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C. A. TURNER

ROPE OR CORD

Filed April 7, 1926

Fig-1.

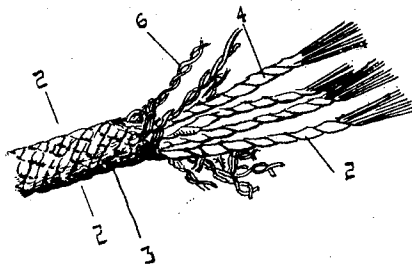


Fig-2.

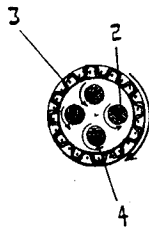
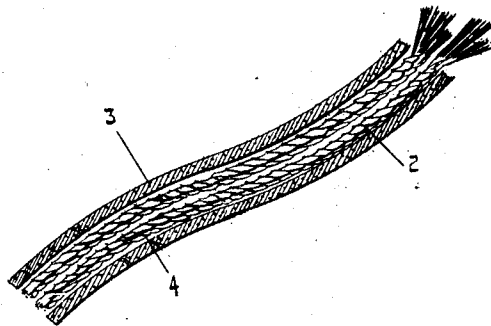


Fig-3.



Claude A. Turner
INVENTOR
BY ATTORNEY
William D. West

UNITED STATES PATENT OFFICE.

CLAUDE A. TURNER, OF SHERBROOKE, QUEBEC, CANADA.

ROPE OR CORD.

Application filed April 7, 1926. Serial No. 100,243.

My invention relates to rope or cord of the type having a core of a comparatively cheap fibrous material such as manila, sisal, jute or the like and a cover enclosing the core and consisting of a more expensive braided material such as cotton.

The object of the invention is to provide a new and improved rope or cord of this type which possesses greater tensile strength, has less tendency to shrink or kink and may be more economically manufactured than rope or cord of this type heretofore known.

To this end my invention consists broadly stated of a rope consisting of a plurality of strands separate and distinct from each other and disposed in relatively straight parallel arrangement and a braided cover, the strands being formed of long fibres twisted helically and the strands being grouped together with the twist of the fibres of each strand in the same direction as the fibres of the adjoining strands.

For full comprehension, however, of my invention, reference must be had to the accompanying drawings in which similar reference characters indicate the same parts, and wherein:

Figure 1 is a fragmentary perspective view of a rope or cord made according to my invention;

Figure 2 is a transverse sectional view taken on line 2—2 Figure 1; and

Figure 3 is a longitudinal sectional view of a section of my improved rope and illustrating particularly the arrangement of the strands of the core.

The accompanying drawings illustrate the preferred embodiment of my invention. This embodiment consists of an axial core 2 enclosed within a braided cover 3 the latter snugly fitting around the core and coacting therewith in presenting a solid cross-section.

The core is preferably made of manila, sisal or jute and consists of a plurality of strands, four being illustrated, as at 4, disposed in straight parallel arrangement throughout the rope, the fibers of the individual strands being twisted helically in

the same direction. The arrangement of the fibers is believed to be the most practicable for the reason that the twist of the fibers of each strand being in the same direction as the twist of the fibers of adjoining strands, any tendency to untwist is counteracted and consequently the core is maintained at its original strength.

The cover 3 comprises a plurality of braided cotton threads 6 all of which extend helically around the core in snug engagement therewith and the direction of the helix is the reverse of the direction in which the strands of the core are twisted, and also counteracts any tendency to untwist.

The foregoing construction provides a rope which owing to the use of a core of a cheap fibrous material it may be manufactured at a comparatively low cost, and, owing to their straight line arrangement, the strands of the core possess relatively great tensile strength and permit the use of a greater number of strands in a cord of a given diameter than would be possible if the strands of the core were twisted around one another.

Actual tests of my improved rope have shown that it has a relatively greater breaking strength and less shrinkage.

My improved cord may be waterproofed by soaking it in molten paraffin for a sufficient time to effect complete impregnation of the cover and core.

What I claim is as follows:

A rope consisting of a fibrous core composed of a plurality of separate and distinct strands individually twisted and disposed in straight parallel engagement and in close contact forming a unitary untwisted core, and a cover embracing the unitary core and consisting of braided strands in spiral arrangement around the core and extending in the same spiral direction as the twisted individual strands of the core, and at a wider angle to the said strands of the core.

In testimony whereof I have signed my name to this specification.

CLAUDE A. TURNER.