

(No Model.)

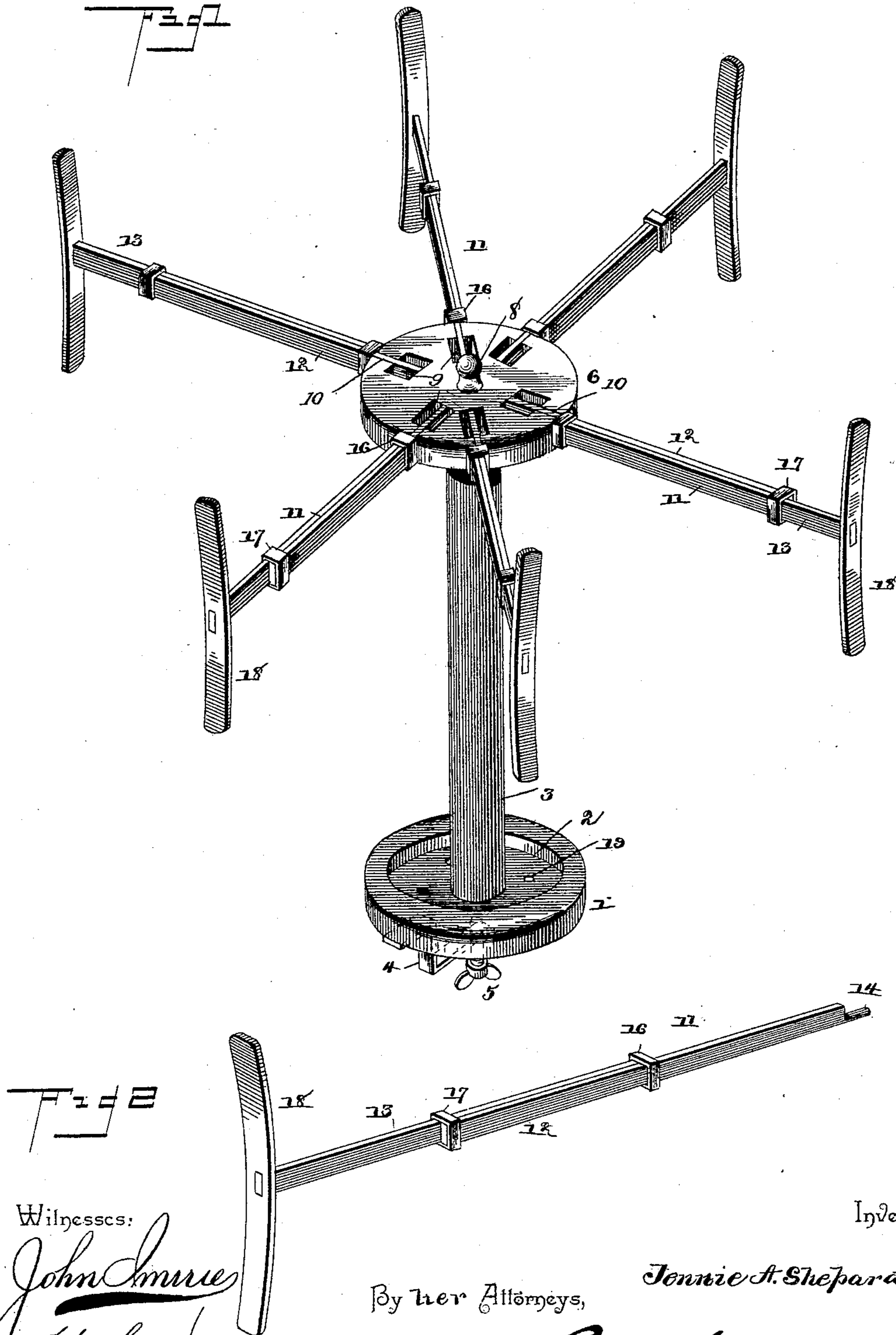
3 Sheets—Sheet 1.

J. A. SHEPARD.

REEL FOR WINDING SKEINS OF YARN, ZEPHYR, &c.

No. 435,460.

