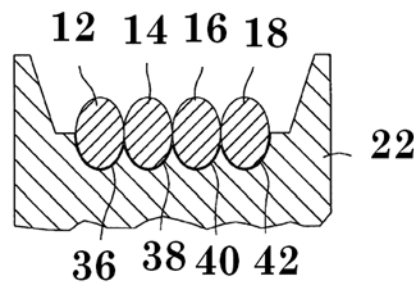


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Figure 13: Schematically illustrates another embodiment the system for positioning wire ropes.

rectly or indirectly, to the first end portions 28 of at least two of the wire ropes 12, 14, 16, 18 to form a circuit with the monitored portions 34 of the respective wire ropes 12, 14, 16, 18. The controller 44 is operable to selectively apply a signal to the monitored portions 34 of the respective wire ropes 12, 14, 16, 18 and determine an electrical characteristic (e.g., an electrical resistance) thereof. For example, the controller 44 may selectively apply a signal having a known electrical current to the monitored portions 34 of the respective wire ropes 12, 14, 16, 18, and may determine the electrical resistance thereof by measuring a voltage across the monitored portions 34 of the respective wire ropes 12, 14,

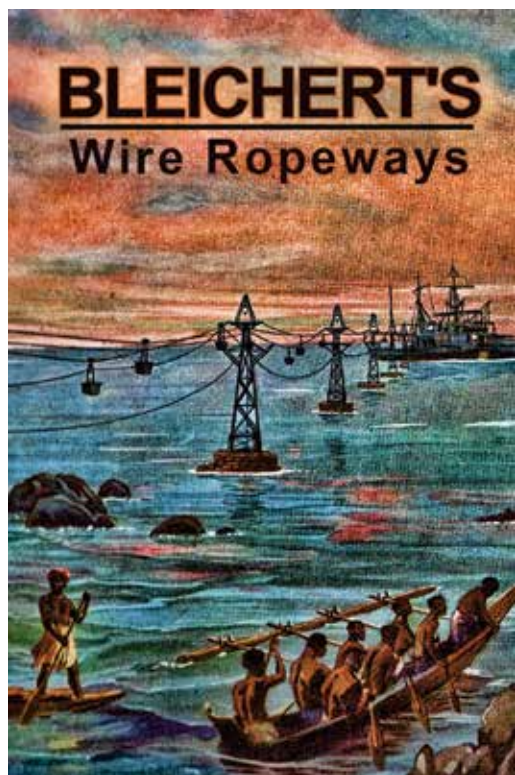


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Figure 14: Partial sectional view of an electrically connecting sheave with wire ropes contacting it.


16, 18 by applying Ohm's law. The controller 44 uses the determined electrical characteristic to determine a condition of the respective wire ropes 12, 14, 16, 18; e.g., to determine whether the respective wire ropes 12, 14, 16, 18 are experiencing wear or other damage that may cause weakening. The controller 44 is adapted (e.g., programmed) to selectively perform the functions described herein. The functionality of the controller 44 may be implemented using hardware, software, firmware, or a combination thereof. In embodiments in which the controller 44 determines an electrical resistance of the monitored portions 34 of the wire ropes 12, 14, 16, 18, for example, the controller 44 may include an electrical current source and a volt meter. A person skilled in the art would be able to adapt (e.g., program) the controller 44 to perform the functionality described herein without undue experimentation.


In the electrical connection configuration illustrated in figure 15, a circuit is formed by electrical connection of the controller 44 to the first end portion 28 of the first wire rope 12 and the first end portion 28 of the second wire rope 14, and by electrical connection of the contact portions 32 of the first



In 1924, Germany's 'Adolf Bleichert & Co.' celebrated its 50th Anniversary. By the time of this occasion, the company had designed and built the world's record holding wire ropeways: Longest and highest elevation (Argentina); Length of system over water (New Caledonia); Steepest (Tanzania); Highest capacity (France); Northernmost (Norway); and, Southernmost (Chile).

Written by the great-great grandson of the company's founder, this book includes over 100 pictures and detailed engineering drawings that explore the legendary company's history, and several of its record-holding systems.

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