

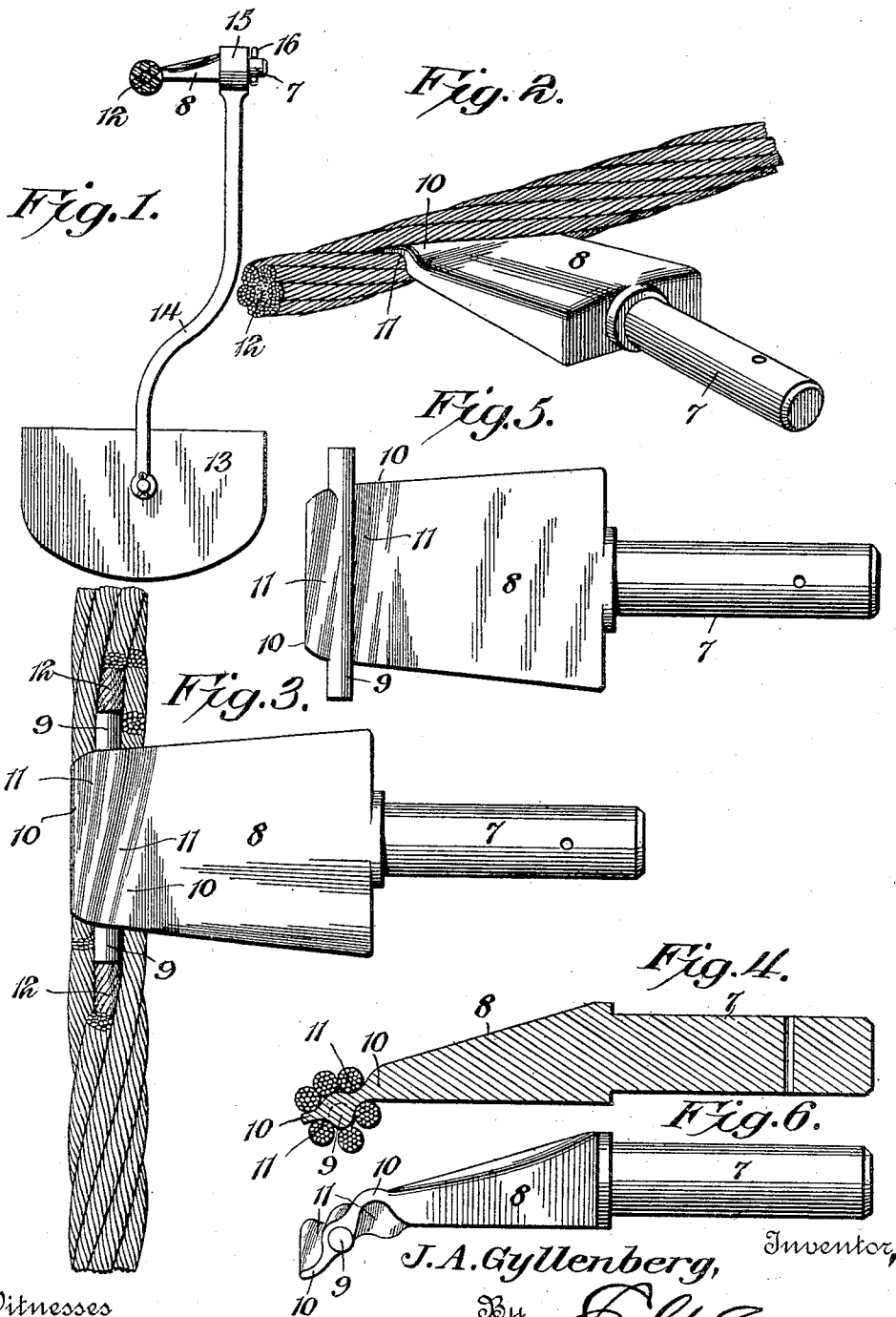
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J. A. GYLLENBERG.

COUPLING DEVICE FOR AERIAL TRAMWAYS AND THE LIKE.

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COUPLING DEVICE FOR AERIAL TRAMWAYS AND THE LIKE.

No. 824,645.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, JOHN A. GYLLENBERG, a citizen of the United States, residing at Baker City, in the county of Baker and State of Oregon, have invented a new and useful Coupling Device for Aerial Tramways and the Like, of which the following is a specification.

This invention relates to means for connecting articles to a cable, and while particularly intended for coupling-buckets and other devices to the cables of aerial tramways and like mechanism it is not limited to use therewith, but is clearly capable of advantageous employment in various other ways.

One of the principal objects is to provide an exceedingly simple, novel, and therefore inexpensive, device of the above character that can be readily applied to and detached from any portion of an ordinary cable and when in place will be effectively held not only against accidental detachment, but also against slipping, turning, or play of any kind upon the cable, thereby preventing injury and undue wear.

