

1,329,062.

P. PIERCE.
TOY,
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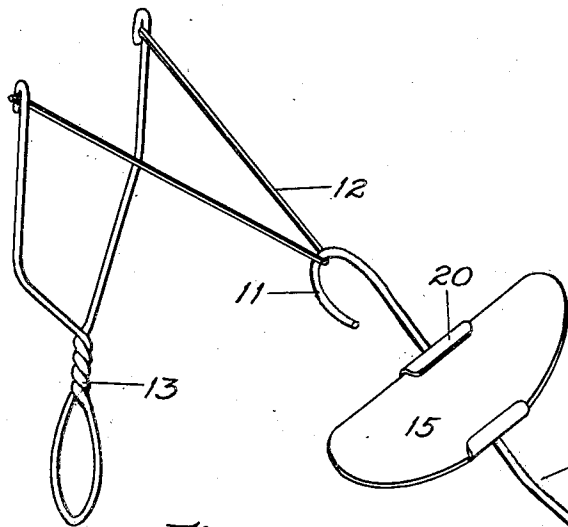


Fig. 4.

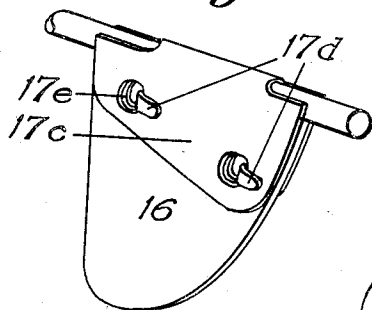


Fig. 3.

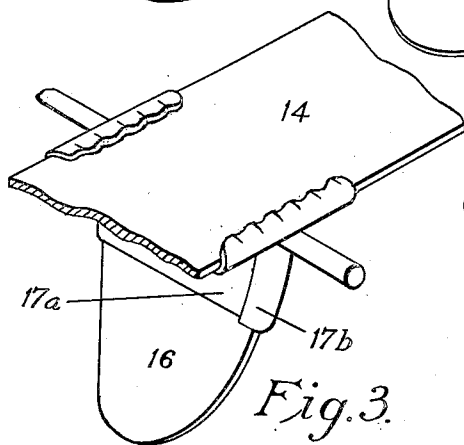
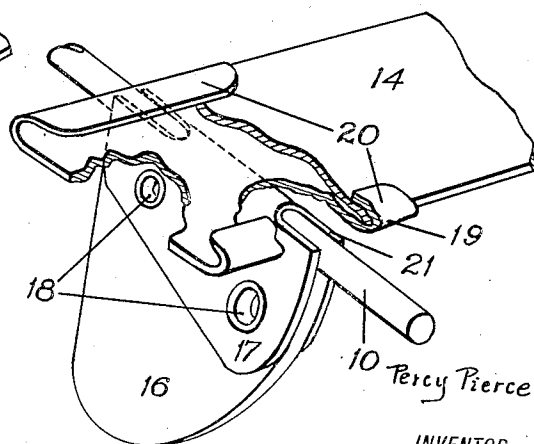


Fig. 1.

WITNESS
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Fig. 2.

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TOY.

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To all whom it may concern:

Be it known that I, PERCY PIERCE, citizen of the United States of America, residing at Philadelphia, Pennsylvania, have invented certain new and useful Improvements in Toys, of which the following is a specification.

My invention relates to an aerial toy in the form of an aeroplane designed to be propelled through the air by means of a sling shot or like device.

The object of the invention is to provide a toy of this character of simple construction, easily operated by a child, and one which may be adjusted so as to describe loops in the air as is frequently done by aviators.

The preferred form of the invention is illustratively exemplified in the accompanying drawing, in which—

Figure 1 is a perspective view of the toy aeroplane associated with a sling shot;

Fig. 2 is a perspective view illustrating the means for attaching the keel to the rear plane;

Fig. 3 is a view similar to Fig. 2 of a modified form of attaching the keel to the rear plane and Fig. 4 is a similar view of a still further modified form of keel attachment.