Patented Sept. 2, 1890.



Witnesses:

*John Amies*  
*W. S. Lowell*

Inventor

By her Attorneys,

*Jennie A. Shepard.*

*C. A. Snow & Co.*

(No Model.)

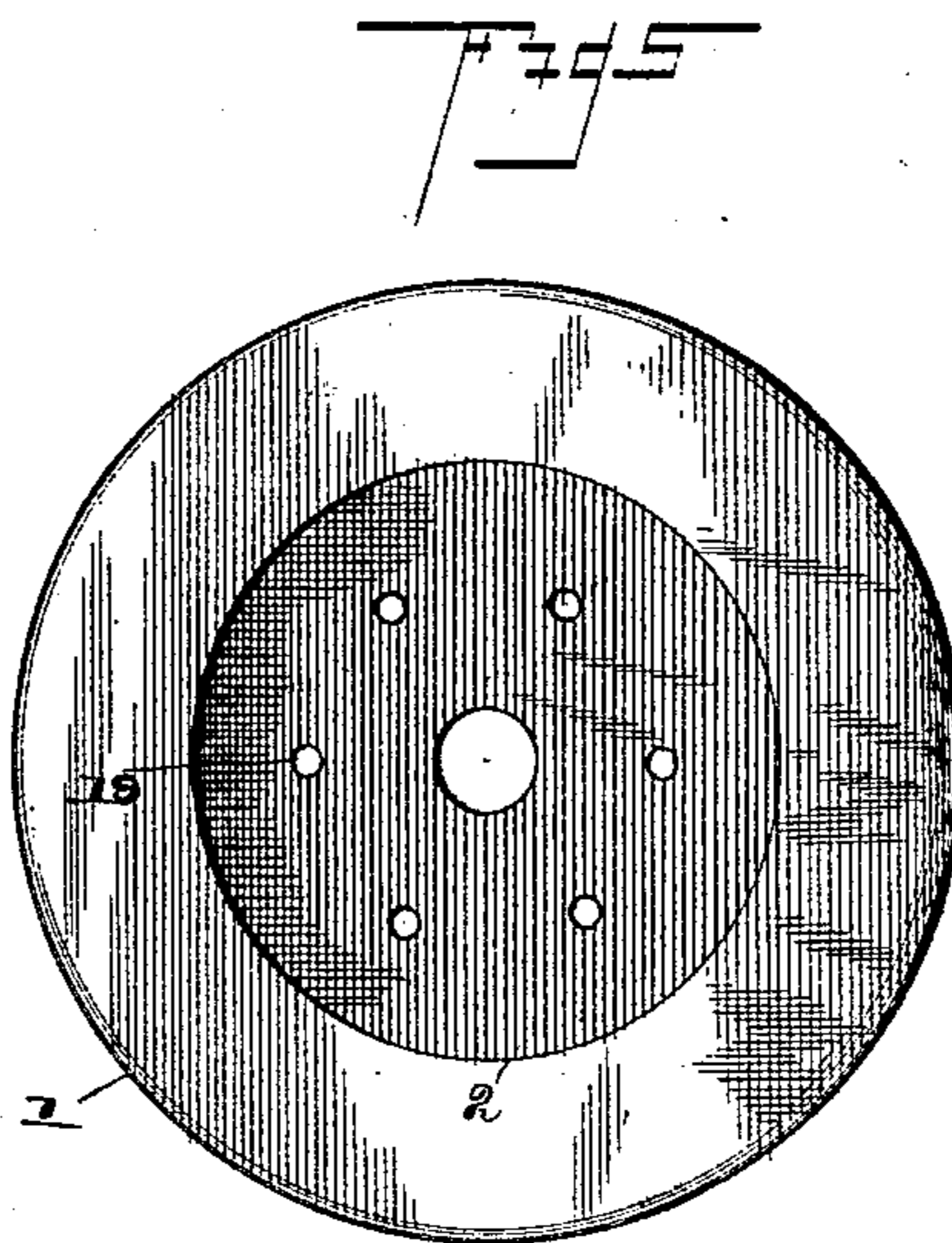
