

Title (en)

DEVICE FOR MEASURING A CURRENT BY MEANS OF A FIBRE-OPTIC SAGNAC INTERFEROMETER

Title (de)

EINRICHTUNG ZUR STROMMESSUNG MITTELS EINES FASEROPTISCHEN SAGNAC-INTERFEROMETERS

Title (fr)

DISPOSITIF DE MESURE DE COURANT AU MOYEN D'UN INTERFEROMETRE SAGNAC A FIBRES OPTIQUES

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Application

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Abstract (en)

[origin: DE19808517A1] The invention aims to allow the accurate, non-contacting, preferably digital measurement of strong currents, especially in high-voltage distributors and networks. To this end a fibre-optic gyroscope with a closed control loop is used, in which a current measuring coil (7) at least partly replaces the actual sensor coil (6). The measurement principle is based on the Faraday effect. The current measuring device can be used without difficulty for measuring the current in the above kind of supply installation.

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