

No. 694,568.

Patented Mar. 4, 1902.

J. W. McCARTHY, Dec'd.

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YARN OR THREAD GUIDE FOR SPINNING MACHINES.

(Application filed Jan. 3, 1901.)

(No Model.)

Fig. 1.

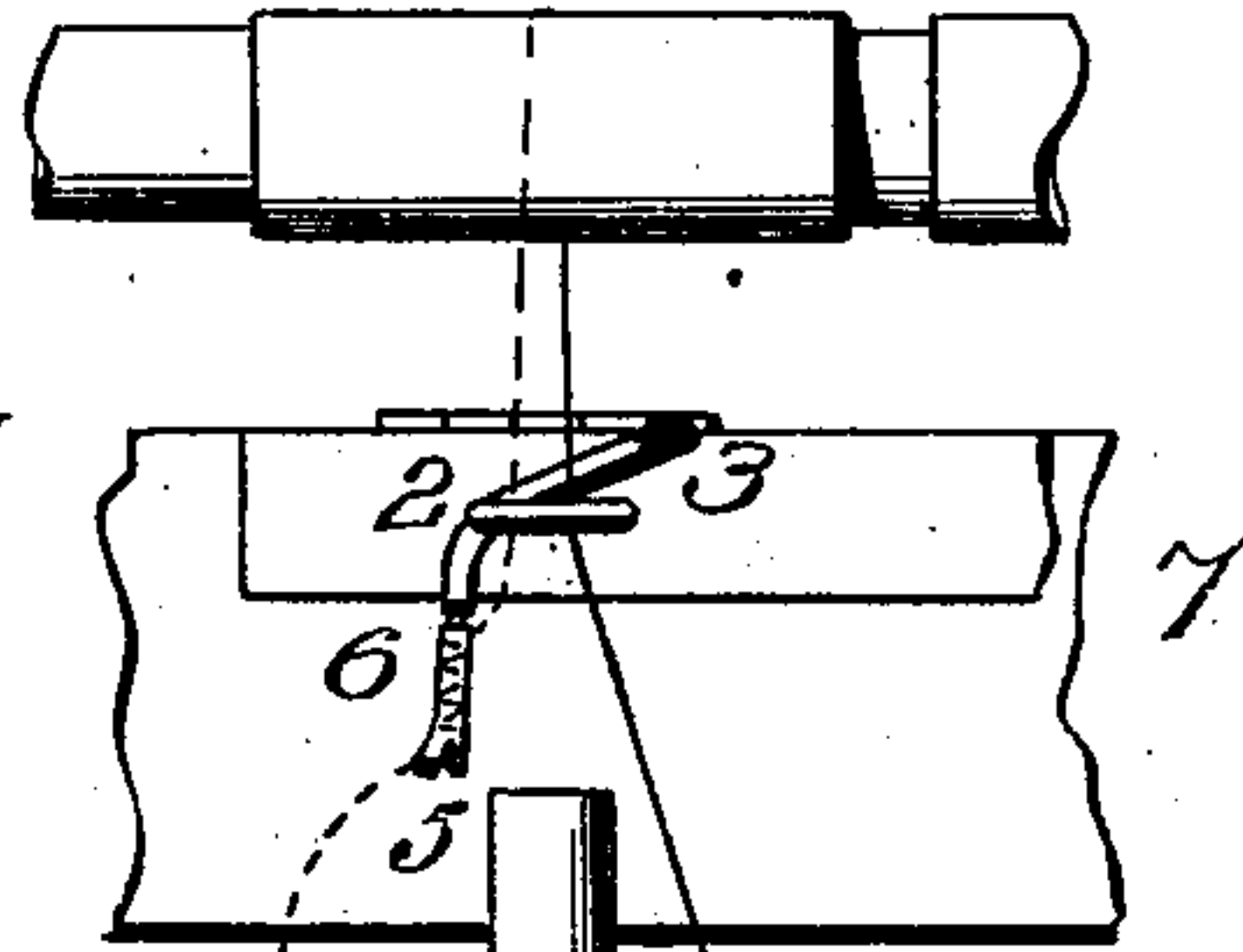


Fig. 2.

