

M. COOKSEY,
PROPELLER.
APPLICATION FILED SEPT. 1, 1909.

958,599.

Patented May 17, 1910.

Fig. 1.

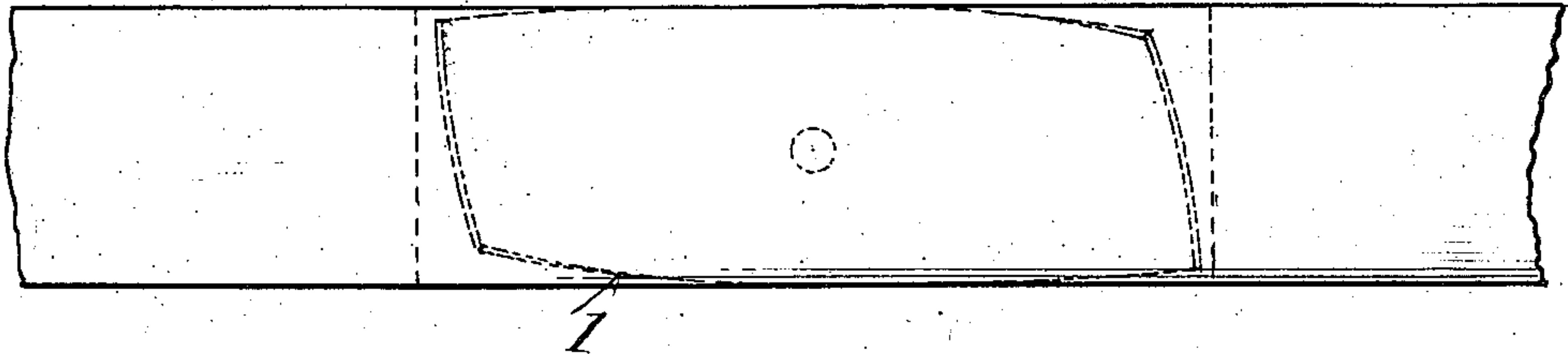


Fig. 2.

