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G. F. MYERS

2,128,261

FLYING MACHINE

Original Filed Jan. 9, 1933

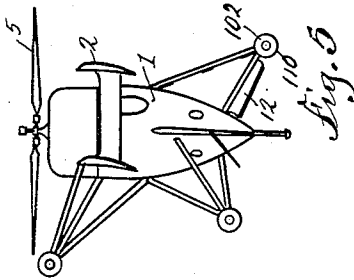


Fig. 5

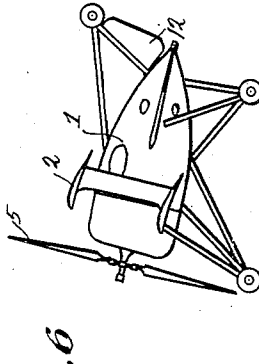


Fig. 6

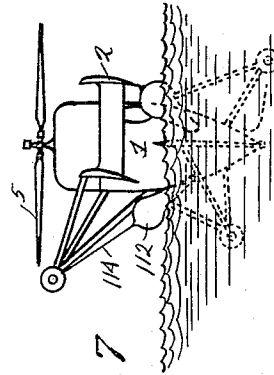


Fig. 7

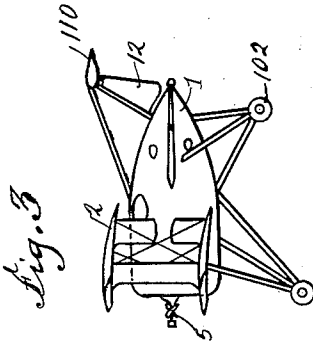


Fig. 3

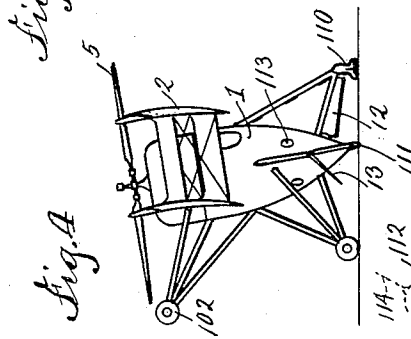


Fig. 4

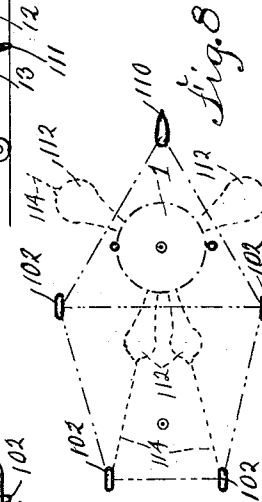


Fig. 8

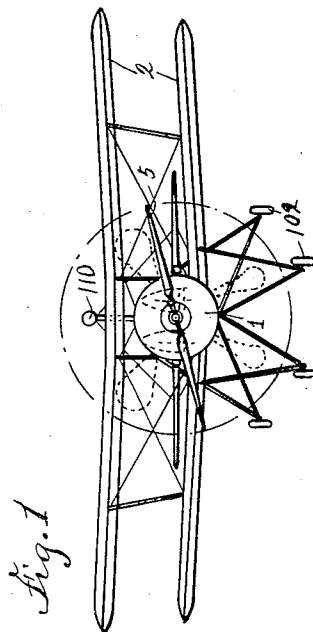


Fig. 1

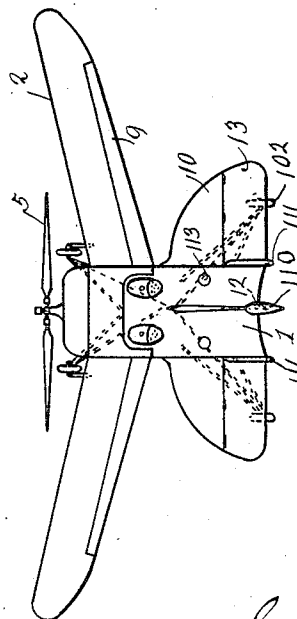


Fig. 2

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UNITED STATES PATENT OFFICE

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FLYING MACHINE

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Renewed July 27, 1936

15 Claims. (Cl. 244-107)

This invention relates to flying machines.

It has for its object to produce a flying machine of any description that can come down safely either on the land or on the water.

Another object is to provide flotation gear or water wings on a land flying machine.

Other objects and advantages of the present invention will be apparent from the following description, reference being had to the accompanying drawing wherein the preferred form of embodiment thereof is clearly shown and in which similar numerals of reference denote similar parts throughout the several views.

Fig. 1 is a front elevation, Fig. 2 is a plan view, and Fig. 3 is a side elevation of the invention; Fig. 4 shows the machine on the ground; Fig. 5 is the machine coming down vertically and about to land with its dash pot extended; Fig. 6 is the machine on the ground ready to run thereover; Fig. 7 is the machine resting in the water; Fig. 8 is a diagrammatic sketch showing the inflated water wings for resting on the water, from which position it can rise vertically.

The invention is constructed and operated substantially and preferably as follows:

Referring now to the drawing, 1 is the car or fuselage, 2 the wings, 5 the propeller with controllable pitch mechanism, 9 are the ailerons, 10 the stabilizing plane, 12 is the rudder, 13 the elevator, 102 the landing wheels, 110 the pneumatic top landing device or wheel, and 111 the rear dash pots.

Water wings 112 are kept in compartments with spring covers 113, and are connected by means as cords 114 to nearby structures by which the pull thereon can be regulated to keep the water wings in place.

As my invention is in many of its aspects generic, I do not limit myself to the particular construction shown or described, but also contemplate the employment of such equivalents as fairly fall within the scope of my claims.