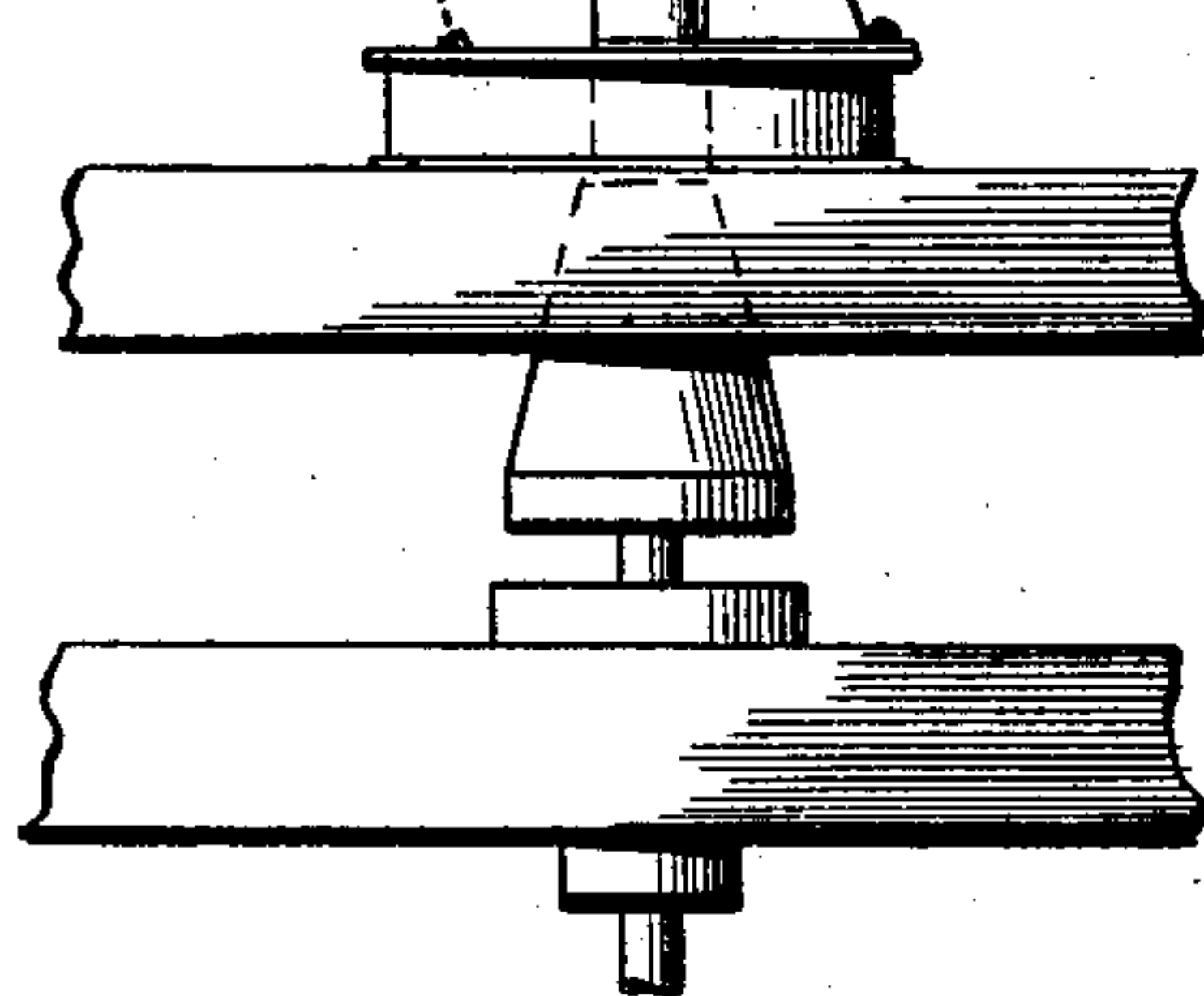


Fig. 3.

