

Title (en)

A sensor and process for detecting an electric pulse caused by a partial discharge

Title (de)

Sensor und Verfahren zur Erkennung eines durch partielle Entladung hervorgerufenen elektrischen Impulses

Title (fr)

Capteur et procédé permettant de détecter une impulsion électrique provoquée par une décharge partielle

Publication

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Application

EP 10708805 A 20100215

Priority

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- IT BO20090082 A 20090217

Abstract (en)

[origin: WO2010095086A1] A sensor (1) for detecting an electric pulse caused by a partial discharge and propagating along an axial direction in an electric apparatus (2) with cylindrical geometry comprises a conducting wire (10) wound on a support (9) to form a winding (11) with at least one turn, so that a component of the magnetic field generated outside the apparatus (2) by said pulse, concentric with the axial direction, concatenates with the winding (11), when the sensor (1) is operatively connected to the apparatus (2), for producing at terminals (12) of the winding (11) a voltage correlated with the pulse. The support (9) comprises a thin layer, having a thickness which is much less than its extension in a longitudinal direction, said at least one turn of the winding (11) being extended in the longitudinal direction, in such a way that, when the sensor (1) is operatively connected to an outer surface of the apparatus (2), said at least one turn forms a flux concatenation section positioned in a radial plane and extended in the axial direction.

IPC 8 full level

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CPC (source: EP)

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Citation (search report)

See references of WO 2010095086A1

Citation (examination)

US 2005134290 A1 20050623 - SARKOZI JANOS G [US], et al

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