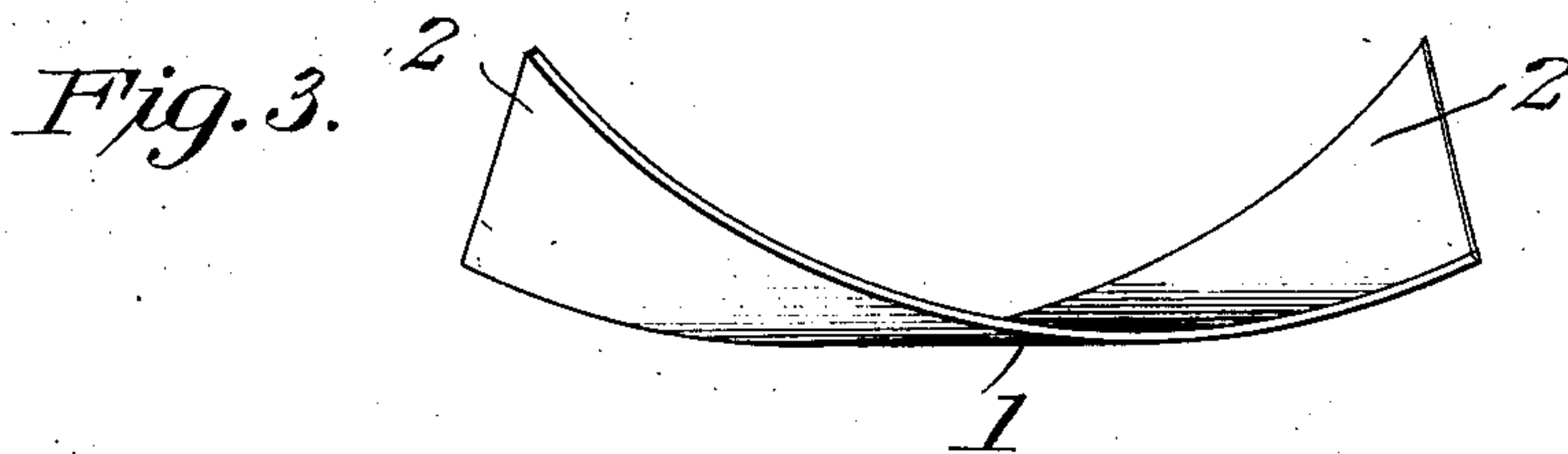
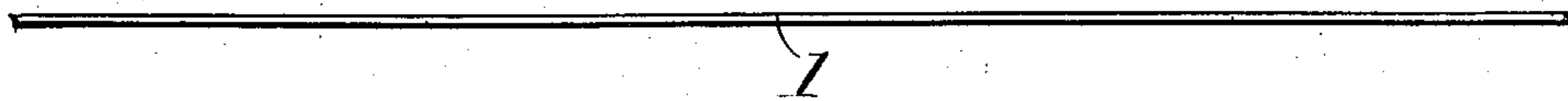
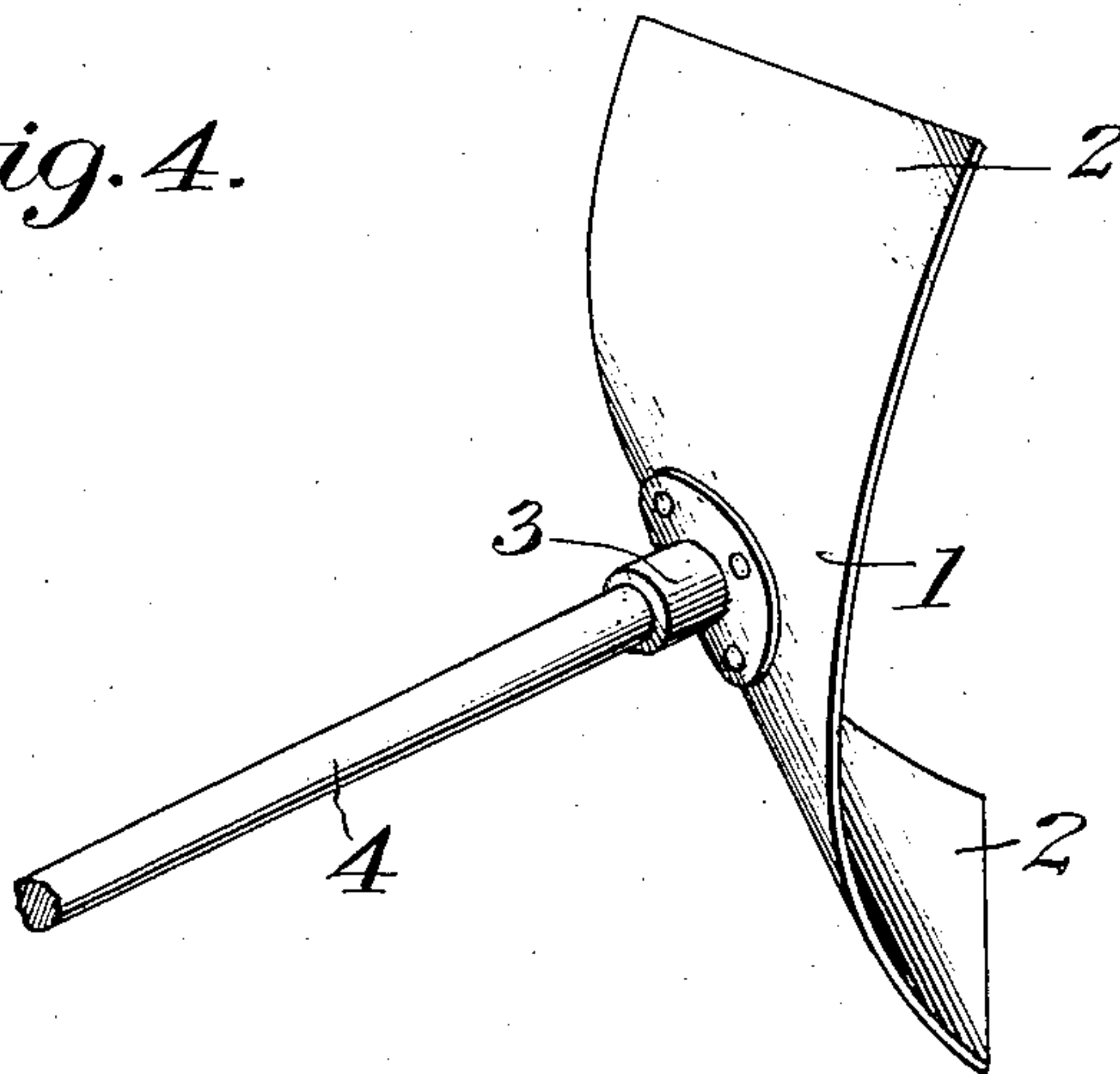


