R. GENOVESE.

TOY AEROPLANE.

APPLICATION FILED FEB. 19, 1919.

1,313,849.

Patented Aug. 19, 1919.

FIG. 1.

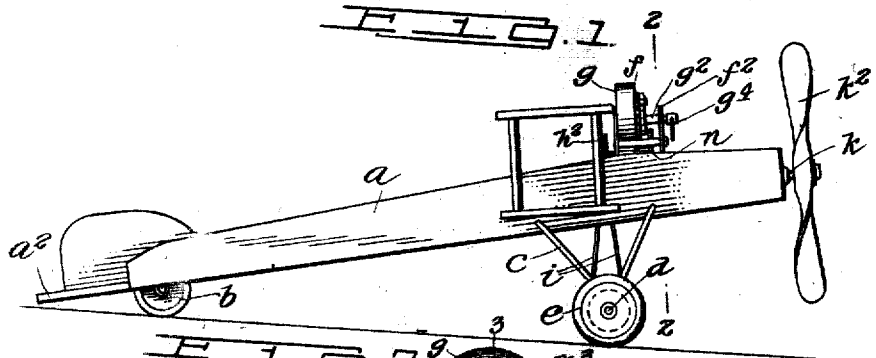


FIG. 2.

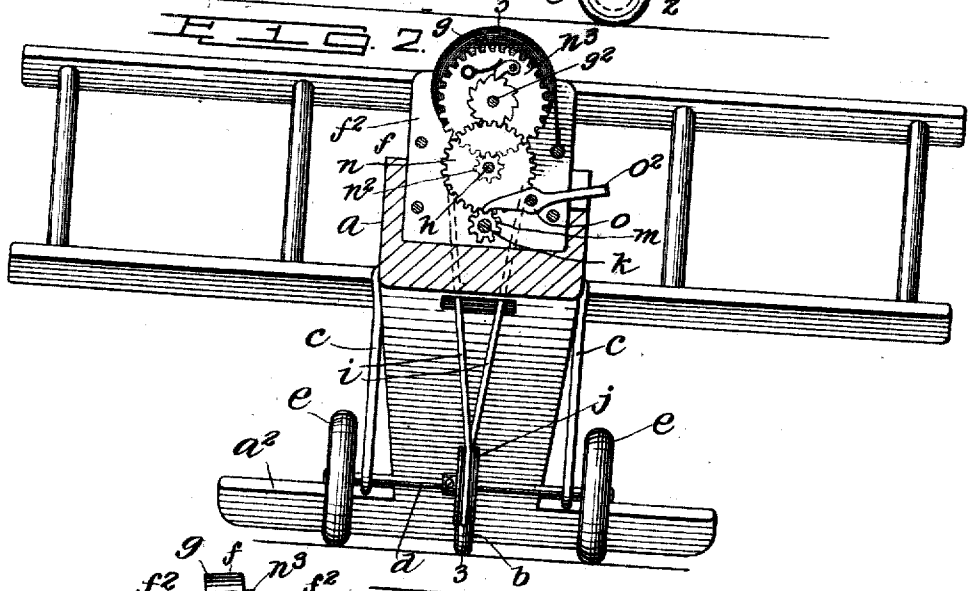
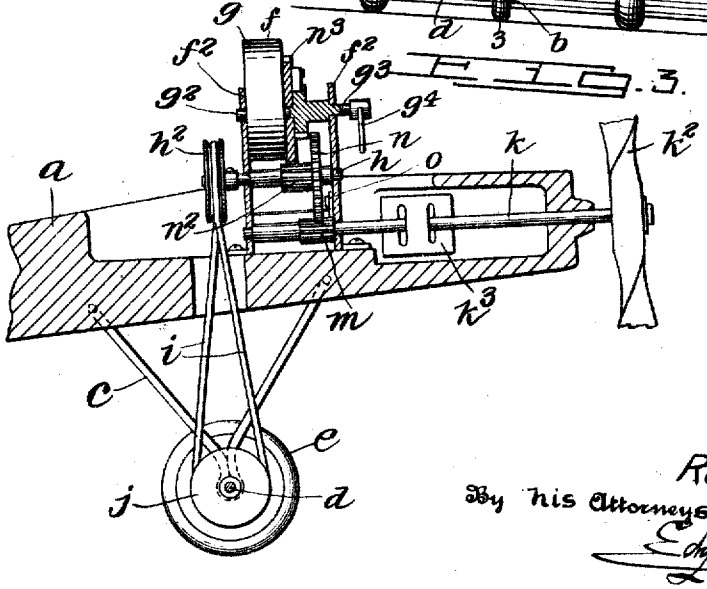


FIG. 3.