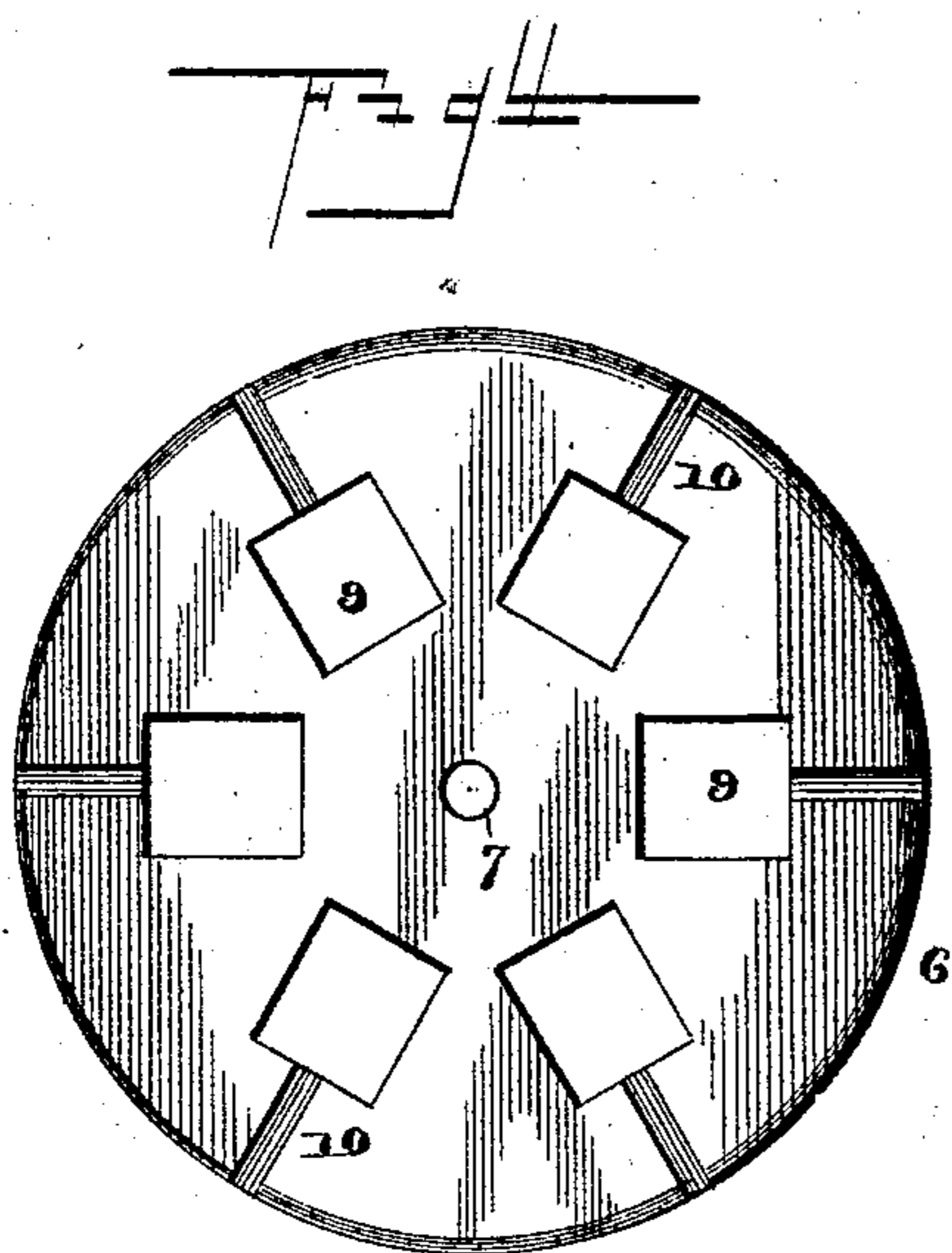
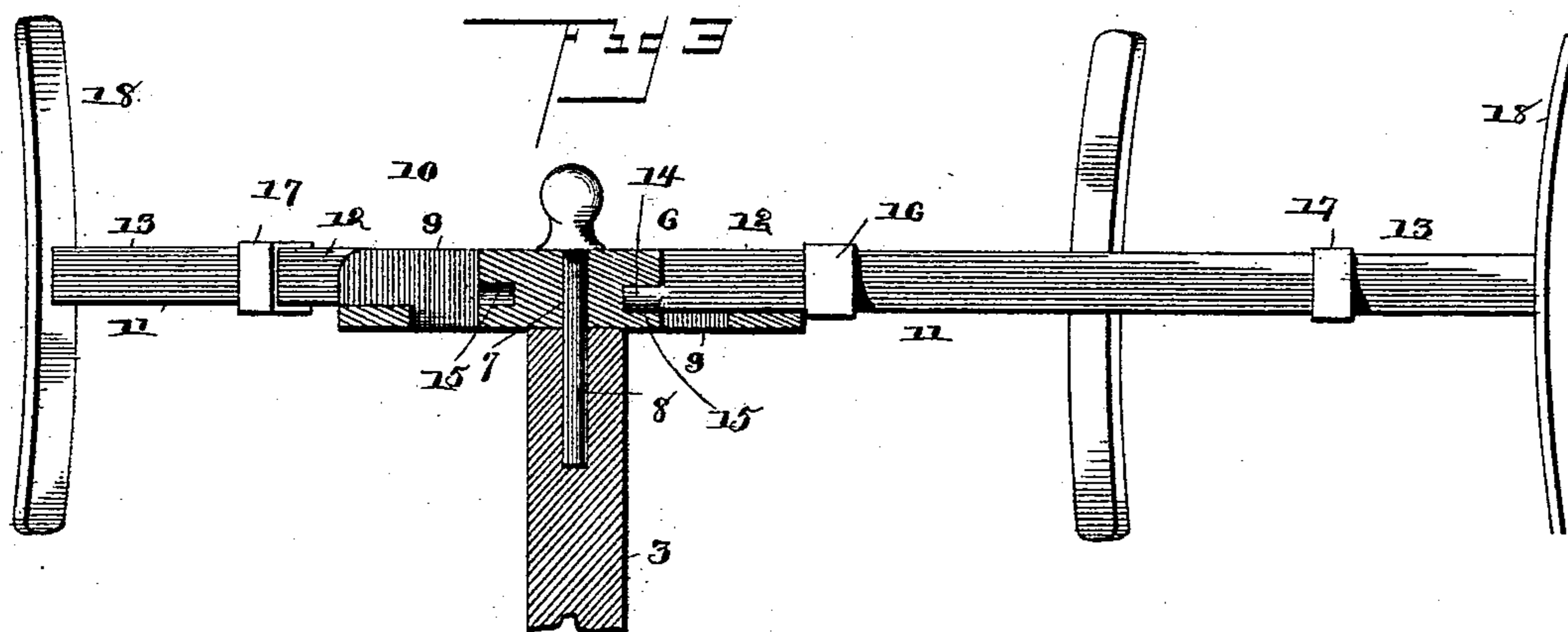
3 Sheets—Sheet 2.

