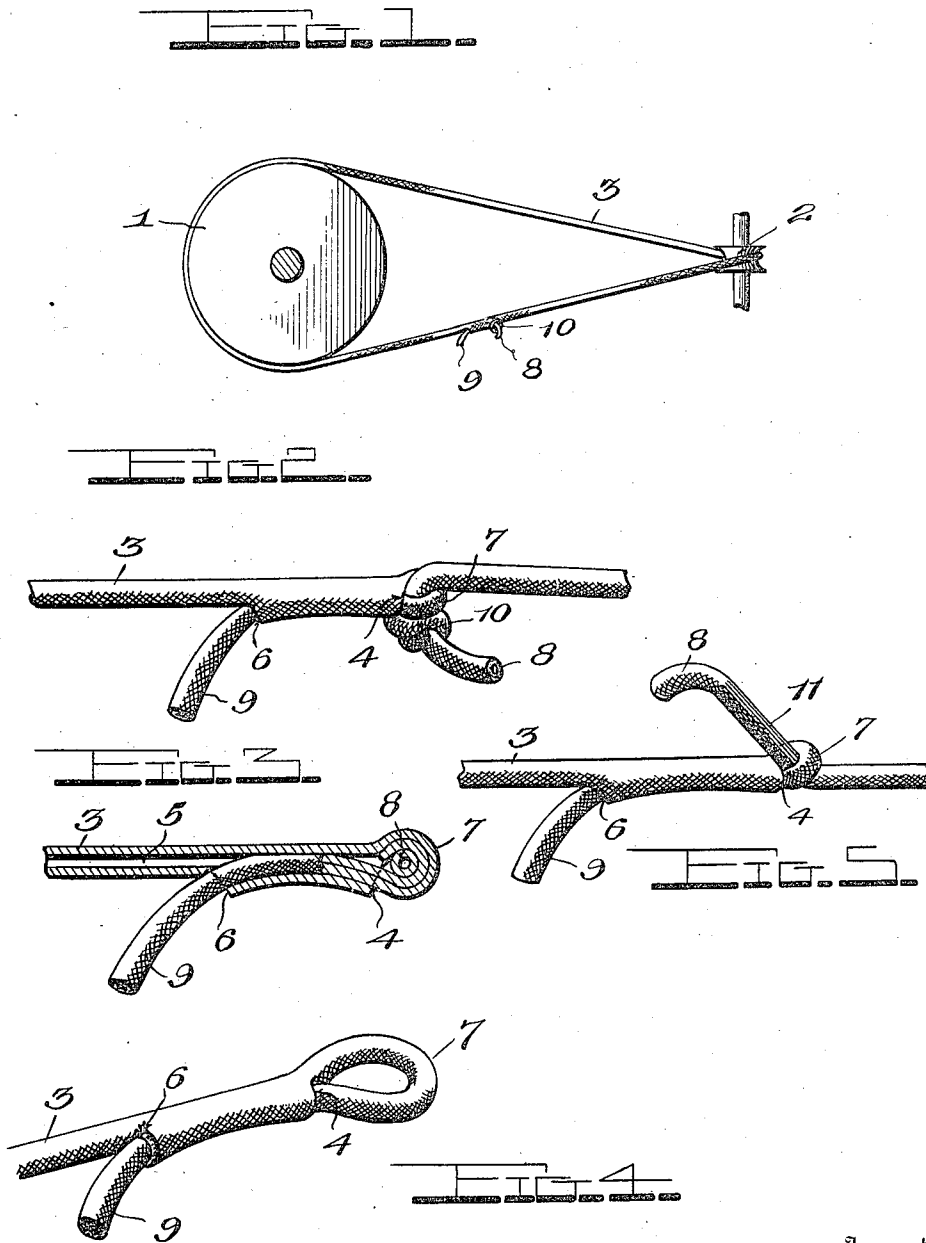


J. P. O'CONNELL.
SPINNING MACHINE BAND.
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1,243,337.

Patented Oct. 16, 1917.



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JAMES P. O'CONNELL, OF CROMPTON, RHODE ISLAND.

SPINNING-MACHINE BAND.

