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AIRSHIP.

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1,104,242. Patented July 21, 1914.

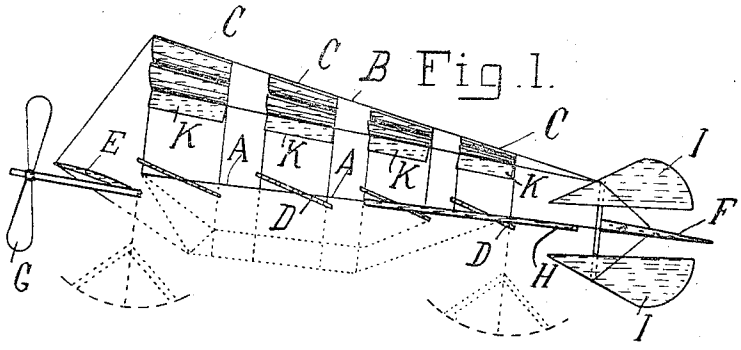


Fig. 1.

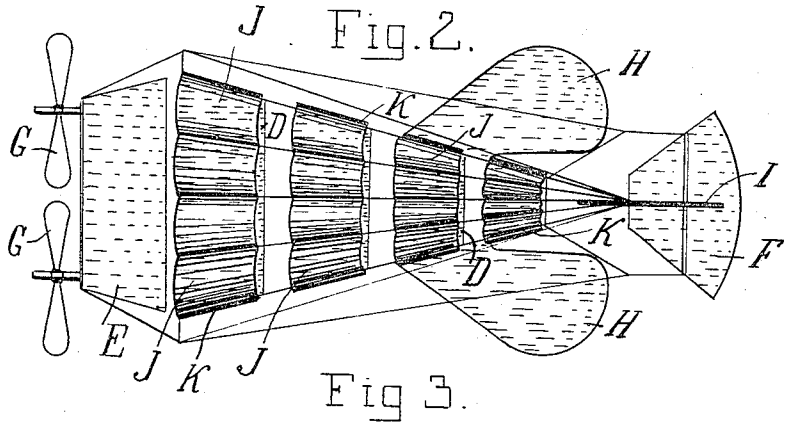


Fig. 2.

Fig 3.

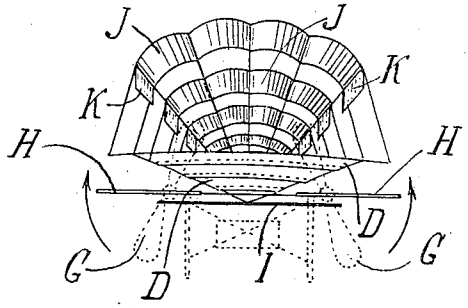
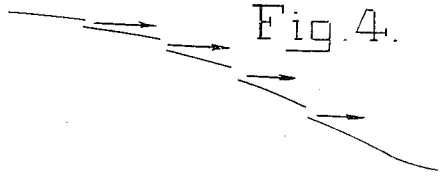


Fig. 4.



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UNITED STATES PATENT OFFICE.

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AIRSHIP.

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To all whom it may concern:

Be it known that we, JOSEPH BONNOT, ALFRED BELOT, JEAN VASSALLO, and ROSE EMERY, citizens of France, residing at Marseille, France, have invented new and useful Improvements in Airships, of which the following is a specification.

The object of this invention consists of an aeroplane the bearing surfaces of which are composed of arched planes.

The aeroplane is provided with laterally movable ailerons and flexible ailerons at the rear, and with two descent rudders, one of which is in front, behind the propellers, and the other of which is at the rear of the body.

In the accompanying drawings Figures 1 and 2 show, in cross section and in plan view, respectively, an aeroplane provided with two series of superposed arched planes; Fig. 3 represents the aeroplane seen from the front; Fig. 4 shows, diagrammatically, an arrangement of overlapping arched planes applied to a single series of planes.

In the construction shown in Figs. 1, 2 and 3, the upper part of the body assumes the shape of a semi-cone diminishing in cross sectional area from the front of the aeroplane toward the rear thereof. Its lower part A forms a horizontal plane, and the upper part B is arched.

The upper plane B is divided into a number of arched sections C C C C as is also the lower plane, the less arched sections of which D D D D are each slightly inclined to the axis.

Two rudders of descent are provided, one E, in front, and the other F, at the rear of the aeroplane. These rudders are of cloth and their front portions are slightly loose in order that they may assume a concave or convex form under air pressure. The motor is adapted to actuate one or two propellers G G placed in front. Two ailerons, H H, which are flexible at their extremities, are placed in the rear of the aeroplane to assure the stability thereof, being assisted by other known devices such as steering rudders, I, etc.

Each of the sections C of the upper plane is divided into several portions J J J J, which form planes for the purpose of augmenting, first the resistance to the air in volplaning, by reason of greater bearing surface, and finally, to form arched planes making a series of independent parachutes of great resistance in case of a fall.

The modification, diagrammatically represented in Fig. 4, shows a construction of the apparatus in which the sections are superposed, leaving, however, an air passage between adjacent sections. Movable ailerons K K disposed at the edges of each section serve to maintain the stability of the apparatus and to facilitate the turnings, and they also serve to slacken the speed in descents or falls because of the maximum horizontal position which they can assume.

The principal advantages are the following: Homogeneity of the apparatus which presents its greatest force of resistance in the front. Solidity of divided and independent planes. Complete suppression of wings and stability through flexible and movable ailerons.

The construction represented in the accompanying drawings only shows one application of the invention which can undergo many variations of construction without departing from the spirit of the invention.

We claim:

An aeroplane having a semi-conical shaped body portion, the cross sectional area diminishing from the front of the body to the rear thereof, the upper surface being arched and the lower surface being horizontal, said upper surface comprising a series of longitudinally spaced laterally arched sections of a curvature corresponding to the curvature of the cone, said horizontal surface comprising longitudinally spaced sections positioned beneath said first mentioned sections, and a pair of flexible ailerons adjacent the rear end of the body portions.

In testimony whereof we have signed our names to this specification in the presence of two subscribing witnesses.

JOSEPH BONNOT.
ALFRED BELOT.
JEAN VASSALLO.
ROSE EMERY.

Witnesses:
E. DUASSON,
ALLAN MACFARLANE.