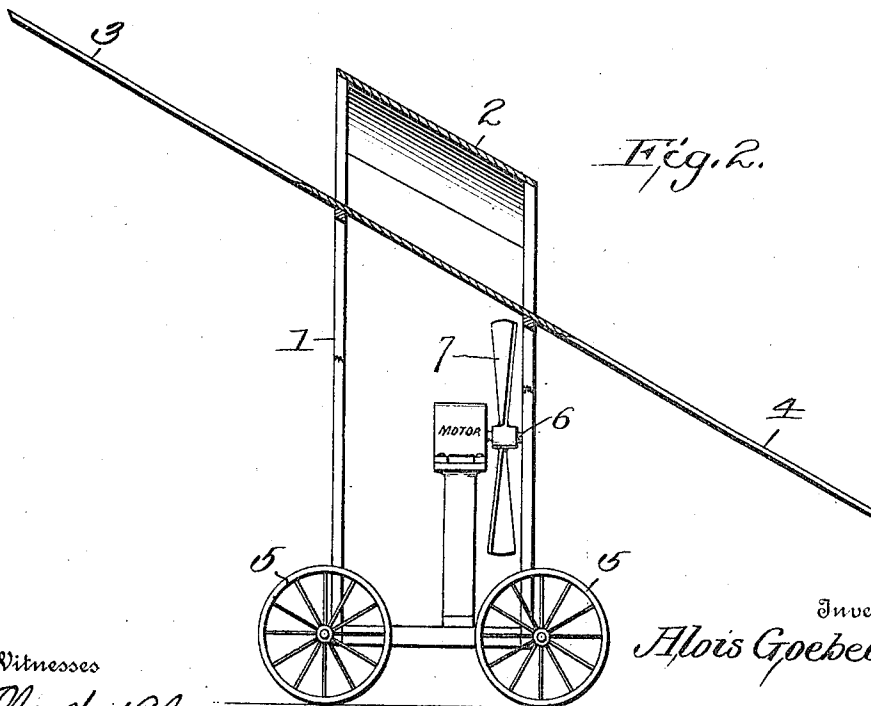
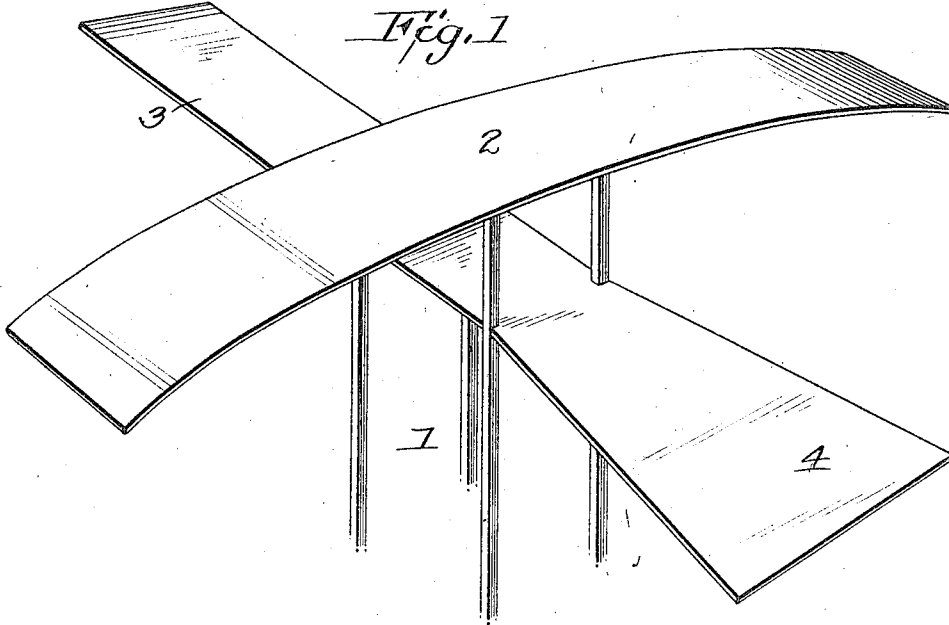


A. GOEBEL.
AEROPLANE.
APPLICATION FILED JULY 17, 1911.

1,043,222.

Patented Nov. 5, 1912.



Witnesses

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UNITED STATES PATENT OFFICE.

ALOIS GOEBEL, OF MARBLE FALLS, TEXAS.

AEROPLANE.

1,043,222.

Specification of Letters Patent.

Patented Nov. 5, 1912.

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To all whom it may concern:

Be it known that I, ALOIS GOEBEL, a citizen of the United States, residing at Marble Falls, in the county of Burnet and State of Texas, have invented a new and useful Improvement in Aeroplanes, of which the following is a specification.

This invention relates to improvements in aeroplanes, and especially in the arrangement and construction of the planes.

The object of the invention is to construct an aeroplane which will require no mechanism other than the planes to maintain its equilibrium, and a further object of the invention is to construct an aeroplane in which the center of gravity will be below both the upper and lower planes, thereby maintaining the frame work carrying the driving, and steering mechanism, and the operator, in a vertical position.

The invention consists of upper and lower planes arranged at right angles to each other, the lower plane being inclined upwardly and forwardly, and being wider at its lower rear end than at the front.

In the accompanying drawings, Figure 1 is a perspective view of the planes. Fig. 2 is a side elevation of the aeroplane, a portion of the device being shown in section, the driving and other mechanism being omitted.

In these drawings, 1 represents a suitable upper frame work upon which is mounted transversely with respect to the direction of flight, an upper plane 2, slightly curved transversely, and about four feet below this upper plane is mounted a lower plane 3. The two planes are substantially of the same length and are at right angles to each other, and as shown in Fig. 2 are substantially parallel, both planes being inclined upwardly from front to rear. The lower plane to the rear of the frame work 1 gradually widens forming a rear and lower tail portion 4. The frame is mounted upon suitable wheels 5, and is provided with a propeller shaft 6, and a propeller 7, which is arranged within the frame 1, and immediately below the lower plane. Within this frame work, I also design to place any suit-

able form of driving mechanism, and a suitable stand or seat for the operator. The device can also be used in connection with any suitable form of steering mechanism, but as my invention relates particularly to the construction and arrangement of the upper and lower planes, I do not wish to limit the invention to any particular type of propeller or steering mechanism. The only essential feature is that the weight carried should be within the lower portion of the frame 1 so that the center of gravity will be below the two planes and approximately immediately below either point of intersection. By reason of such location of the weight the frame 1 will stay in a vertical position both when upon the ground and while in the air, and the operator can if he desires by throwing his weight forward or backward cause the said frame to lean from the vertical, thereby shifting the position of the planes with respect to the aeroplane, thus regulating ascent and descent of the device. Furthermore, planes so constructed and arranged will act as a parachute and check too quick a descent in case of any accident to the propelling mechanism.

What I claim is:—

An aeroplane comprising a vertical frame, a transversely curved upper plane projecting laterally upon each side of said frame, the front edge of said plane being always in a horizontal plane above the rear edge, and a lower plane arranged at right angles to the upper plane and extending both in advance of and to the rear of said frame, said lower plane sloping upwardly from rear to front and at the same pitch with respect to the ground level as the inclination of the upper plane, that portion of the lower plane to the rear of the frame gradually increasing in width, and propeller mechanism arranged in the lower portion of the frame, the center of gravity being within said frame and below the two planes.

ALOIS GOEBEL.

Witnesses:

C. M. MARRS,
E. C. FOWLER.