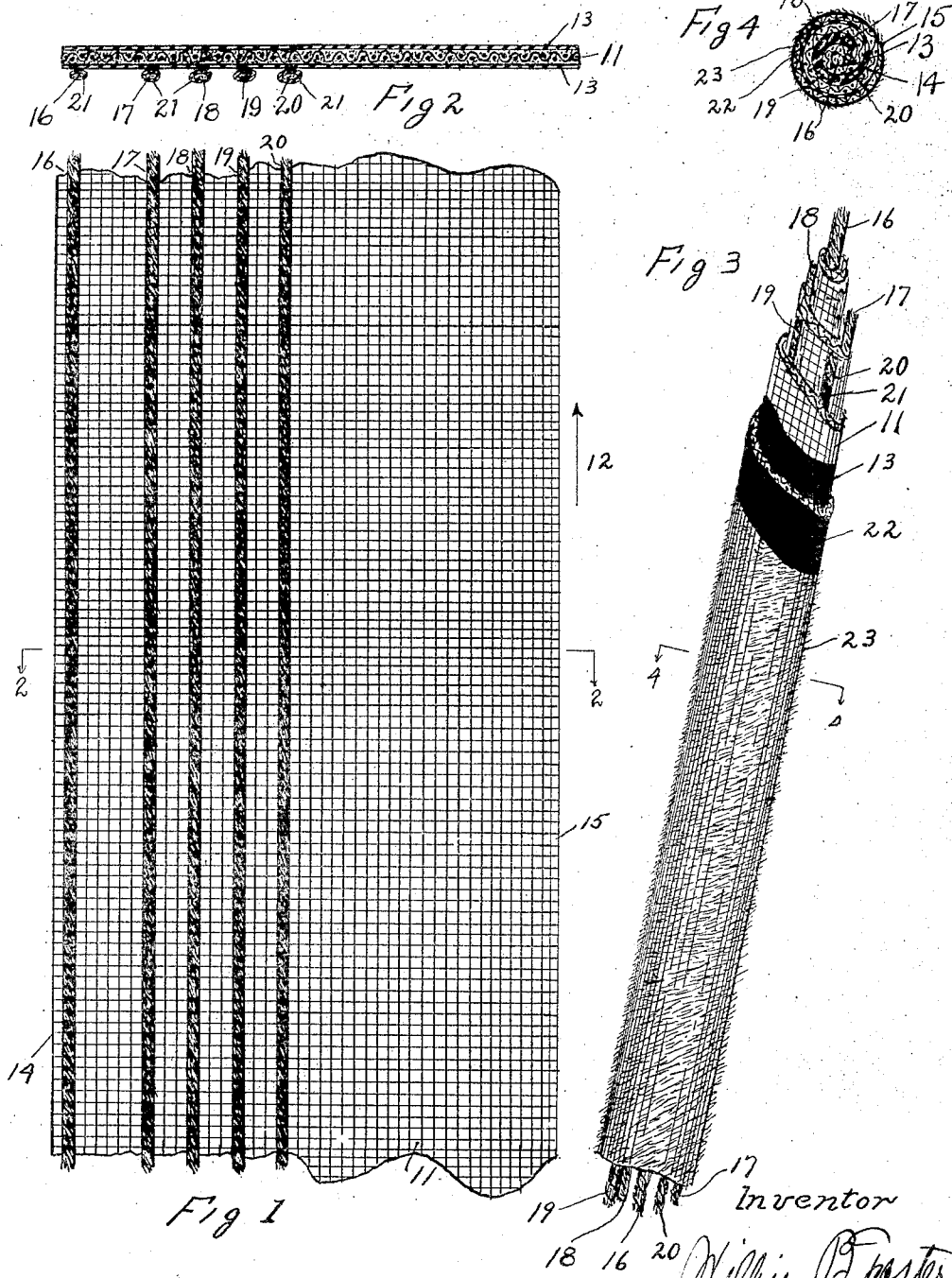


W. B. FOSTER.
BELTING.

APPLICATION FILED APR. 1, 1918. RENEWED NOV. 28, 1919.

1,332,390.

Patented Mar. 2, 1920.



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UNITED STATES PATENT OFFICE.

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BELTING.

1,332,390.

Specification of Letters Patent.

