STAY FOR AEROPLANES, HYDROPLANES, AND THE LIKE

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Inventor

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1,512,111
To all whom it may concern:
Be it known that Jean Alfred Latham, engineer, citizen of the Republic of France, residing in Caudebec-on-Caux (Seine-Inferieure), France, have invented certain new and useful Improvements in or Relating to Stays for Aeroplanes, Hydroplanes, and the like; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this specification.

This invention relates to a system of stream-line stays, guys and the like, for aeroplanes and other suitable applications, intended to replace advantageously the guys constituted by metallic cables which are in use at the present time, these guys being liable to stretching and to frequent breakage.

According to this invention the steam-line stay is, in principle, constituted by a series of superposed metallic blades arranged longitudinally in any direction, the width of the said blades preferably decreasing gradually from the central blade outwards. The ends of these blades are each provided with an eye adapted to receive a fastening pin. In order to improve the aero-dynamical efficiency of the stay by diminishing its fluid desistance, the bundle of blades constituting the wire may be tapered, that is, covered with any covering which gives it a smooth section, as may be desired.

The appended drawing shows, as an example, one particular form of stays constructed according to the invention.

Fig. 1 is a transverse section of a wire constituted by superposed metallic blades $c$ the width of which decreases from the central blades outwards, the blades being parallel to the line of motion.

In Fig. 2, the superposed metallic blades $z$ are arranged in a direction perpendicular to that of Fig. 1, that is, they have their planes perpendicular to the line of motion.

In order to improve the aero-dynamical efficiency of these wires, the bundle of blades $a$ is taped, that is covered with a smooth covering of any suitable material $b$.

The stay so constituted may be secured in the manner shown in Figs. 3 and 4. In this example, the ends of the blades $a$ are widened at $c$ so as to constitute a large head which is provided with an eye $d$ allowing a fastening pin to pass through; the strength of each of the blades at the eye is calculated to be equal to that of the body of the blade.

Having now particularly described and ascertained the nature of my said invention and in what manner the same is to be performed, I declare that what I claim is:

1. A stay comprising a plurality of superimposed disconnected metal laminae having registering perforations and a wrapping therefor to produce a smooth surface.

2. A stay comprising a plurality of disconnected superimposed metal laminae having ends wider than the body thereof and said ends having registering perforations, and a wrapping therefor to produce a smooth surface.

3. A stay comprising a plurality of unconnected superposed metal laminae of different widths having registering perforations and a wrapping to form a smooth surface.

4. A stay comprising a plurality of disconnected superimposed metal laminae decreasing in width from a central lamina, and a wrapping to form a smooth surface.

5. A stay comprising a plurality of disconnected superimposed metal laminae of different widths, each lamina having widened ends provided with perforations for registering with perforations of the other lamina forming the stay, said lamina arranged to form a stay having approximately a stream line surface, and a wrapping to form a smooth contour.

In testimony that I claim the foregoing as my invention, I have signed my name.

Jean Alfred Latham.