



Insulating Links

The only insulating link company that gives you protection from RF static discharge!

Our new "Watershed" design helps in both High Pollution and Wet Environments



Our products are used by . . .

- ✓ Bechtel
- ✓ Kiewit Pacific
- ✓ United States Navy
- ✓ Gulf & Alabama Power
- ✓ Pacific Steel Casting
- ✓ Lamar Advertsing

NEW PRODUCT!
Jibline insulator link used by multiple utility companies



(925) 931-1450

www.hjhirtzer.com • info@hjhirtzer.com
570 Valdry Court, Suite C-4 • Brentwood, CA 94513

Unitrex XS Max Wear.
Unmatched performance in the field and in the boardroom.

Electric line stringing is easier and more economical with Unitrex. Made with a core of Honeywell Spectra®, it is up to 10 times lighter than steel while delivering comparable strength. The urethane-coated polyester jacket provides excellent abrasion resistance for great productivity that lasts.

To learn more, visit www.yalecordage.com

YALE CORDAGE
Performance. Passion. Possibilities.

77 Industrial Park Road | Saco, Maine 04072 | 207-282-3396

Figure 15 shows a wire rope 10 with a number of wire strands 15 produced from twisted wires 16 which are twisted around a plastic core 11 and elongate inserts 12 are arranged between said strands. The cross sections of these inserts 12 extending over the whole length of the rope are shaped such that they extend almost to the outer circumference of the wire rope 10. They are provided here on the outer circumference with a radius **R** corresponding to approximately half the diameter of the rope so as to form an almost equal outside diameter together with the wire strands 15. In the region in contact with the wire strands 15 they respectively have on both sides a radius corresponding to the wire strands 15.

These wire ropes 10 are used in particular as pulling or hoisting cables with high loading requirements, for example in cable cars which are guided suspended on a stationary supporting cable and are connected to a pulling cable. Pulling or hoisting cables are generally guided around rollers at the upper and lower stations and are made as endless ropes by means of so-called splicing of their ends or are held together by an end attachment (not detailed).

The twisted wire strands 15 lie directly over the plastic core 11 over a specific peripheral region in the grooves 20, the inserts 12, however, respectively being arranged on the inside a distance a away from an outer circumferential surface 11" of the plastic core 11. When using a total of six wire strands, this groove 20 with a respective wire strand 15, with which it lies directly over the plastic core 11, corresponds to an angular range of a respective wire strand in relation to its cross section of preferably between 40° and 60°. These helical grooves 20 have a round cross section with a radius which corresponds approximately to half the diam-

eter of a wire strand 15.

The distances a between the inserts 12 and the plastic core 11 respectively have dimensions such that they respectively correspond at least approximately to an extension which occurs due to the outwardly directed flow of the plastic core 11 in the radial direction after a certain initial operating time of the wire rope. This extension moves over a range of millimeters depending on the diameter of the core and the loading of the wire rope.

The inserts 12 with their inside end part 12' respectively projecting through two wire strands 15 respectively have a thickness which is greater than the thickness in the narrowest region of the respective insert 12, these inside end parts 12' ending outside of a notional circle 14 on the insides of the wire strands 15, as shown by dots and dashes. This inside end part 12' of the inserts 12 is respectively rounded, but could also be elliptical, or in the shape of a half polygon or even flat.

Winch for pipelayer and pipelayer equipped with same
Pat. 9,617,126 U.S. class B66C 23/44 Int. class B66C 23/44
Inventor: Takuya Uemura, Hirakata, JP, Hiroki Yamamoto, Nishinomiya, JP, Kazumasa Teramoto, Hirakata, JP.
Assignee: KOMATSU LTD., Tokyo, JP.

A restraining roller of a hook winch has a roller middle part and first and second roller end parts. The roller middle part is formed in a columnar shape. Each of the first and second roller end parts is formed in a roughly circular truncated cone shape. The widths of the first and second roller end parts are greater than the diameter of a wire rope. A difference in diameter between an inner end and outer end

continued on next page