

1,076,759.

T. GORE.
CABLE.
APPLICATION FILED JAN. 13, 1911.

Patented Oct. 28, 1913

Fig. 1

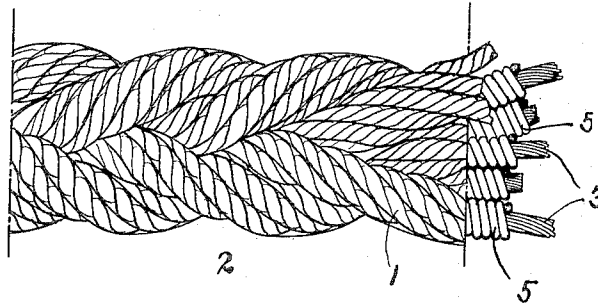


Fig. 2.

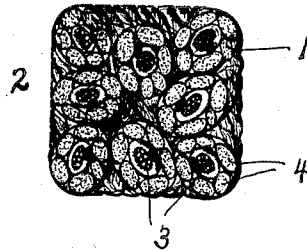


Fig. 3.

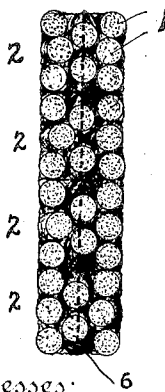
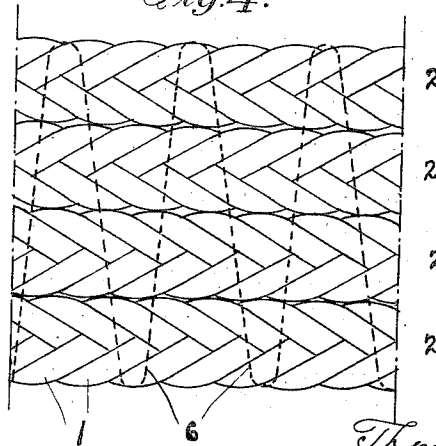


Fig. 4.



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UNITED STATES PATENT OFFICE.

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CABLE.

1,076,759.

Specification of Letters Patent.

Patented Oct. 28, 1913.

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To all whom it may concern:

Be it known that I, THOMAS GORE, a citizen of the United States, and a resident of the borough of Brooklyn, in the county of Kings and State of New York, have invented certain new and useful Improvements in Cables, of which the following is a specification.

The invention relates particularly to cables for drilling wells.

In drilling work, a long cable is employed and this cable is raised and lowered by a rocking beam or similar contrivance, so that the tool carried on the end of the cable, will, by its impact, cut its way through the material being bored. Twisted strand cables are usually employed for this purpose. One serious objection to these twisted strand cables is that when a strand breaks, or when the rope itself breaks, as quite frequently happens, the broken strand or strands will fray out or unravel, and usually choke up the hole.

My invention aims to overcome this very serious objection.

Accordingly my invention consists preferably of a stranded cable in which the strands are braided together and so interlocked that even though a strand should be broken, the broken ends will be still held interlocked and so prevented from fraying or unraveling. And on account of this interlocking or interweaving of the strands, should the rope break, the strands will still be held and prevented from becoming frayed to any appreciable extent. The strands are made up of suitable yarn such as hemp, manila, or the like, and each strand is preferably provided with a suitable core. This core may be in the form of a wire, or of a plurality of wires united in some way, as by twisting, and the core may in some cases be surrounded by a fibrous wrapping such as marlin.

In its preferred form the cable is braided so as to be angular in cross-section—usually square. This is a decided advantage, as greater wearing surface is provided than in the usual round cable.

Various other features of the invention will appear as the specification proceeds.

In the accompanying drawings are illustrated several preferred embodiments of the invention but various changes and modifications may be made therein without departing from the spirit and scope of the invention.

In the drawings: Figure 1 is a view in elevation of a portion of a rope or cable embodying my invention. Fig. 2 is a cross-sectional view of the same. Fig. 3 is a like view of another form of the invention, and Fig. 4 is a broken elevation of the rope shown in Fig. 3.

Like reference characters refer to like parts throughout the several views.

As clearly shown in the various views, the strands 1 are braided or plaited together into a homogeneous cable 2. The number of strands may of course vary to suit different conditions and requirements, but they are preferably laid together so as to interlock and form a rope substantially square in cross section, as seen in Fig. 2.

The individual strands are preferably made up of twisted yarn, and are preferably each provided with a core. This core may and preferably does consist of a plurality of twisted wires 3 over which the covering of yarn 4, is placed, preferably by twisting. Immediately surrounding the wire core there may be placed a spiral wrapping 5 of fibrous material, such as marlin.

The individual strands or the cable itself may be treated to render it waterproof or to give it other desired qualities.

My invention is capable of being made up into flat rope with great advantage for a much greater wearing surface is thereby provided than in the ordinary style of flat rope which is made up of a plurality of round ropes. Figs. 3 and 4 illustrate a flat rope made up in accordance with my invention, the same consisting of a plurality of square braided ropes laid together side by side, and secured so as by means of stitching 6.

What is claimed, is:

A cable comprising a plurality of strands braided together, each of said strands consisting of a core of twisted wires surrounded
5 by a spiral wrapping and an outer covering of twisted yarn.

Signed at New York city in the county

of New York and State of New York this
12th day of January A. D. 1911.

THOMAS GORE.

Witnesses:

AXEL V. BEEKEN,
LAURA E. SMITH.