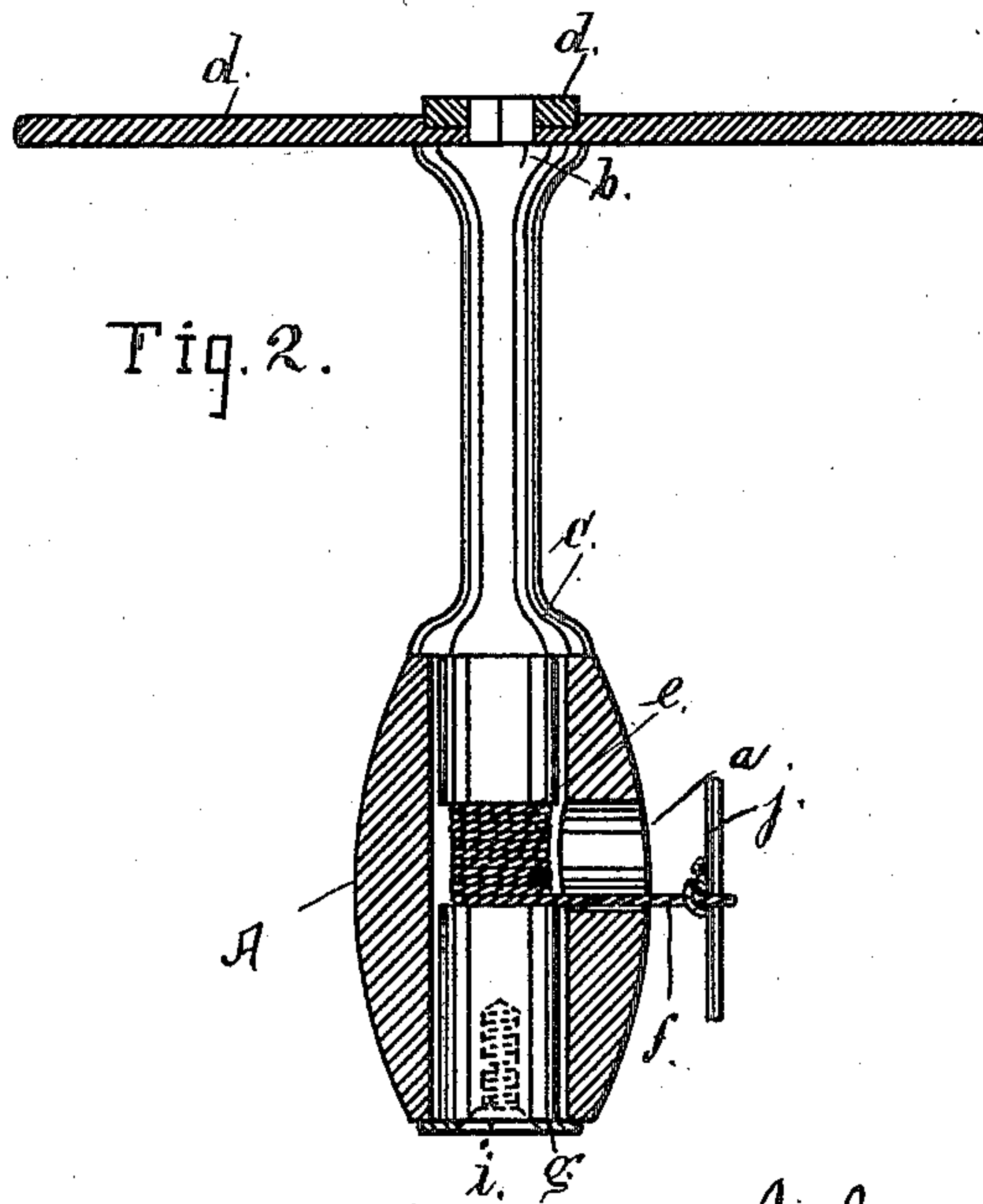
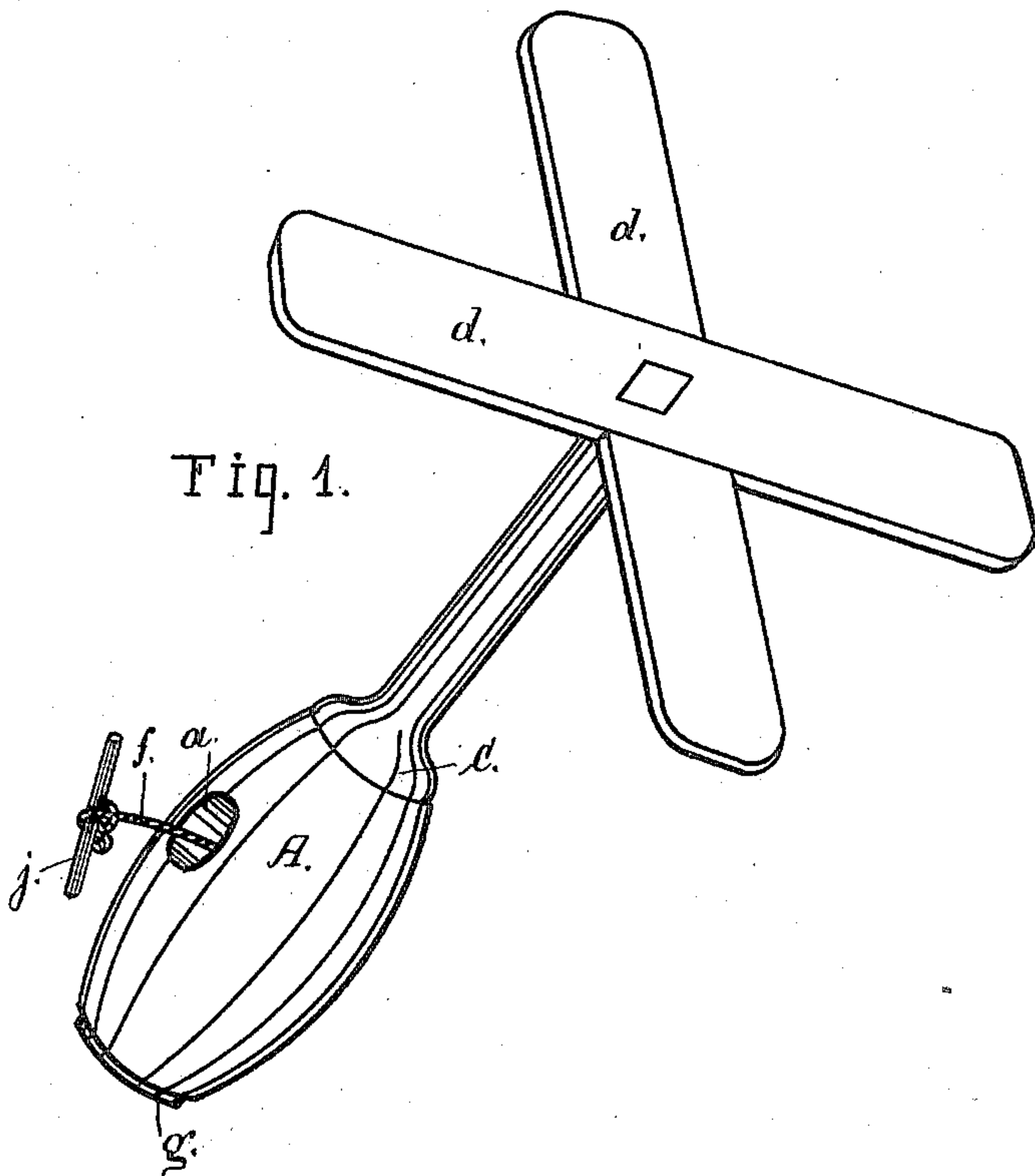


