

Dec. 10, 1929.

W. C. WARD

1,739,193

YIELDABLE LANDING PLATFORM FOR AEROPLANES

Filed Jan. 9, 1928

2 Sheets-Sheet 1

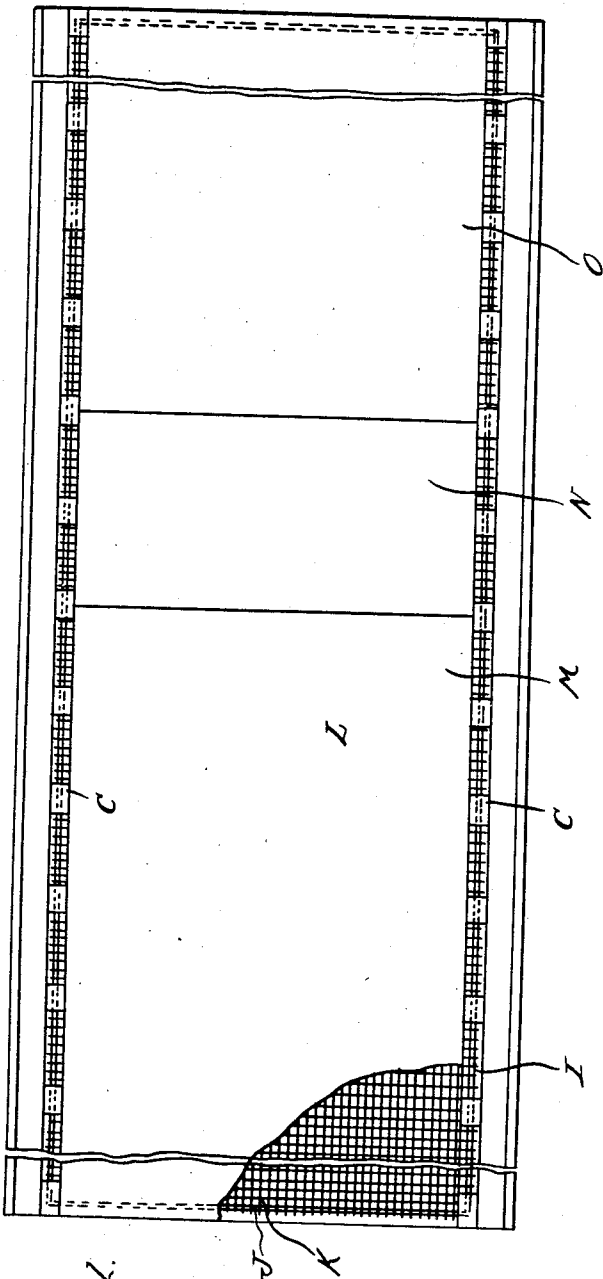


Fig. 1.

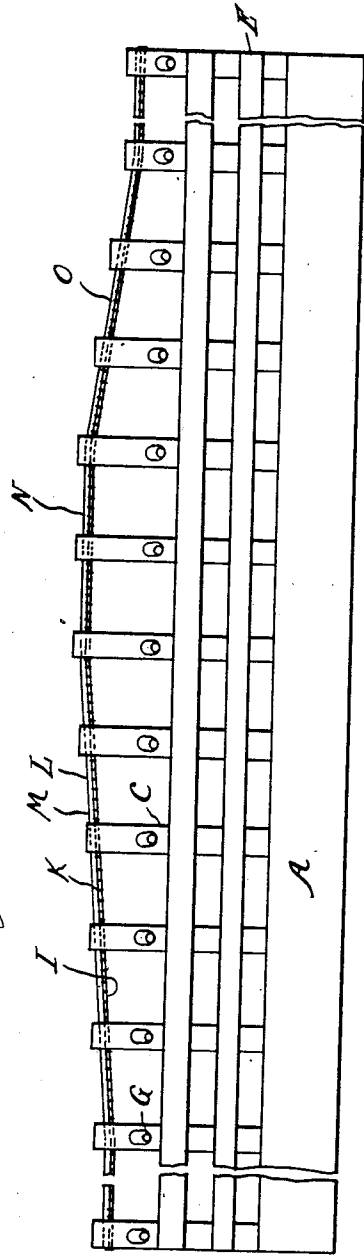


Fig. 2.

