(No Model.)

R. A. TILGHMAN.

WIRE ROPE.

No. 370,221. Patented Sept. 20, 1887.

Fig. 1.

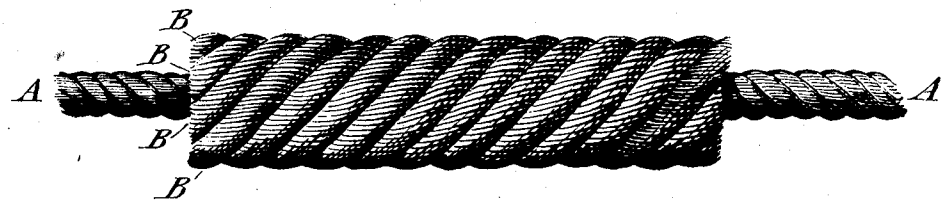
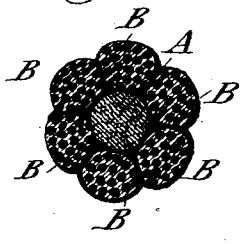


Fig. 2.



WITNESSES:

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UNITED STATES PATENT OFFICE.

RICHARD A. TILGHMAN, OF PHILADELPHIA, PENNSYLVANIA.

WIRE ROPE.

SPECIFICATION forming part of Letters Patent No. 370,221, dated September 20, 1887.

Application filed November 27, 1886. Serial No. 220,013. (No specimens.)

To all whom it may concern:

Be it known that I, RICHARD A. TILGHMAN, of Philadelphia, State of Pennsylvania, have invented a new and useful Improvement in Wire Rope, of which the following is a true and exact description, due reference being had to the accompanying drawings, which form part hereof.

In wire rope as ordinarily constructed it is found advisable to use a central strand or core of a fibrous elastic material around which the strands of wire are twisted, and as heretofore used these central strands or cores have been made of hemp or some similar elastic fiber, the destructible and combustible nature of which made it impossible to anneal the wire rope after its manufacture.

The object of my invention is to construct a wire rope which, while having the advantages due to the use of a fibrous elastic core, may also be annealed either immediately after being finished or at any other time, when by reason of use the wire may have become more brittle than is safe or desirable. This I accomplish by constructing my improved wire rope as follows: I first make a central strand or core of asbestus or other fibrous elastic and sufficiently-infusible material, and cause the wire strands to be wound upon it in the usual manner.

Reference being now had to the drawings, which show a section of a wire rope made in accordance with my invention, Figure 1 is a side view of my improved rope with the central core prolonged, and Fig. 2 a cross-section of the rope.

A is the central fibrous core, of asbestus or similar material.

B B, &c., are the wire strands, which are wound around the core A in the usual way.

It is of course evident that, if desired, the wire composing the strands themselves may be also wound upon a core of fibrous incombustible and infusible material.

As before mentioned, the rope made in accordance with my invention may be annealed at any time when it is desirable.

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

As a new article of manufacture, an annealable wire rope having a core of asbestus or other fibrous infusible and incombustible material.

R. A. TILGHMAN.

Witnesses:
G. J. HARDING,
JOSHUA MATLACK, Jr.