(No Model.)

J. DUPUY.
WHIRLIGIG.

No. 363,375.

Patented May 24, 1887.



WITNESSES:

Wm. Mayr
Joseph E. Ford

INVENTOR:

John Dupuy
Chas. M. Smith
Atty.

UNITED STATES PATENT OFFICE.

JOHN DUPUY, OF SAN FRANCISCO, CALIFORNIA.

WHIRLIGIG.

SPECIFICATION forming part of Letters Patent No. 363,375, dated May 24, 1887.

Application filed September 10, 1886. Serial No. 213,264. (No model.)

To all whom it may concern:

Be it known that I, JOHN DUPUY, a citizen of the United States, residing at San Francisco, in the county of San Francisco and State of California, have invented a certain new and useful Improvement in Whirligigs, of which the following is a specification, reference being had to the accompanying drawings, forming a part thereof.

10 My invention relates to that class of whirligigs employed as a toy for the amusement of children; and it consists of a hollow ball or handle in which rotates a spindle having upon the upper end thereof blades or vanes. The spindle is operated by a string passing through an opening in the side of the ball or handle, all of which will be hereinafter fully described.

In the drawings, Figure 1 is a perspective view of my whirligig. Fig. 2 is a transverse vertical section of the same.

A represents the ball or handle, which is bored or chambered vertically and pierced with a hole or opening in one side thereof at *a*. The spindle is provided with two annular shoulders, *b c*, and the square upper end thereof receives two mortised blades or vanes, *d*, which are placed one upon the other at right angles, and can be removed for convenience in packing. That portion of the lower end of the spindle which operates in the vertical bore of the handle is enlarged, and a square annular

groove, *e*, is made in the center thereof, which receives the operating string or cord *f*.

The spindle operates between the flanged shoulder *c* upon the upper end of the ball, 35 and a washer, *g*, at the lower end connects the latter to the spindle by means of the set-screw *i*, the washer moving with the spindle as it is rotated.

A suitable pin, *j*, is connected to the end of the string, and by drawing the string outward quickly a portion of its length and suddenly relaxing the pull upon it the spindle and vanes are caused to rotate in a reciprocating manner, continuously unwinding and rewinding 45 the string within the groove of the spindle.

Having thus described my invention, what I claim, and desire to secure by Letters Patent, is—

The combination, with the vertically-chambered handle A, having a side opening, *a*, of the spindle having annular shoulders *b c* and an annular groove, *e*, the washer *g* at the lower end of the spindle, the vanes *d d* at its upper end, and the operating-cord *f*, all arranged 55 substantially as described.

In testimony that I claim the foregoing I have hereunto set my hand and seal.

JOHN DUPUY. [L. S.]

Witnesses:

C. W. M. SMITH,
CHAS. E. KELLY.