Fig. 4.



Witnesses

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UNITED STATES PATENT OFFICE.

MANSFIELD COOKSEY, OF BALTIMORE, MARYLAND.

PROPELLER.

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To all whom it may concern:

Be it known that I, MANSFIELD COOKSEY, a citizen of the United States, residing at Baltimore, in the State of Maryland, have
5 invented new and useful Improvements in Propellers, of which the following is a specification.

This invention relates to propellers and has for an object to provide a propeller that
10 can be stamped from a single piece of springy sheet metal and bent at two ends to form flukes; the said flukes being so arranged that the water, in operation of the propeller will be thrown outwardly away
15 from the center of the propeller blade to relieve the latter practically of all strain and resistance and allowing the blade to revolve with great rapidity or velocity.

Another object of the invention is to provide a propeller wherein the central or bearing portion thereof will be of an equal diameter to that of the respective flukes.

Other objects and advantages will be apparent as the nature of the invention is better disclosed and it will be understood that
25 changes can be made within the scope of the claims without departing from the spirit of the invention.

In the drawings forming a portion of this
30 specification and in which like numerals of reference indicate similar parts in the several views:—Figure 1 is a plan view of a blank of sheet metal showing in dotted lines the manner of forming my improved propeller.
35 Fig. 2 is an edge view of the blank from which the propeller is formed. Fig. 3 is a side view of the propeller. Fig. 4 is a perspective view of the propeller.

My improved propeller consists of a blank
40 1 which is of rectangular form and as shown the blade is of an equal width throughout the entire length of the blank. The blank is bent on a longitudinal line throughout the longitudinal area of the same and at each
45 end one corner of the said blank is bent outwardly on a line approximately 45° to the central portion of said blank. In this manner of bending the blank it will be seen that a substantially spiral fluke 2 is provided at

each end, one fluke extending in an opposite
50 direction to the other. The propeller after being thus formed receives a bearing member 3 in which is mounted one end of the propeller shaft 4.

The propeller is formed from springy material which, when the propeller is in operation will effectively serve as means for absorbing any sudden shock or jar incident to the propeller coming in contact with an obstruction.
60

As stated the propeller is of an equal width throughout its entire length and incident to the fact that the flukes are of spiral form and are arranged to lie at an opposite angle to each other they will in operation
65 of the propeller throw the water from the center toward the outer extremity of the flukes, thus relieving the central portion of the propeller of any strain and allowing the same to revolve with great rapidity or velocity.
70

I claim:—

1. A propeller formed from a single blank of springy sheet metal whose transverse area is the same throughout its entire length,
75 said blank being curved throughout its longitudinal area and bent at its ends to form oppositely extending flukes which extend approximately at an angle of 45° to the axis of the said propeller.
80

2. A propeller comprising a blade formed from a single blank of material whose transverse area is the same throughout its entire length, and spiral flukes at the ends of the said blade.
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3. A propeller formed from a single blank of springy sheet metal whose thickness is the same throughout, the width of the said blank being the same throughout the entire transverse area and spiral flukes at the ends
90 of said blank.

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

MANSFIELD COOKSEY.

Witnesses:

JOHN L. FLETCHER,
JAMES A. KOEHL.