J. A. SHEPARD.

REEL FOR WINDING SKEINS OF YARN, ZEPHYR, &c.

No. 435,460.

Patented Sept. 2, 1890.



Witnesses:

*John Imirie*  
*W. L. Sewall*

By her Attorneys,

Inventor

*Jennie A. Shepard*

*C. A. Snow & Co.*

(No Model.)

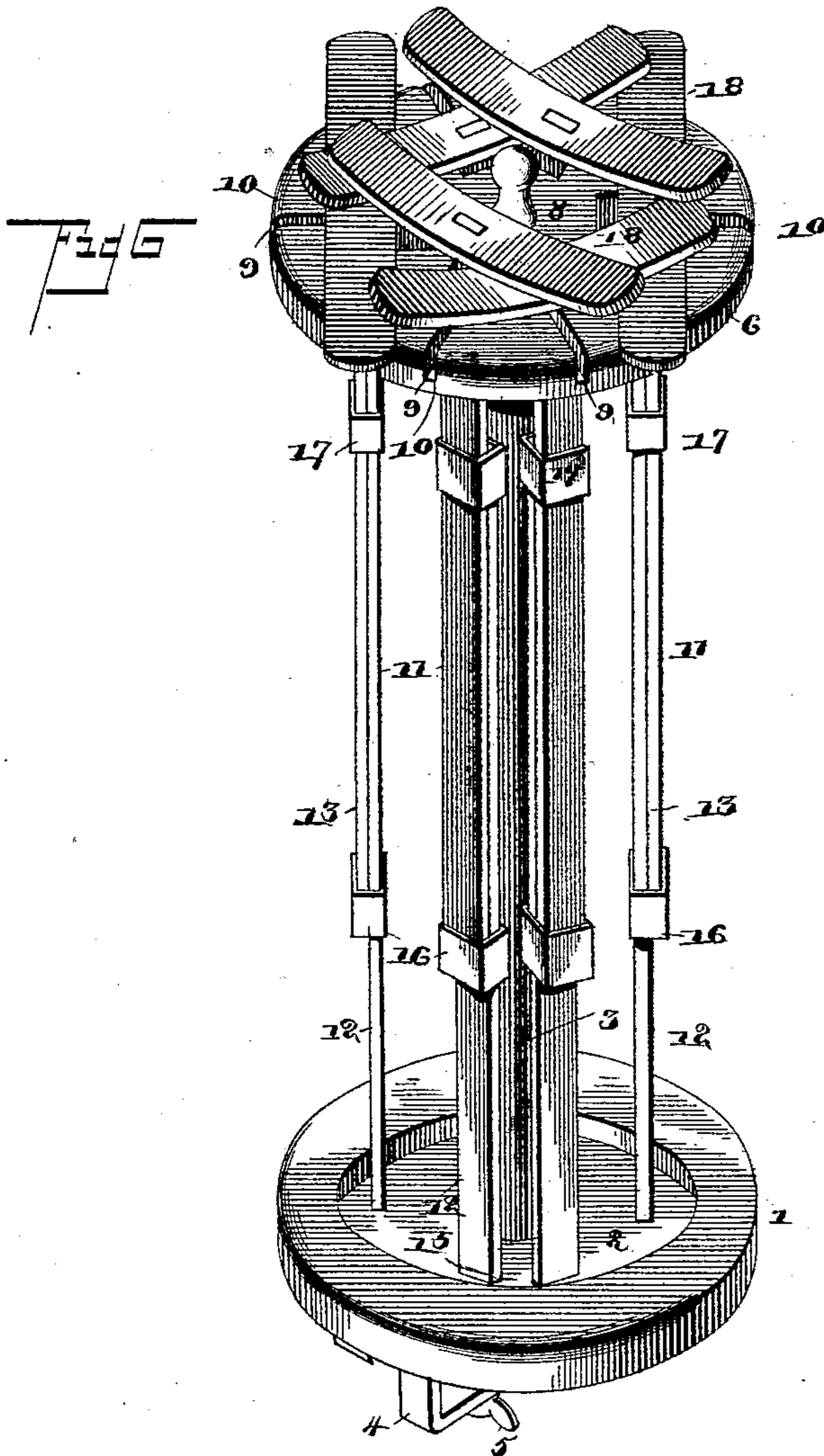
3 Sheets—Sheet 3.

J. A. SHEPARD.

REEL FOR WINDING SKEINS OF YARN, ZEPHYR, &c.

No. 435,460.

Patented Sept. 2, 1890.



Witnesses

Inventor

*John Smilie*  
*E. S. Siggers*

By her Attorneys,

*Jennie A. Shepard.*

*C. A. Snow & Co.*

# UNITED STATES PATENT OFFICE.

JENNIE A. SHEPARD, OF FOSSIL, OREGON.

## REEL FOR WINDING SKEINS OF YARN, ZEPHYR, &c.

SPECIFICATION forming part of Letters Patent No. 435,460, dated September 2, 1890.

Application filed September 26, 1889. Serial No. 325,134. (No model.)