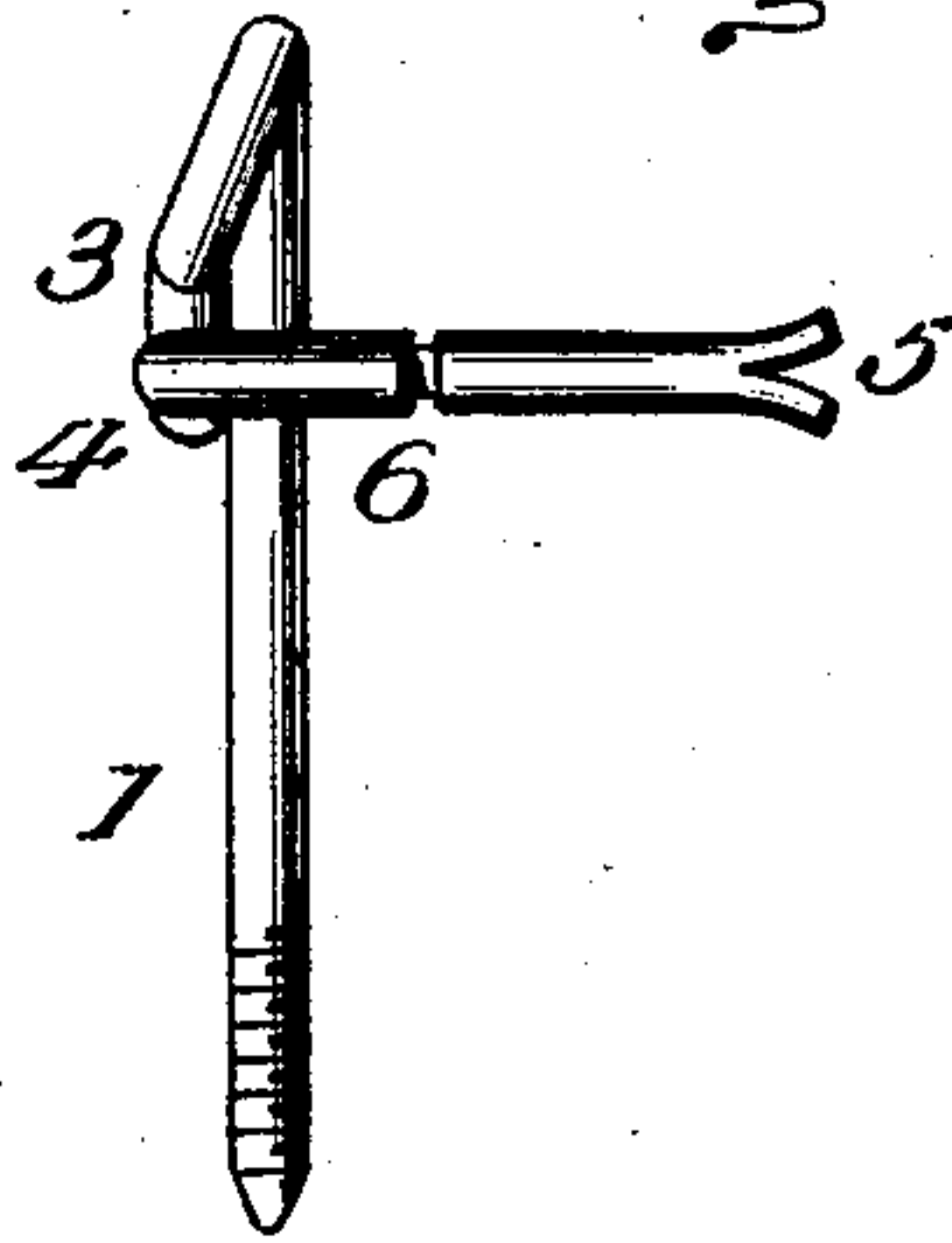
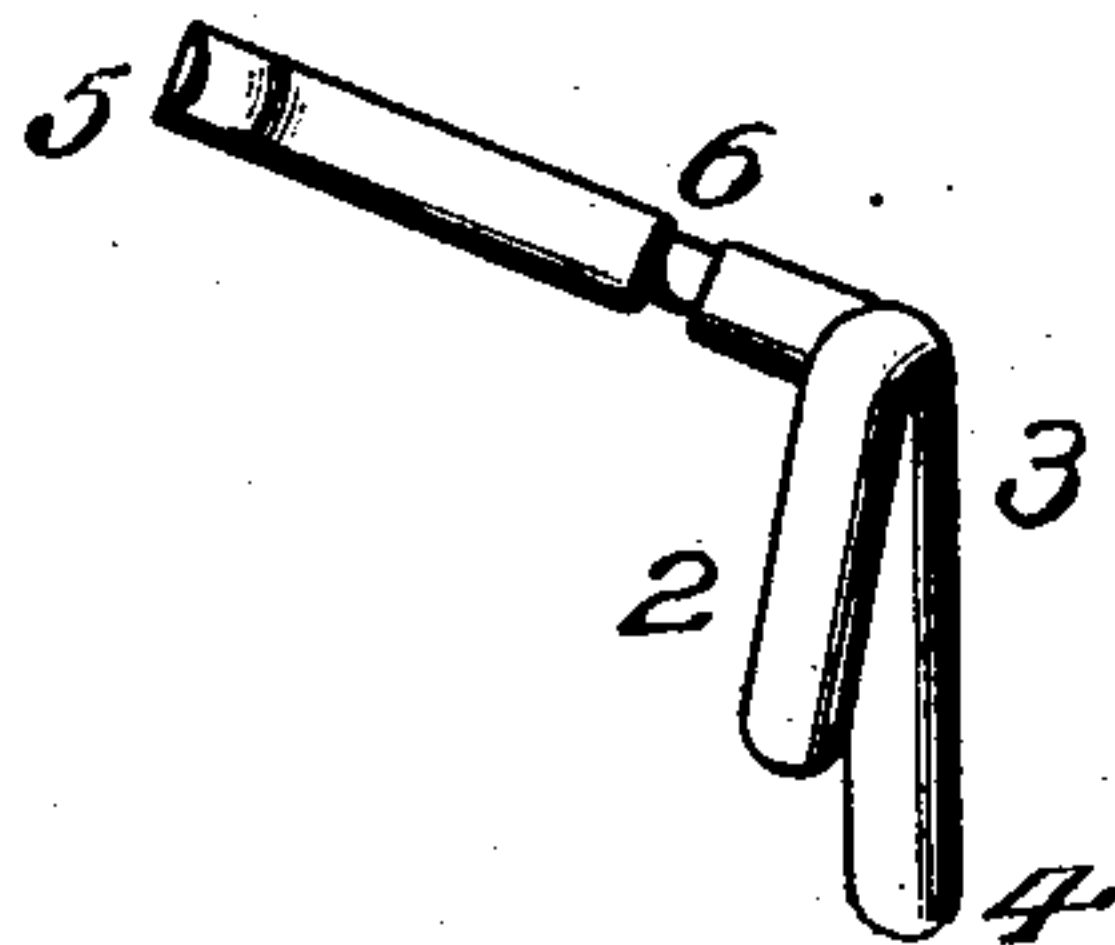