Patented Mar. 2, 1920.

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To all whom it may concern:

Be it known that I, WILLIAM B. FOSTER, a citizen of the United States, residing at Norwood, in the county of Hamilton and State of Ohio, have invented certain new and useful Improvements in Belting, of which the following is a specification.

My invention relates particularly to round belting. It is the object of my invention to provide a round belt formed of rolled textile material and having reinforcing cords extending lengthwise of the belt embedded therein; and, further, to provide a round belting with an outer coating of leather.

The invention will be further readily understood from the following description and claims, and from the drawing, in which latter:

Figure 1 is a plan view of a strip of textile material, having reinforcing cords laid thereon lengthwise of the strip, preparatory to rolling the same.

Fig. 2 is a cross-section of the same, taken on the line 2—2 of Fig. 1.

Fig. 3 is a perspective view of the finished belting, partly broken away, for better illustration of its parts; and,

Fig. 4 is a cross-section of the belting, taken on the line 4—4 of Fig. 3.

The belting is shown enlarged in the drawing. My improved belting is capable of being made of very small diameter.

11 represents a strip of textile material, for instance, canvas or duck. The strip extends lengthwise in the direction of the arrow 12. The strip is suitably coated, preferably on both sides thereof, by means of a coating 13 of a binding material, for instance, unvulcanized rubber. The strip of textile material is arranged to be rolled from one edge thereof to the other edge thereof, the rolling beginning, for instance, at the edge 14, which thereby becomes the inner edge of the strip when rolled into the belting, the rolling proceeding to the other edge 15 of the strip.

Cords are embedded in the belting while it is being rolled and may, for instance, be laid upon the strip at suitable positions for determining the location of the cords inside the belting when finished. Thus the cord 16 may extend substantially coincident with the inner edge 14 of the strip, and the cords 17, 18, 19 and 20, be located at distances from each other, the cords extending lengthwise

of the strip and parallel with its edges. The cords 17, 18, 19 and 20 are preferably spaced from the cord 16 a greater distance than the spaces between proximate ones of said cords 17, 18, 19 and 20. The cords are preferably composed of a fabric or fibers, and may be provided with a coating 21 of the binder. The strip and cords may be of indefinite lengths.

The material is rolled so that one of the cords is located in the center of the belting and the others of the cords are arranged around the center. The cords are for the purpose of reinforcing the belting, that is to say, preventing lengthwise stretching of the belting. The rolling preferably takes place on an axis which is parallel with the strip.

The outside of the rolled strip of textile material is provided with a coating 22, which may be similar to the binding material of the coatings 13. If both sides of the strip are initially coated with the coating 13, the outer portion of one of the coatings 13 may constitute the coating 22. The binder coating 22 is provided with a coating of leather, exemplified as a coating 23 of leather flock. This leather coating is applied to the rolled strip in suitable manner, as by passing the coated rolled strip through a mass of leather flock or by sprinkling the leather flock on the same.

The binder is then suitably hardened, this hardening, in case the binder is a rubber or rubber composition, being accomplished by a vulcanizing of the same.

The leather coating or coating of leather flock, acts to prevent slippage of the belt on the pulley, and furthermore, gives the belting the advantage of having the appearance of leather belting. The leather flock enhances the tractive value of the belting and acts as a friction medium between the belting and the driving or driven part with which the belting engages, for instance, a grooved pulley.

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

1. A rolled belting comprising a strip of textile material rolled about the lengthwise axis of the belting, an interior reinforcing cord, and a coating of leather material.

2. A rolled belting comprising a rolled strip of textile material having a plurality

of reinforcing cords in the interior thereof extending lengthwise of the belting, and a binder binding together the proximate faces of said strip and said cords.

- 5 3. A rolled belting comprising a rolled strip of textile material having a plurality of reinforcing cords in the interior thereof extending lengthwise of the belting, a binder binding together the proximate faces of said
10 strip and said cords, a binder surrounding said rolled strip of textile material, and

leather flock secured to said rolled strip by means of said last-named binder and forming an outer coating of leather on said rolled belting.

In testimony whereof, I have hereunto signed my name in the presence of two subscribing witnesses.

WILLIAM B. FOSTER.

Witnesses:

JAMES J. FITZPATRICK,
THERESA M. SILBER.