

Title (en)
CABLE DETECTOR

Title (de)
LEITUNGSSUCHER

Title (fr)
CHERCHEUR DE LIGNES

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Abstract (en)
[origin: WO2012084329A2] The invention relates to a measuring device for detecting a conductor that carries alternating voltage, comprising a voltage source for producing two phase-shifted alternating voltages, two complex impedance elements having first connections, which are connected to the alternating voltages, and second connections, which are connected to each other and to which a differential voltage is applied, and a control device for controlling the alternating voltages in such a way that a component of the differential voltage synchronous with the alternating voltages is minimized in magnitude. The control device is designed to detect the conductor if the ratio of the alternating voltages does not correspond to a ratio of the complex impedance elements in the absence of the conductor. The second complex impedance element can be changed by means of a control voltage, and a probe for providing the control voltage as a function of an alternating electromagnetic field induced by the conductor is provided.

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