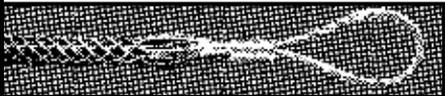


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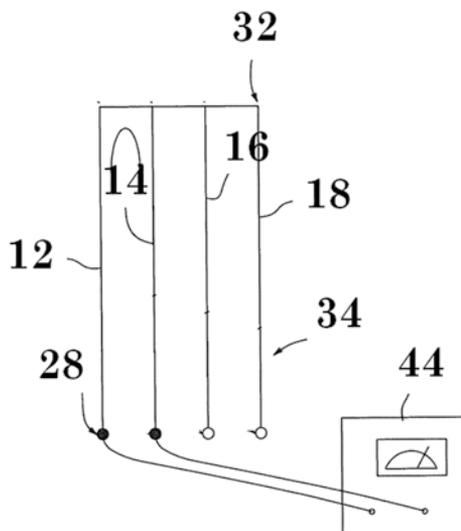
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and second wire ropes 12, 14 by the electrically connecting sheave 22. The controller 44 is not electrically connected to the first end portions 28 of the third and fourth wire ropes 16, 18, and as a result, the monitored portions 34 of the third and fourth wire ropes 16, 18 do not form part of the circuit. The controller 44 is operable to selectively apply a signal to the monitored portions 34 of the first and second wire ropes 12, 14 and determine the electrical resistance thereof.



**Pat. 9,862,572**

Figure 15: Schematically illustrates an electrical connection configuration of the system for positioning wire rope.

**Rope end-fastening method, rope with end fastener, and end fitting for use in rope end-fastening method**  
*Pat. 9,869,056 U.S. class D07B 9/00 Int. class F16G 11/05*  
*Inventor: Yasuyuki Fukuda, Tochigi, JP., Noriaki Kose, Tokyo, JP.*  
*Assignee: Toko Bridge Co., Ltd., Tochigi, JP.*

This patent presents a rope terminal fixing method, which may be used easily at a construction site, causing less shearing load, and may reliably prevent the falling-off of the rope. The rope terminal fixing method comprises the following steps. A tubular terminal metal fitting which comprises a proximal opening, a distal opening, and a through hole communicating the proximal and distal openings is prepared. A terminal of a rope is inserted through the proximal opening into the through hole, a portion of the terminal of the rope extended from the distal opening is loosened, and a diameter-enlarging member is fixed to a core wire of the rope. Then, the terminal of the rope is brought back into the through hole. A fixed width portion extending in an axial direction of the terminal metal fitting is pressed from the outside in a circumferential direction by swaging, such that a protrusion constraining the rope so as to reduce its diameter is formed in the through hole. The diameter-enlarging member cooperates with an end of the protrusion located on the distal opening side to constrain surrounding wires other than the core wire in a sandwiching manner. A rope with terminal fixing tools, which comprises the terminal fixing tools attached thereto by this method, is also provided.

With reference to figures 16-20, the carbon fiber composite cable 1 of this embodiment is formed by: impregnating carbon fibers with epoxy resin to form composites, winding

*continued on next page*