*To all whom it may concern:*

Be it known that I, JENNIE A. SHEPARD, a citizen of the United States, residing at Fossil, in the county of Gilliam and State of Oregon, have invented a new and useful Reel for Winding Skeins of Yarn, Zephyr, &c., of which the following is a specification.

This invention has relation to swifts or reels for winding skeins of yarn, zephyr, &c., and among the objects is to provide a device of the above character adapted to readily clamp to a table or other object, and to be rotated and designed to receive skeins of varying lengths, and also to be capable of a disconnection of the parts, whereby the device may be conveniently packed when not in use.

With the above general objects in view the invention consists in certain features of construction hereinafter specified, and particularly pointed out in the claims.

Referring to the drawings, Figure 1 is a perspective view of a swift or reel constructed in accordance with my invention. Fig. 2 is a detail perspective of one of the arms. Fig. 3 is a detail in transverse section of the revolving head, one of the arms being removed. Figs. 4 and 5 are plans of the head and base, respectively. Fig. 6 is a perspective view representing the reel folded.

Like numerals indicate like parts in all the figures.

The reference-numeral 1 represents the base—in this instance of disk form, the upper surface of the same being provided with a circular countersunk recess 2, from the center of which rises a fixed standard or spindle 3.

An L-shaped clamping-plate 4 is secured to the under surface of the base 1, and is provided near its free end with a perforation, in which is mounted an upwardly-disposed binding-screw 5, by which the base and standard and the remaining portions hereinafter described may be readily applied to and detached from any suitable fixed object, as a shelf, table, &c.

The revolving head 6 is provided with a central perforation 7, through which passes a removable bearing-pin 8, the lower end of the pin terminating in a vertical recess in

the upper end of the standard 3. A series of circularly-disposed openings 9 are formed in the head, each of which terminates in a reduced radial recess 10 in the upper surface of the head, said recess extending to the periphery of the head.

The reel-arms 11 are preferably formed in two sections 12 and 13, the inner section 12 approximating in width the reduced recess 10 and terminating in a tenon 14, designed to enter a socket 15, formed in the wall of each of the openings 9, whereby the reel-arms are removably mounted in position. The outer sections 13 terminate at their inner ends in clips 16, which embrace the inner sections 12, and the outer ends of the inner sections terminate in similar clips 17, which embrace the outer sections, whereby the outer sections are maintained in sliding contact with the inner sections. Each of the outer sections 13 terminates at its outer end in cross-arms 18, preferably slightly concaved upon their outer surfaces.

The reel when mounted in position is adjusted to receive the skein of yarn, zephyr, or other material which encircles the cross-arms thereof. As the material unwinds, the head and arms rotate.

By reason of the extensibility of the reel-arms it is apparent that different sizes of skeins may be accommodated. When not in use, the reel-arms may be withdrawn from the recesses 10 and inserted vertically through the radial openings 9, the lower ends thereof extending into the countersunk circular recess 2 of the base, and for the reception of said tenons and maintenance of the arms in vertical position when so arranged I form in the bottom of the recess 2 a series of perforations 19 for the reception of the tenons.

Having described my invention, what I claim is—

1. In a swift, the combination, with a base having a countersunk circular recess and a series of sockets in the bottom of the recess and a standard extending from the base, of a head mounted at the opposite end of the standard and having a series of openings forming sockets, and removable arms mounted in the sockets and adapted to be received by the circular recess, said arms terminating

in tenons adapted to enter the sockets formed in the bottom of the recess, substantially as specified.

2. The combination of the base having  
5 a clamp and provided with a vertical stand-  
ard having a bearing at its top, a head loosely  
mounted on the bearing, a series of radially-  
extensible arms removably mounted in the  
head, and the latter provided with a series of  
10 circularly-disposed openings 9, each of which  
openings terminates in a reduced recess 10

at one end and at the other end in openings  
for the reception of the tenons at the inner  
ends of the reel-arms, as set forth.

In testimony that I claim the foregoing as  
my own I have hereto affixed my signature in  
presence of two witnesses.

JENNIE A. SHEPARD.

Witnesses:

W. G. SHEPARD,  
H. H. HENDRICKS.