Inventor

Rosario Genovese,

By his Attorneys

Edgar Tate & Co.

UNITED STATES PATENT OFFICE.

ROSARIO GENOVESE, OF NEW YORK, N. Y., ASSIGNOR OF ONE-HALF TO MORRIS FARBER, OF NEW YORK, N. Y.

TOY AEROPLANE.

1,313,849. Specification of Letters Patent. Patented Aug. 19, 1919.

Application filed February 19, 1919. Serial No. 278,009.

To all whom it may concern:

Be it known that I, ROSARIO GENOVESE, a citizen of the United States, and residing at New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Toy Aeroplanes, of which the following is a specification, such as will enable those skilled in the art to which it appertains to make and use the same.

This invention relates to toy aeroplanes, and the object thereof is to provide an improved device of this class particularly adapted to operate on the floor, or on the ground; and a further object being to provide a device of the class specified which will be amusing and entertaining both to young and old.

The invention is fully disclosed in the following specification, of which the accompanying drawing forms a part, in which the separate parts of my improvement are designated by suitable reference characters in each of the views, and in which:—

Figure 1 is a side view of my improved toy device;

Fig. 2 a section on the line 2—2 of Fig. 1; and,

Fig. 3 a partial section on the line 3—3 of Fig. 2.

My improved toy device comprises a winged body portion a constructed to represent in form the body portion of an ordinary aeroplane and composed of any suitable material and provided with a backwardly directed tail member a^2 of the usual form, and beneath which is mounted an antifriction wheel b which is adapted to rest on the floor and remove the friction which would otherwise result if the tail member a^2 rested directly on the floor.

Under the front end part of the body portion a are hangers c in which are mounted an axle d provided with wheels e, and mounted in the said body portion over the hangers e is a spring power mechanism f mounted in a casing consisting of side plates f^2 in the top portion of which is mounted a spring g provided with a shaft g^2 having a forwardly directed handle member g^3 provided with a crank g^4 by which the spring g may be wound up.

Beneath the spring g is a shaft h which projects backwardly of the casing and is provided with a pulley h^2 over which is passed a drive belt i or similar device which is also passed around a central pulley j on the axle d.

A propeller shaft k is mounted in the front part of the body portion a and passes through the bottom of the power casing and is provided with an elongated pinion m, which meshes with a gear n on the shaft h and a brake pawl o is pivoted to one of the plates f^2 of the power casing and is adapted to operate in connection with the pinion m and is held out of engagement with said pinion by friction and the shaft h is provided with an elongated pinion n^2 which meshes with a gear n^3 on the shaft g^2 of the spring g.

The propeller shaft k is provided with a propeller k^2 and is also preferably provided with a governor device k^3 of any suitable construction, and the operation of the device will be readily understood from the foregoing description when taken in connection with the accompanying drawing and the following statement thereof.

In placing the device in operation, all that is necessary is to wind up the spring g, set the device on the floor and raise the nose of the brake pawl o out of engagement with the pinion m by means of the handle o^2 of said brake pawl. This will throw the power mechanism into operation and the wheels e will be rapidly turned and the device will travel rapidly over the floor in any direction in which it is turned. Instead of operating the device, as above described, it may be placed on the floor after operating the brake device o, and while I have shown and described details of construction by which my invention may be carried into effect, the invention is not limited to such device, and changes therein and modifications thereof may be made, within the scope of the appended claims, without departing from the

spirit of my invention or sacrificing its advantages.

