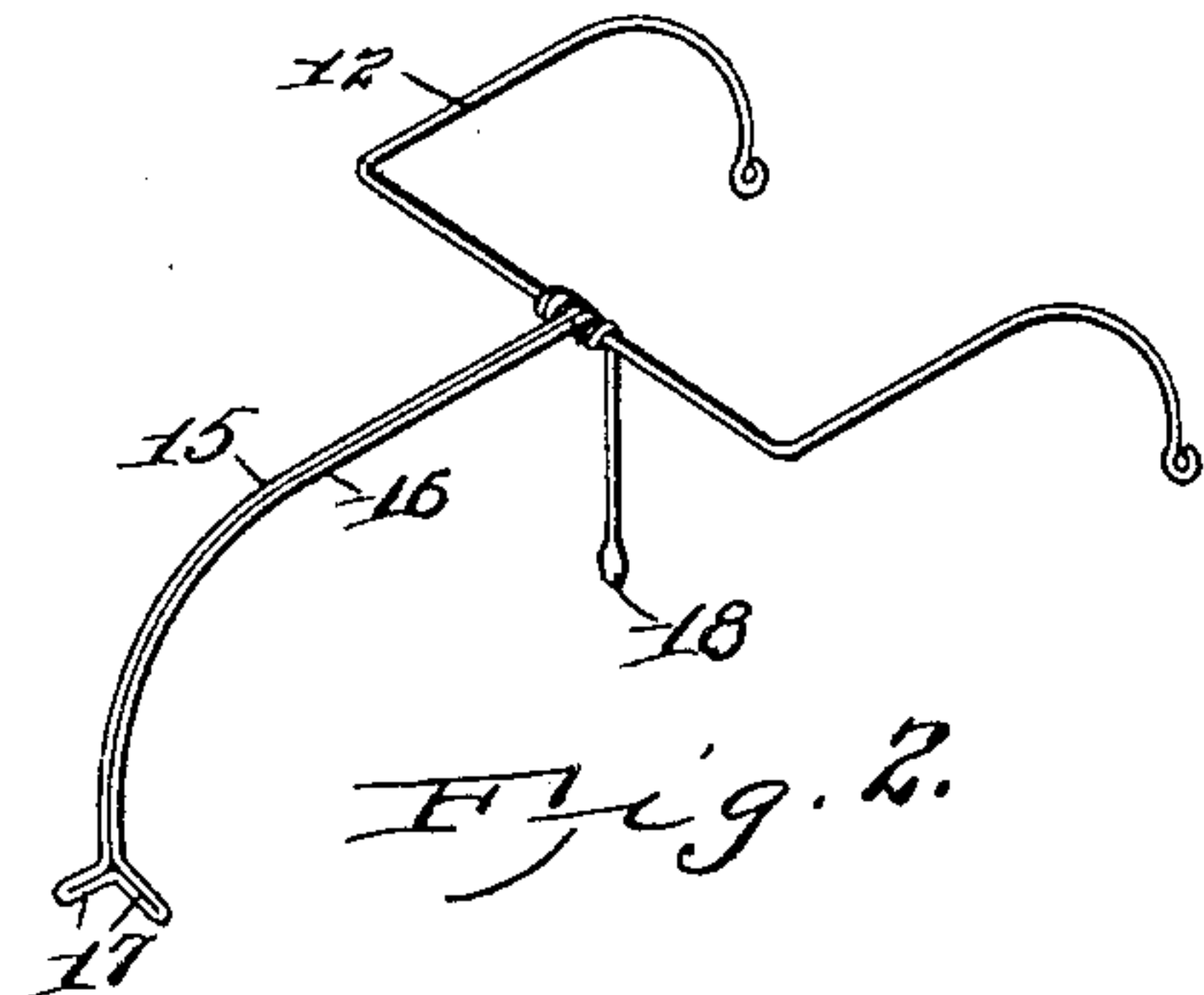
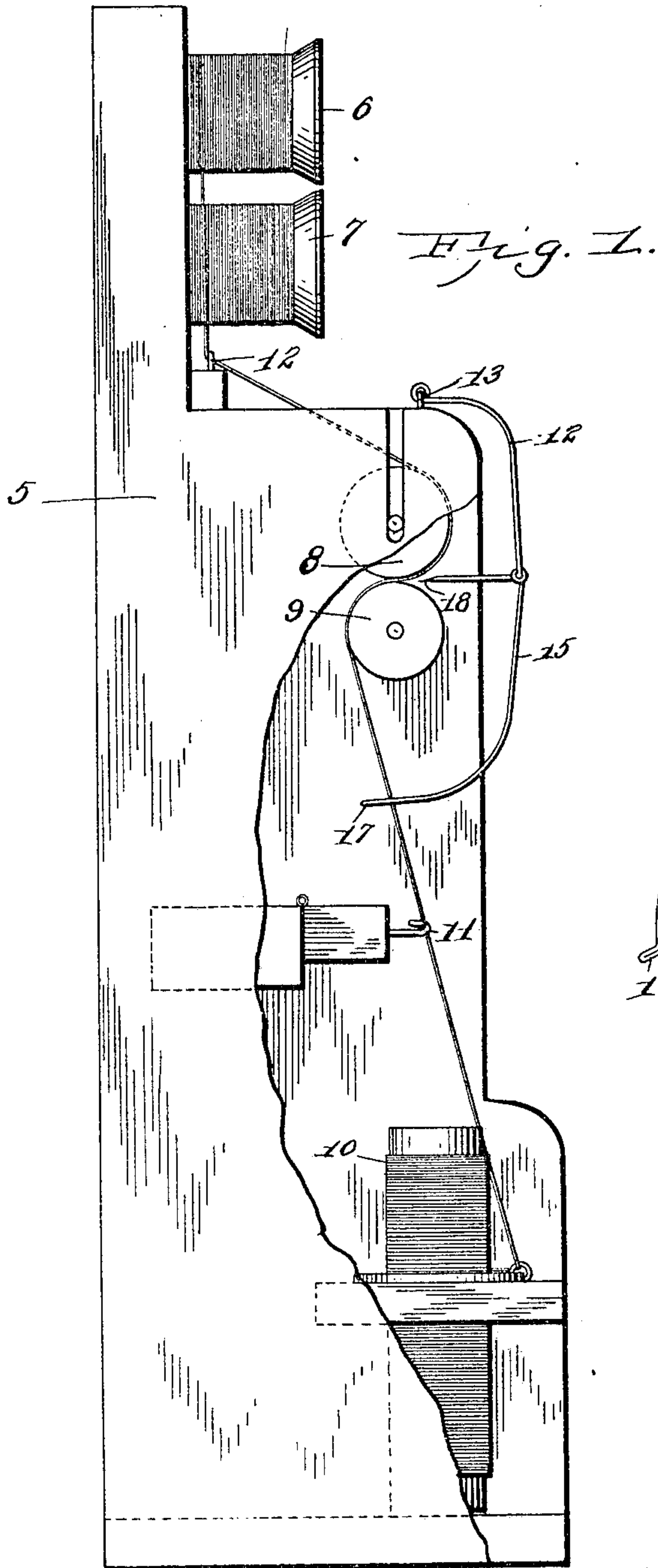


