

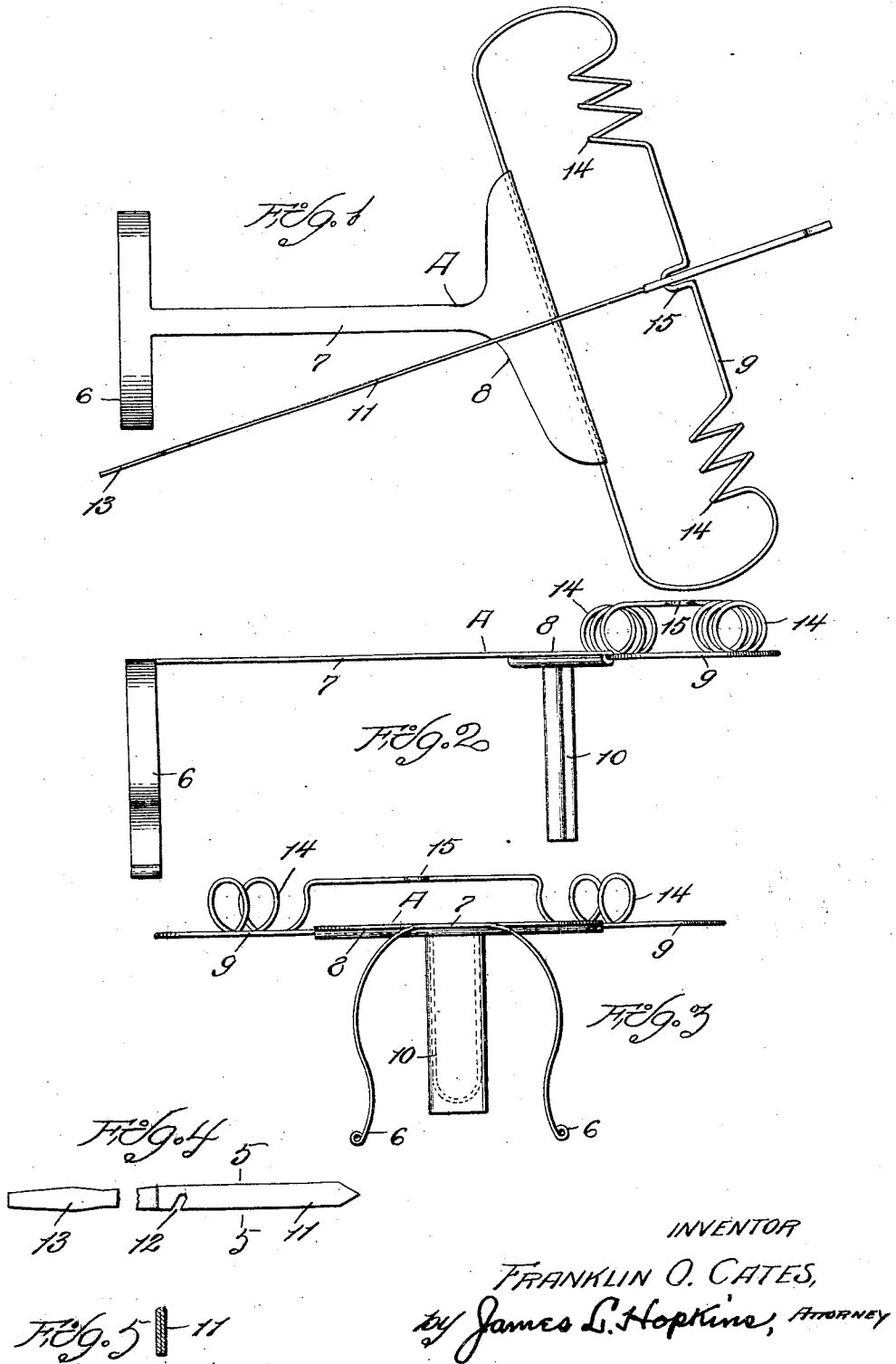
May 18, 1926.

1,584,729

F. O. CATES

BOW

Filed Feb. 12, 1925



UNITED STATES PATENT OFFICE.

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BOW.

Application filed February 12, 1925. Serial No. 8,649.

My invention relates to improvements in bows, and has for its object to provide an arrow-discharging device comprising a base embodying an arm-fitting brace, a handle, and a hand-guard; and a looped resilient cord-member; the brace, handle and hand-guard being preferably formed from a single metallic sheet.

Drawings.

In the drawings—

Fig. 1 is a plan view of a bow embodying my invention, with a projectile in place.

Fig. 2 is a side elevation of the bow.

Fig. 3 is a rear elevation of the bow.

Fig. 4 is a side elevation of the projectile for my bow, a part being broken away.

Fig. 5 is a transverse sectional view of said projectile, taken on the line 5—5 of Fig. 4.

Description.

The member A is preferably struck from a single metallic sheet to form the bifurcated arm-fitting brace 6; the bar 7; the cord-base 8 wherein the resilient cord-member 9 is mounted as shown; and the handle 10.

The cord-base 8 serves also as a guide for the projectile arrow 11, and as a guard for the archer's hand, which is thereby kept from contact with the arrow 11.

The arrow 11 is preferably formed of a metallic sheet folded upon itself as shown in Fig. 5; the arrow 11 having the cord-engaging notch 12 and an expanded rear end or feather B, serving both as a finger-hold and to guide the arrow 11 in its flight.

The cord-member 9 I have shown as made of a single tempered wire whose terminals are embedded in the cord-base 8, the resiliency of the cord-member 9 being augmented

by the coiled-springs 14—14 formed of the single wire employed; and I have also shown that single wire as having a central V-shaped half-loop 15 to engage with the notch 12 of the arrow 11.

Mode of operation.

In use, the handle 10 is grasped by the left hand of the archer, the brace 6 engaging his left arm between the elbow and wrist.

The arrow 11 is then dropped into place, its notch 12 engaging the cord-member 9 at the half-loop 15; the arrow 11 is then drawn rearwardly, the feather 13 being held between the thumb and a finger of the archer's right hand, until, the desired tension having been produced in the cord-member 9, the arrow is released.

Various embodiments of my invention may be made without departing from my invention as hereinafter claimed.

I claim—

1. A bow comprising a base including a handle and an arm-brace, and a cord member mounted in said base.

2. A bow comprising an element formed from a single metallic sheet and comprising an arm-fitting brace, a cord-base, and a bar connecting said arm-fitting brace and cord-base; in combination with a resilient cord-member mounted in said cord-base.

3. A bow comprising a base including a handle and an arm-brace, in combination with a resilient cord-member made of a single wire whose terminals are embedded in said base and having a central V-shaped half-loop arranged to engage a projectile.

In testimony whereof I have hereunto affixed my signature.

FRANKLIN O. CATES.