No. 862,015.

PATENTED JULY 30, 1907.

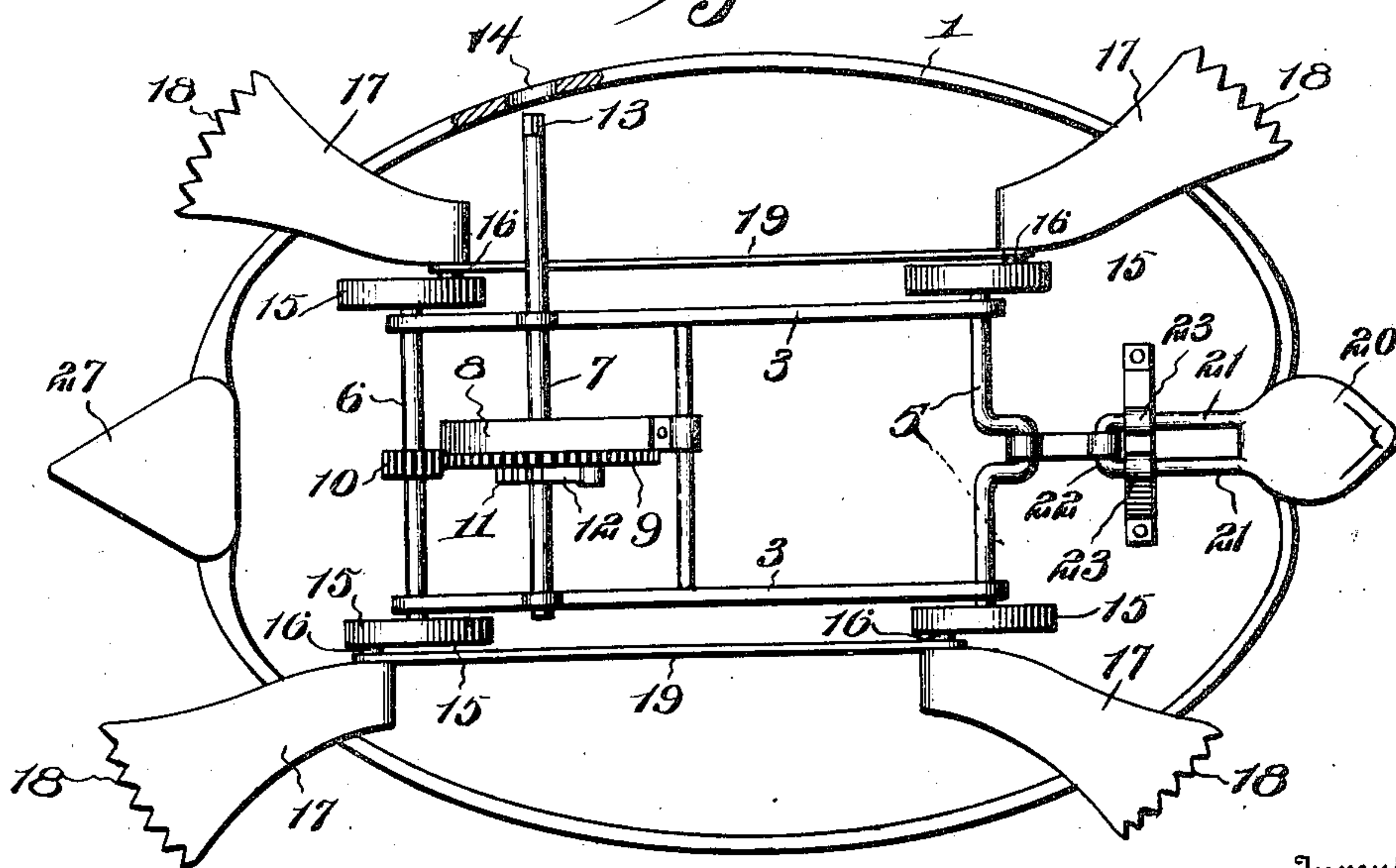
F. M. PITTMAN.  
TOY.

APPLICATION FILED APR. 6, 1907.

*Fig. 1.*



*Fig. 2.*



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Witnesses

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# UNITED STATES PATENT OFFICE.

FRANCIS M. PITTMAN, OF LOGANSFORT, INDIANA.

## TOY.

No. 862,015.

Specification of Letters Patent.

Patented July 30, 1907.

Application filed April 6, 1907. Serial No. 366,798.

To all whom it may concern:

Be it known that I, FRANCIS M. PITTMAN, a citizen of the United States of America, residing at Logansport, in the county of Cass and State of Indiana, have invented new and useful Improvements in Toys, of which the following is a specification.