No. 799,185.

PATENTED SEPT. 12, 1905.

J. L. POTTS.  
STOP MOTION FOR YARN TWISTERS.  
APPLICATION FILED JUNE 10, 1904.



Witnesses  
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# UNITED STATES PATENT OFFICE.

JOHN L. POTTS, OF MAIDEN, NORTH CAROLINA.

## STOP-MOTION FOR YARN-TWISTERS.

No. 799,185.

Specification of Letters Patent.

Patented Sept. 12, 1905.

Application filed June 10, 1904. Serial No. 212,004.

*To all whom it may concern:*

Be it known that I, JOHN L. POTTS, a citizen of the United States, residing at Maiden, in the county of Catawba, State of North Carolina, have invented certain new and useful Improvements in Stop-Motions for Yarn-Twisters; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to stop-motions for yarn-twisters; and it has for its object to provide as an article of manufacture an article of this nature which may be formed of wire at a minimum cost and which may be attached to the ordinary twisting-machine for operation for the purpose designed.

In the drawings forming a portion of this specification, and in which like numerals of reference indicate similar parts in the several views, Figure 1 is a side elevation of the stop in position upon a spool-rack, a portion of the side of the rack being broken away to illustrate the positions of the parts. Fig. 2 is a perspective view of the stop.

Referring now to the drawings, there is shown a portion of a yarn-twister, including a frame 5, the upper portion of which carries the spools 6 and 7 and is known as the "spool-rack." In the frame below the spools are mounted the usual rollers 8 and 9, and below these rollers is the spool 10 for the twisted yarn. Between the spool 10 and the roller 9 is a guide-eye 11, and there is also a guide-eye 12 between the spools 6 and 7 and the rollers 8 and 9, so that the yarn passes from the spools through the adjacent guide-eye, then upwardly and over the roller 8, then downwardly between the rollers and under the roller 9, and thence to the eye 11, and finally to the spool 10, the yarn during the twisting operation being taut between the roller 9 and the eye 11.

The stop comprises two wires, one of which is bent into U shape to form what may be called the "base" 12 of the device and comprising the sides and bight portion of the U. The sides of the U-shaped base are bent into arc shape in parallel planes, and their extremities are bent to form eyes which engage staples 13, engaged in the frame. The second wire is bent upon itself to form sides 15 and 16 and a connecting bight portion 17. The bight portion 17 is bent to form a prong, and the sides 15 and 16 lie against the outer faces

of the prong and the angle thereof and then are continued in close contact and are wrapped about the bight portion of the first wire. The side 15 is somewhat longer than the side 16 and is continued away from the bight portion of the first wire and at right angles thereto and terminates in a knife-edge 18. The members 15 and 16 between the bight 17 and the bight of the first wire are bent into arc shape in planes parallel with the planes in which the sides of the base are curved. The stop is so arranged and is of such proportions that the prong rests normally upon the yarn between the roller 8 and the eye 11, with the knife-edge 18 in close relation to the roller 8. Should the yarn break, the unsupported end of the device will drop, so that the knife-edge will swing into engagement with the roller 8 and hold the latter against rotation, thus stopping the feed of the yarn.

It will be understood that in practice modifications of the specific construction shown may be made, and any suitable materials and proportions may be used for the various parts without departing from the spirit of the invention.

It will be noted that the device may be said to comprise a stem having a forked base at one end, which is pivoted to the sides of the frame, and having at its opposite end a forked head, the base adjacent to the stem having a finger to engage the roll.

What is claimed is—

As an article of manufacture, a stop device consisting of two wires one of which is bent into U shape with its sides curved in parallel planes and having terminal eyes bent therein, the other wire being bent upon itself to form two sides and a connecting bight portion, the bight portion being bent into prong shape and the sides of the wire lying against the bight portion and extending from the bight portion in close contact and in arc shape in a plane parallel with the plane of curvature of the sides of the first wire, the sides of the second wire being wrapped around the bight portion of the first wire and one side of the second wire projecting at right angles away from the bight portion of the first wire.

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

JOHN L. POTTS.

Witnesses:

L. A. CARPENTER,  
J. C. HEFNER.