1,243,337.

Specification of Letters Patent.

Patented Oct. 16, 1917.

Application filed March 24, 1917. Serial No. 157,250.

To all whom it may concern:

Be it known that I, JAMES P. O'CONNELL, a citizen of the United States, residing at Crompton, in the county of Kent and State of Rhode Island, have invented a new and useful Improvement in Spinning-Machine Bands, of which the following is a specification.

This invention relates to certain new and useful improvements in spinning machine bands, and it has for an object to provide an improved band of braided material having a novel and efficient means of connecting the two ends thereof together so that the same will not become loosened or disconnected through the continual wear and strain to which the bands are usually subjected.

The invention consists in a braided band having one end turned back and passed through the braiding to form a loop through which the opposite end is threaded or passed, the latter end being provided with a knot or hardened part in such manner as to form a stop on an attempted withdrawal of said second end. By reason of the first end being turned back and passed through the braiding, the more pull or strain placed on the band the tighter said end will be gripped and held by the braid.

In the drawings—

Figure 1 is a view showing the application of the improved band as constituting the driving connection between two pulleys of a spinning machine.

Fig. 2 is an enlarged elevation of the connection or joint between the ends of the band, which connection or joint constitutes the subject matter of the present invention.

Fig. 3 is a longitudinal section through the looped end of the band showing the free end embraced thereby.

Fig. 4 is a perspective view of the looped end.

Fig. 5 shows a further embodiment of the invention.

Referring more in detail to the drawing, the numeral 1 designates the large drive cylinder or pulley of a spinning machine, and 2 the vertical bobbin spindle pulley which is driven by the former through the spinning band 3 constituting the present invention.

This band is made from a tubular braided cord and has one end turned back and inserted through the side of the cord or band

as at 4, into the hollow center 5 thereof. The end is then extended or drawn through this hollowed cord body a short distance and then caused to emerge therefrom through the side, as at 6. This construction forms a loop 7 through which the opposite end 8 of the cord or band is passed.

By reason of the fact that the band is made in tubular and braided form, the band is given a certain amount of elasticity and, when subjected to a pull, will contract about the turned back end 9 and hold the latter from slipping through the side openings 4 and 6. The harder the pull the tighter said end 9 will be gripped and held, although when the band is free from tension the end may be withdrawn to enlarge the loop, or pulled to decrease the size of the loop by grasping the protruding end. It is then apparent that when the loop has been tightened about the end 8, it will thus remain in close embrace with the free end regardless of the strain imposed on the band.

The flexible nature of the band will permit the free end to be tightly contracted by the loop, and to assure a further gripping action between the loop and the free end the latter is formed with an enlargement, either in the form of a knot or a hardened part 11, Fig. 5, which serves to angularly relate the free end relative to the loop.

The knot or hardened part, when pulled or tensioned, provides a twist which increases the frictional gripping action between the loop and the free end.

This connection does not require extra parts, either of a metallic nature or otherwise, being integral throughout, and affords an efficient and practical joint between the ends of the band which may be easily and quickly adjusted, disconnected and connected without the use of tools.

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

1. A pulley band comprising a tubular braided cord having one end turned back and passed through the braiding to form a loop, the opposite end portion of the cord being passed through the loop thus formed from one side and provided with a stop part for engaging the opposite side of the loop.

2. A pulley band comprising a tubular braided cord adapted to contract when subjected to a strain, and having one end turned

back and passed through the cord to provide a loop for receiving the opposite end, the latter having a hardened portion constituting a stop for holding said opposite end
5 against withdrawal from the loop.

3. A pulley band comprising a tubular braided cord possessing a certain degree of elasticity, and contractibility when subjected to a strain, one end of the cord being
10 turned back and passed longitudinally through a portion of the body of the cord to provide a loop adapted to receive the opposite end, and a stop part on the latter

of a size in excess to the minimum diameter to which the cord is contractible for abutting the loop and thereby holding said opposite end against unauthorized withdrawal therefrom.

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

JAMES P. O'CONNELL.

Witnesses:

CORNELIUS CUMMISKEY,
JAMES E. CUMMISKEY.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents,
Washington, D. C."