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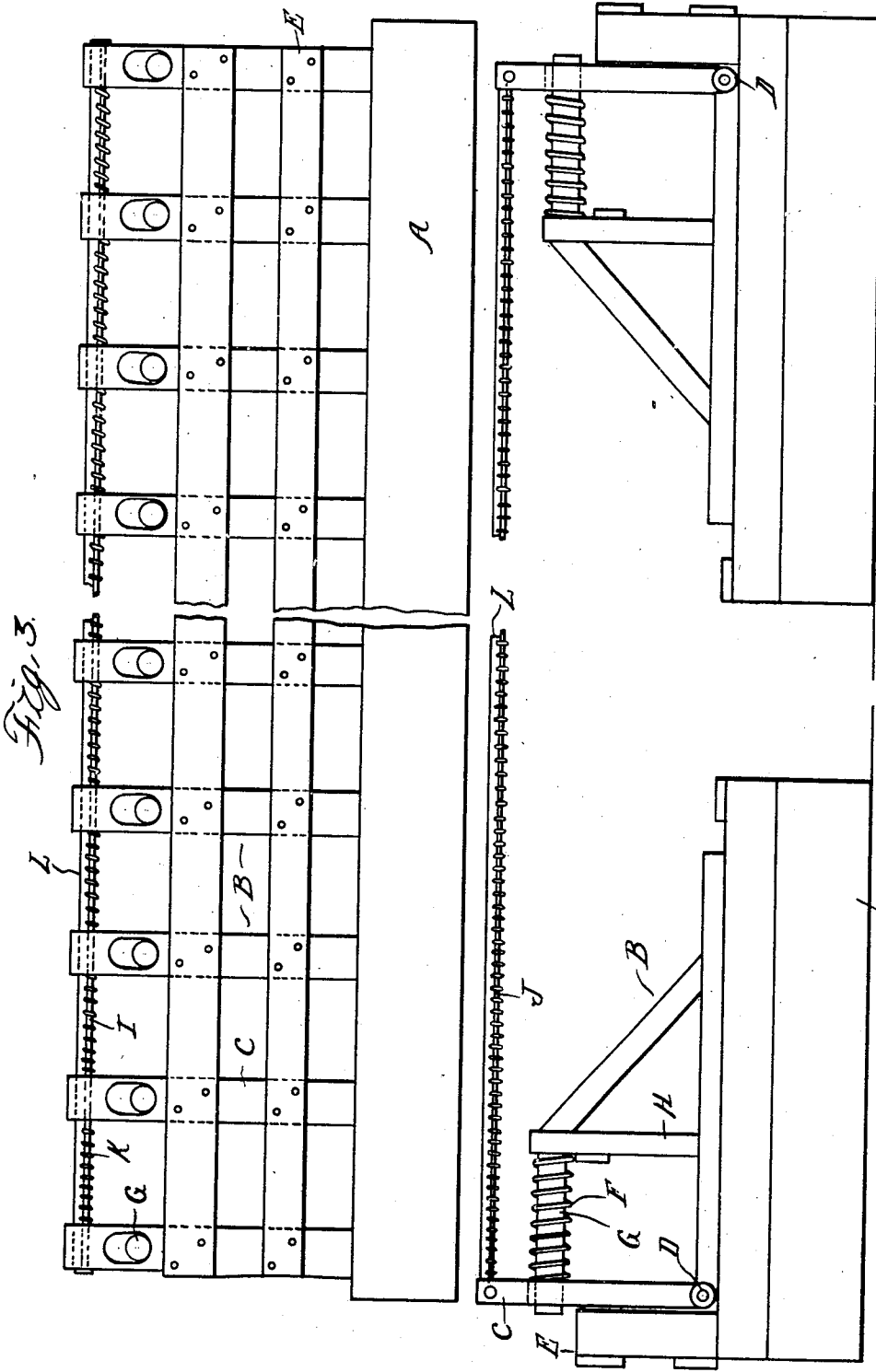


Fig. 3.

Fig. 4.

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# UNITED STATES PATENT OFFICE

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YIELDABLE LANDING PLATFORM FOR AEROPLANES

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The invention relates to landing platforms for aeroplanes such as might be used on boats, buildings or any other convenient locations.

It is the object of the invention to provide a yieldable platform which will cushion the shock in case of too rapid descent of the plane thereon and which will also retard the movement of the plane after landing so as to reduce the necessary area. With such objects in view the invention consists in the construction as hereinafter set forth.

In the drawings;

Figure 1 is a diagrammatic plan view of the yieldable landing platform.

Figure 2 is a diagrammatic side elevation thereof.

Figures 3 and 4 are respectively an enlarged side elevation and cross section showing the construction of the resilient supporting means for the platform.

My improved landing platform consists essentially in a woven cable fabric which is held under suitable resilient tension to normally maintain a horizontal or slightly inclined position but which will yield under the impact of a landing machine.

As shown in Figure 4 A are suitable foundations of concrete or other material arranged at opposite sides of the platform. B are frames mounted on said foundations and including vertically extending rocker arms C pivoted at D also abutments E on the outer side of said rocker arms and springs F bearing against the inner sides of said arms. The springs F are preferably sleeved upon rods G which are secured to braced abutments H constituting a portion of the frame B.

The rocker arms C are suitably spaced from each other and extend along the entire side of the platform being connected to each other by a flexible rod or cable I. To this rod or cable are attached a series of cross cables J which by the tension of the springs F are held taut. Interwoven with the cross cables J are longitudinal cables K the arrangement being such as to form a close fabric or carpet. If desired this may be covered with any suitable flexible material such as L which will form a proper surface

upon which the wheels of the landing gear may run.

With the construction as described the aviator in landing his plane is not required to exercise as great care as is usual in straightening out his plane for the platform will yield to absorb at a down impact. Also the weight of the machine after landing will depress the platform offering greater resistance to the forward movement of the machine and thereby bringing it to a stop in a shorter distance. If desired the platform may be arranged with an upwardly inclined portion M as indicated in Figure 2 on which the plane may land and being also provided with a horizontal portion N on which the plane can stand and a downwardly inclined portion O for assisting the taking off of the plane. The essential feature is, however, the resilient yieldable construction which has the advantages above described.

What I claim as my invention is:

A landing plane for aeroplanes comprising a foundation, rocker arms mounted on said foundation, a woven cable fabric extending between said rocker arms and resilient means reacting upon said rocker arms to hold said fabric normally taut while permitting yielding of the same under impact and weight of the plane.

In testimony whereof I affix my signature.  
WILLIS C. WARD.

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