Therefore it should be understood that I may make certain changes in the form, proportion, size and detail of the various structures shown, the number and position of certain elements used, as well as the character or the motive power employed, without departing from the spirit of the invention.

This application is in the nature of an improvement on or continuation of my application Serial No. 514,338 filed November 10, 1921, through Serial No. 639,458 filed October 25, 1932.

I claim:

1. The combination in a flying machine, of a

fuselage, a compartment in the fuselage, a balloon like emergency float secreted in the compartment having one end fastened adjacent thereto and one free end, and a cord attached to the free end of the float and fastened to a portion of the machine other than the fuselage.

2. The combination in a flying machine, of a fuselage, a landing gear, a compartment, a balloon like emergency float secreted in the compartment having one end fastened adjacent thereto and one free end, and a cord attached to the free end of the float and leading to the landing gear.

3. The combination in a flying machine, of a fuselage, a wing, a compartment, a balloon like emergency float secreted in the compartment having one end fastened adjacent thereto and one free end, and a cord attached to the free end of the float and leading to the wing.

4. An aircraft comprising supporting surfaces having portions displaced in a fore and aft direction from each other, a compartment disposed between said fore and aft portions, and a safety device comprising a plurality of inflatable and retractable emergency floats having one end thereof fastened to the main portion of the machine and the other end free, and having a cord attached to the free end of the float and leading to another portion of the machine other than the said main portion thereof and mounted on each side of the longitudinal center line of the craft and normally retained in said compartment in an inoperative position but capable of a quick release from said compartment.

5. The combination with a flying machine comprising a compartment, of a balloon-like safety device having one end thereof fastened to the main portion of the machine and the other end free, and having a cord attached to the free end of the float and leading to another portion of the machine other than the said main portion thereof and mounted on each side of the longitudinal center line of the machine, and means for secreting the flexible part of the device within said compartment away from contact with the dynamic air stream.

6. An aircraft comprising a car, means to sustain the craft in the air, a safety device comprising a plurality of inflatable and retractable emergency floats having one end thereof fastened to the main portion of the machine and the other end free, and having a cord attached to the free end of the float and leading to another portion of the machine other than the said main portion thereof and mounted one on each side of the

longitudinal center line of the craft secreted on the craft in such a manner as not to interfere with the sustaining means during normal operation, and means for automatically releasing and rendering operative said safety device.

7. An aircraft comprising a car, means for sustaining the craft in the air, a safety device comprising a plurality of inflatable and retractable emergency floats having one end thereof fastened to the main portion of the machine and the other end free, and having a cord attached to the free end of the float and leading to another portion of the machine other than the said main portion thereof and mounted one on each side of the longitudinal center line of the craft and secreted on said car in such a manner as not to interfere with the normal operation of the sustaining means, and devices for automatically releasing and rendering operative said safety device.

8. In a flying machine, the combination of sustaining means, a compartment, a balloon-like safety device comprising a plurality of inflatable and retractable emergency floats having one end thereof fastened to the main portion of the machine and the other end free, and having a cord attached to the free end of the float and leading to another portion of the machine other than the said main portion thereof and mounted one on each side of the longitudinal center line of the machine carried within the compartment and normally retained therein, means for releasing the balloon-like safety device at the will of the operator, and means for inflating the balloon-like safety device.

9. In a flying machine, the combination of means for sustentation, a safety device comprising a plurality of inflatable and retractable emergency floats having one end thereof fastened to the main portion of the machine and the other end free, and having a cord attached to the free end of the float and leading to another portion of the machine other than the said main portion thereof and mounted one on each side of the longitudinal center line of the machine and releasably secured to the machine, and means for automatically releasing the safety device.

10. The combination in a flying machine, of a fuselage, a compartment in the fuselage, a balloon like emergency float secreted in the compartment having one end fastened adjacent thereto and

one end free, a cord attached to the free end of the float and fastened to a portion of the machine other than the fuselage, a pressure tank, and means for inflating the float from the tank.

11. The combination in a flying machine, of a fuselage, a plurality of compartments in the fuselage, balloon like emergency floats secreted in the compartments each having one end fastened adjacent to the compartment and one end free, and a cord attached to the free end of each of the floats, one of the cords being fastened to the landing gear and one to the wing.

12. The combination in a flying machine, of a fuselage, a plurality of compartments in the fuselage, balloon like emergency floats secreted in the compartments each having one end fastened adjacent to the compartment and one end free, a cord attached to the free end of each of the floats, one of the cords being fastened to the landing gear and one to the wing, a pressure tank, and means for inflating each of the floats from the tank.

13. The combination in a flying machine, of a hollow body, a compartment in the body, an emergency float secreted in the compartment having one end fastened adjacent thereto and one end free, means attached to the free end of the float and fastened to a portion of the machine other than the body, a pressure tank, and means for inflating the float from the tank.

14. The combination in a flying machine of a hollow body, a compartment in the body, an emergency float secreted in the compartment having one end fastened adjacent thereto and one end free, flexible means attached to the free end of the float and fastened to a portion of the machine other than the body, a pressure tank, and means for inflating the float from the tank.

15. The combination in a flying machine, of a fuselage, a stabilizing plane and a fin mounted adjacent to the fuselage and to each other, a plurality of compartments mounted at the rear end of the fuselage, one compartment being mounted in each one of the rectangular corners made by a vertical plane passing through the fin and a horizontal plane passing through the stabilizing plane, emergency floats mounted in each of the compartments, and means for forcing the floats into action.

GEORGE FRANCIS MYERS.