Having fully described my invention, what I claim as new and desire to secure by Letters Patent, is:—

1. A toy aeroplane device comprising a body portion having front transverse planes and a rear transverse tail plane, hangers suspended from the front part of the body portion, an axle mounted in said hangers, wheels mounted on said axle, a spring power mechanism mounted in the body portion above said hangers and provided with a forwardly directed propeller shaft which is driven by said power mechanism, and another shaft operated by said power mechanism and in operative connection with said axle to rotate the wheels thereof to move the device over a surface.

2. A toy aeroplane device comprising a main elongated body portion, transverse front plane members secured to the body portion at a predetermined distance from the front end thereof and a transverse tail plane at the back of said body portion, a roller mounted in the rear end of the main body portion, hangers suspended from the opposite sides of the main body portion beneath the front transverse planes, a shaft mounted in said hangers and provided with wheels, the front end of the main body portion being recessed at the top thereof, a spring power mechanism mounted in the recessed portion of the body part, said spring power mechanism being provided with a forwardly directed propeller shaft and a rearwardly directed supplemental shaft, a propeller mounted on the front end portion of the propeller shaft, a pulley mounted on the rear end portion of the supplemental shaft, another pulley mounted centrally of said axle, and a belt passed around said pulleys whereby in the operation of said spring power mechanism said propeller and said wheels will be rotated to move the device over a surface.

3. A toy aeroplane device comprising a body portion made in the general form of an aeroplane, wheels suspended from the front end of the body portion, a spring power mechanism mounted in the front end of the body portion and provided with a forwardly directed propeller shaft and a backwardly directed supplemental shaft, means whereby said power mechanism will operate both of said shafts, a propeller mounted on the front end portion of the propeller shaft, a pulley mounted on the rear end portion of the supplemental shaft, another pulley mounted on the shaft of said wheels, and a belt passed around said pulleys whereby the rotation of said propeller shaft and supplemental shaft will rotate said propeller and said wheels to move the device over a surface.

4. A toy aeroplane device comprising a body portion made in the general form of an aeroplane, wheels suspended from the front end of the body portion, a spring power mechanism mounted in the front end of the body portion and provided with a forwardly directed propeller shaft and a backwardly directed supplemental shaft, means whereby said power mechanism will operate both of said shafts, a propeller mounted on the front end portion of the propeller shaft, a pulley mounted on the rear end portion of the supplemental shaft, another pulley mounted on the shaft of said wheels, a belt passed around said pulleys whereby the rotation of said propeller shaft and supplemental shaft will rotate said propeller and said wheels to move the device over a surface, and manually operated means on said spring power mechanism for controlling the operation thereof.

5. A toy aeroplane device comprising a body portion made in the general form of an aeroplane, wheels suspended from the front end of the body portion, a spring power mechanism mounted in the front end of the body portion and provided with a forwardly directed propeller shaft and a backwardly directed supplemental shaft, means whereby said power mechanism will operate both of said shafts, a propeller mounted on the front end portion of the propeller shaft, a pulley mounted on the rear end portion of the supplemental shaft, another pulley mounted on the shaft of said wheels, a belt passed around said pulleys whereby the rotation of said propeller shaft and supplemental shaft will rotate said propeller and said wheels to move the device over a surface, and a governor device mounted on the propeller shaft.

6. A mechanical toy device of the class described made in the form of an aeroplane and comprising a body portion recessed at the front end thereof, a spring power mechanism mounted in said recess and provided with a forwardly directed propeller shaft, a propeller mounted on the free end portion of said shaft, a backwardly directed supplemental shaft, means whereby said spring power mechanism will operate both of said shafts, and means operated by said supplemental shaft to move the toy device over a surface in conjunction with said propeller.

7. A mechanical toy device of the class described made in the form of an aeroplane and comprising a body portion recessed at the front end thereof, a spring power mechanism mounted in said recess and provided with a forwardly directed propeller shaft, a propeller mounted on the free end portion of said shaft, a backwardly directed supplemental shaft, means whereby said spring power mechanism will operate both of said shafts, means operated by said supplemental

shaft to move the toy device over a surface in conjunction with said propeller, and manually operated means for controlling the operation of said spring power mechanism.

In testimony that I claim the foregoing as my invention I have signed my name in presence of the subscribing witnesses this 17th day of February 1919.

ROSARIO GENOVESE.

Witnesses:
C. E. MULREANY,
H. E. THOMPSON.