Fig. 4.



Witnesses

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UNITED STATES PATENT OFFICE.

JAMES W. MCCARTHY, OF NEW BEDFORD, MASSACHUSETTS; SAMUEL F. WINSER ADMINISTRATOR OF SAID MCCARTHY, DECEASED.

YARN OR THREAD GUIDE FOR SPINNING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 694,568, dated March 4, 1902.

Application filed January 3, 1901. Serial No. 42,007. (No model.)

To all whom it may concern:

Be it known that I, JAMES W. MCCARTHY, of New Bedford, in the county of Bristol and State of Massachusetts, have invented certain new and useful Improvements in Yarn or Thread Guides for Spinning-Machines; 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 yarn or thread guides for spinning-machines.

The object of the invention is to provide an improved, simple, and inexpensive device of this character having in addition to a guide for the thread or yarn a kink-catcher arranged relatively to the guide in such manner that it will positively and effectively catch and obstruct the passage of kinks or snarls in the yarn or thread.

The invention will be hereinafter fully set forth, and particularly pointed out in the claims.

In the accompanying drawing, Figure 1 is a front elevation of a portion of a spinning-frame, showing the position of the device and its relation to the yarn being spun. The full-line position of the yarn is that assumed under normal conditions, while the dotted line shows the yarn when broken or kinked and engaged by the kink-catcher. Figs. 2, 3, and 4 are detail views of the device detached.

Referring to the drawing, 1 designates the straight portion of the guide, which, as usual in this class of inventions, is formed from a single strong wire. This rod is exteriorly threaded, so as to be screwed into the wire-board or guide-board 7, of ordinary construction. At the outer end of the straight portion the wire is bent or rounded to form an eye 2, constituting a guide through which the cotton yarn or thread is designed to be passed. The wire rod is then carried beyond the straight portion 1, and is then bent back upon itself at 3 and again carried to the other side of said straight portion, and thence outwardly, terminating in an arm 4, constituting a kink-catcher. This arm is provided at its outer end with a prong 5 and at a point near its inner end with a circular recess 6. By thus bending the wire rod to one side of the straight portion thereof and thence back upon itself the guide-eye and the kink-catch-

ing arm are located on the same side of the device.

As is well known in this art, the yarn being wound upon the bobbin frequently becomes kinked and, failing to pass through the traveler as it is fed down from the rollers, will "bow" out between the guide-eye and the traveler, frequently interfering with the operation of adjacent spools. To avoid this, various kink-catchers have been devised, so arranged relatively to the guide-eye that they will catch the loose thread and break it. In ring-spinning it is common to so revolve the spindle that the thread being carried by the traveler will move in circles from left to right, or, in other words, in the direction of the movement of the hands of a clock. All the thread-guides with which I am familiar have the kink-catcher so arranged relatively to the guide-eye that the former is on the right-hand side of the circle and usually upon the opposite side of the straight portion of the device from that on which such guide-eye is located.

I claim as my invention—

1. A yarn or thread guide and catcher consisting of a wire rod having a straight portion, an eye acting as a guide, and an arm acting as a kink-catcher, said eye and arm being on the same side of the straight portion, as set forth.

2. A yarn or thread guide and catcher consisting of a wire rod having a straight portion and bent to form a guide-eye at one side and bent back upon itself at the opposite side of said straight portion and terminating in an arm formed with a prong in its end, said eye and arm being on the same side of the straight portion, as set forth.

3. A yarn or thread guide and catcher consisting of a wire rod having a straight portion bent to form an eye at one side of said straight portion and extended to the opposite side thereof and then back upon itself, terminating in an arm having a prong in its outer end and a circular recess near its inner end, substantially as set forth.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

JAMES W. MCCARTHY.

Witnesses:

THOS. F. GLENNON,
LOUIS W. CUDDY.