This invention relates to mechanically operated toys, and one of the principal objects of the same is to simplify the construction of toys of this character and to impart a life-like movement to the limbs of the figure which the toy represents.

Another object of the invention is to provide a mechanically operated turtle in which the limbs and head will have life-like motions, and in which the toy will move from place to place.

These and other objects may be attained by means of the construction illustrated in the accompanying drawing, in which:

Figure 1 is a longitudinal sectional view of a toy made in accordance with my invention. Fig. 2 is an under-side plan view of the same.

Referring to the drawing for a more particular description of my invention, the numeral 1 represents a shell of a turtle which may be made of metal, papier-mâché or other suitable material, and supported underneath the shell by means of brackets 2, is a frame consisting of side bars 3 provided with a cross bar 4. Journaled in the forward ends of the side bars 3 is a crank shaft 5, and journaled in the rear ends of said bars 3 is an axle 6. A shaft 7 is journaled in the side bars 3 and secured to said shaft is one end of a spring 8, the other end of which is connected to the cross bar 4. Fixed upon the shaft 7 is a large crown gear wheel 9 which meshes with a pinion 10 on the axle 6. A ratchet wheel 11 is secured to the shaft 7 at the side of the gear wheel 9, and a pawl carried by the gear wheel 9 engages the ratchet 11. On the end of shaft 7 a squared portion 13 is provided for the engagement of a key adapted to be passed through an opening 14 in the frame portion of the toy for winding the spring 8. Connected to the outer ends of the shaft 6 and the crank shaft 5 are wheels 15, said wheels each being provided with a crank pin 16 on the outer face thereof and connected to the outer end of said crank pins are the legs 17 of the turtle provided with serrated outer ends 18, which may simulate the toes or claws of the turtle legs. Connecting bars 19 connect the crank pins 16 on the opposite sides of the side bars 3.

The head 20 of the turtle is provided with parallel arms 21 connected by a cross bar 22. The arms 21 are mounted to slide in guides 23 formed on a bracket 24 supported underneath the shell portion 1. A link 25 is connected to the cross bar 22 of the arms 21, said link being also connected to the crank portion 26 of the

crank shaft 5. The tail 27 is connected to the shell 1 and is provided with a broad base, as shown.

The operation of my invention may be briefly described as follows: The spring 8 is wound by means of a key which engages the squared portion 13 of the shaft 7, the pawl 12 engaging the ratchet wheel 11 during the winding operation. When the pawl 12 is released from the ratchet, and the toy is placed upon the floor, the legs 17 which are connected to the crank pins 16, move alternately forward and back upon opposite sides of the toy, owing to the disposition of the crank pins 16 upon the opposite sides of the side bars 3, the legs upon one side moving upward out of contact with the floor, while the others are moving backward and propelling the toy, in the manner similar to the movements of the legs of a live turtle. At each revolution of the crank shaft 5, the head 20 of the turtle is moved inward and outward by means of the link connection and the sliding arms 21, thus giving a life-like action to the figure.

From the foregoing it will be obvious that a toy made in accordance with my invention is of simple construction; that, owing to the disposition of the crank pins on the wheels on opposite sides of the frame, the feet will operate alternately and the head will be drawn in and projected to simulate the movements of a live turtle.

Having thus described the invention, what I claim is:

1. In a mechanical toy, the combination of a frame, an axle mounted in the frame, a crank shaft mounted in the frame, crank wheels mounted on the axle and crank shaft, crank pins projecting outward from said wheels, legs secured to said crank pins, connecting rods connecting said crank pins, a sliding head connected to said crank shaft, and means for imparting motion to said axle and crank shaft.

2. In a mechanical toy, the combination of a shell, a frame mounted in the shell, a crank shaft mounted in the frame, an axle mounted in the frame, crank wheels mounted on the axle and shaft, feet connected to the crank wheels, a head mounted to slide in guides, and connected to the crank of the shaft, spring operated mechanism for rotating the axle, and connecting rods connecting the wheels.

3. In a mechanical toy, the combination of a frame, an axle journaled in the frame, a crank shaft journaled in the frame, wheels connected to the axle and crank shaft, crank pins projecting from the wheels, said crank pins being disposed in diametrically opposite positions upon the wheels of each side of the frame, connecting rods connected to the crank pins, legs connected to the crank pins to move alternately forward and back upon the opposite sides, and a sliding head connected to the crank shaft, and means for rotating the axle.

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

FRANCIS M. PITTMAN.

Witnesses:

EZRA B. GRAVES,  
ALBERT H. SMITH.