Another and important object is to provide a device that will not materially enlarge the cross-sectional area of the cable or stiffen the same, so that it will not interfere with the free passage of said cable in, under, or around sheaves, guides, and the like.

An embodiment of the invention that is at present considered the preferable one is illustrated in the accompanying drawings and is described in the following specification. An inspection of the claims, however, will clearly indicate that said invention is not limited to the exact structure disclosed.

In the drawings, Figure 1 is a cross-sectional view through a tramway-cable, showing a bucket connected thereto by the novel coupling device. Fig. 2 is a detail perspective view of a portion of the cable and the coupling device. Fig. 3 is a top plan view thereof, portions of the cable-strands being broken away in order to fully illustrate the device. Fig. 4 is a cross-sectional view through the same. Fig. 5 is a bottom plan view of the coupling device, and Fig. 6 is an edge view thereof.

Similar reference-numerals designate corresponding parts in all the figures of the drawings.

In the embodiment set forth article-attaching means in the form of an outstanding stem 7 is employed, said stem being connected to or carried by a head 8. This head tapers toward its inner end, and carried by said inner end is an anchor-core 9, disposed transversely of the stem and head and projecting beyond the side edges of the latter. The portions of the head on opposite sides of the core 9 constitute, in effect, wings 10, which are disposed at an inclination to the core and are provided in their opposite side faces with curved seats 11, said seats thus being disposed on opposite sides of the core 9.

In applying the device to a cable the strands of said cable are partially untwisted at the point at which the device is to be attached, and a portion of the hempen core-strand 12 is removed, the removed portion being of substantially the same length as the core 9. The wings are then inserted between the wire strands, and the core 9 is introduced into the space left vacant by the removed portion of the core-strand. The cable is then permitted to reassume its normal condition, whereupon the wire strands will embrace the wings and will be received in the curved seats thereof, said wings and seats corresponding substantially to the coil of the strands. The core and wing portions thus constitute, in effect, an anchor element which is very effectively clamped within the cable by the strands thereof, and the device is not only held against accidental detachment, but is positively secured against slipping, turning, or playing in any manner in the cable. Consequently wear upon the cable and upon the device from any of the above causes is entirely eliminated. Furthermore, the cable is not materially enlarged by the portion of the device introduced thereinto, nor does said device materially stiffen the same. Therefore the said device does not interfere with the free passage of the cable in, under, or around sheaves, guides, and like devices.

The articles coupled by the device to the cable can be of any well-known or desirable character. Thus in Fig. 1 a bucket 13 is dis-

closed, which bucket is suspended from a hanger 14. The hanger is provided with an upper terminal eye 15, that is fitted upon the stem 7 and is retained thereon by any suitable means—as, for instance, a split key 16. The present disclosure is intended merely as an illustration of how articles may be connected to the coupling device, and the arrangement can be readily varied to suit the different conditions of use.

From the foregoing it is thought that the construction, operation, and many advantages of the herein-described invention will be apparent to those skilled in the art without further description, and it will be understood that various changes in the size, shape, proportion, and minor details of construction may be resorted to without departing from the spirit or sacrificing any of the advantages of the invention.

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

1. A device of the character described, comprising an anchor-core arranged to be inserted longitudinally in a cable, a wing carried by the core and disposed at an inclination thereto, said wing being arranged to be engaged between the strands of the cable and conform substantially to the coil thereof, and article-attaching means connected to the core independently of said wing.

2. A device of the character described, comprising an anchor-core arranged to be inserted longitudinally in a cable, a plurality of wings extending from the core and disposed at an inclination thereto, said wings being arranged to engage between the strands of the cable and conform substantially to the

coil thereof, and article-attaching means connected to one of the wings.

3. A device of the character described, comprising a head having a transversely-disposed core at one end that is arranged to be inserted longitudinally in a cable, said head having curved strand-receiving seats in its opposite faces and on opposite sides of the core, and article-attaching means carried by the head.

4. A device of the character described, comprising an article-attaching stem, a head located at one end of the stem and having a core extending transversely of said stem, and wing portions located on opposite sides of the core and disposed at an inclination thereto, said wing portions having cable-strand-receiving seats in their opposite sides, which seats are curved to conform substantially to the coil of the strands.

5. A device of the character described, comprising a core having a wing portion projecting from one side, and article-attaching means connected to a different side of the core and being independent of said wing portion.

6. A device of the character described, comprising a head including a transversely-disposed core and wing portions projecting from one side of the core, and article-attaching means projecting from the opposite side of the core.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

JOHN A. GYLLENBERG.

Witnesses:

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