The body of the toy comprises a strand of flexible material such as a wire 10 having a hook 11 provided at one end thereof to be engaged by the cord or rubber band 12 on the sling shot 13 and a hook or curved portion 10^b at the other end to provide a handhold in operation. Attached to the strand 10 is a rear plane 14 and a front plane 15, the rear plane being of greater length than the front plane. Intermediate the planes 14 and 15 the strand or body portion 10 is bent as indicated at 10^a, whereby the planes will be at an angle to each other, so that as the toy is projected through the air it will describe a loop, or turn completely about itself, at a certain point in its trajectory. The flexibility of the strand 10 permits the angle or bend 10^a to be of any desired size within certain limits, so that the angle of incidence of the planes may be varied.

Attached to the device below the rear plane is a keel 16 which may be secured under the plane either in the manner shown

in Fig. 2 or in the manner shown in Figs. 3 or 4. The keel is wedge shaped, being of greatest width at the top. In the form of construction shown in Fig. 2 the upper part of the keel is covered by a web of metal 17, the sides of which are bent over the sides of the widened portion of the keel, the metal being attached to the keel by eye-lets 18. The underside of the plane 14 is provided with a metal plate 19, the edges 20 of which may be crimped and overlap the upper face of the plane at opposite sides whereby the plane is held in position. The strand 10 rests on the top of the wider end of keel 16 and is tightly secured there-to by the metal web 17. The narrow horizontal part of the web 17 which overlies the wire 10 is attached to the under face of the metal plate 19 by soldering, spot welding, or in any other suitable manner. If desired the horizontal portion of the metal web 17 may be provided with slots or cut-out portions 21 at each end thereof so that the metal plate 19 may be attached not only to the upper face of the metal web 17 but also to the wire strand 10.

In the modified form of Fig. 3, the rivets 18 are omitted, and one part of the web 17^a is provided with a tongue or elongation 17^b which may be lapped over the outer face of one part of the metal web 17^a lying adjacent the side of the keel 16. The construction of Fig. 3 is quite as secure as that of Fig. 2 and is cheaper and possibly somewhat more sightly. In other respects the two methods of attaching the parts together are alike.

In Fig. 4 the keel is provided with perforations 17^c and struck up from one side of the web 17^c are teats or tongues 17^b which pass through the perforations and are bent or clenched down against the outer face of the web on the opposite side to that from which the tongues are struck up.

In operation the rubber band 12 of the sling shot which is held in one hand, is engaged with the hook 11, the band 12 tensioned, the toy being held by the hook 10^b or the keel 16, in the other hand and quickly released whereby the toy will be shot or projected through the air and in the course of its trajectory will make a loop, the point at which this is done and the extent of the loop being dependent partly upon the force

with which the toy is propelled and partly upon the angle between the front and rear planes.

What I claim is:—

5 1. An aerial toy in the form of an aero-plane, comprising a body portion consisting of a flexible wire, planes having metal plates at the bottom thereof attached to said wire, the edges of said metal plates overlapping
10 the upper faces of the planes at opposite sides thereof, and a keel secured below one of said planes.

2. An aerial toy in the form of an aero-plane, comprising a flexible strand, planes
15 attached to said strand at an angle to each other, a metal web attached to and under one of said planes and through which web a portion of the flexible strand extends, and a keel secured in said web.

3. In a toy of the character described, the
20 combination with a body portion comprising a strand of flexible material, of planes attached to said body portions at an angle to each other, a keel secured below one of
25 said planes, and means for securing said keel in position comprising a web of material embracing a portion of said keel and having tongues extending from one side of
the web passing through perforations in the
30 keel and clenched down on the other side of the web.

In testimony whereof I have affixed my signature in presence of two witnesses.

PERCY PIERCE.

Witnesses:

OTTO MUNK,
CLARICE FRANCK.