

Title (en)

SENSOR APPARATUS, IN PARTICULAR METAL SENSOR, WITH A FIELD-COMPENSATED MAGNETIC FIELD SENSOR

Title (de)

SENSORVORRICHTUNG, INSBESONDERE METALLSENSOR, MIT FELDKOMPENSIERTEM MAGNETFELDSSENSOR

Title (fr)

DISPOSITIF DÉTECTEUR, EN PARTICULIER DÉTECTEUR DE MÉTAUX COMPRENANT UN DÉTECTEUR DE CHAMP MAGNÉTIQUE À COMPENSATION DE CHAMP

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Application

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Priority

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Abstract (en)

[origin: WO2012055641A2] The invention relates to a sensor apparatus, in particular a metal sensor, having at least two coils and a magnetic field sensor, in which the arrangement of coils and magnetic sensor with respect to one another and/or the number of coil turns and/or the winding sense of the coils and/or the coil current is/are selected in such a manner that the magnetic field generated by the coils approximately disappears at the location of the magnetic field sensor. The invention also relates to a method for detecting objects, in particular a method for finding metal objects, using at least two coils and a magnetic field sensor, in particular an AMR, GMR or Hall sensor, in which the arrangement of the coils and the magnetic sensor with respect to one another and/or the number of coil turns and/or the winding sense of the coils and/or the coil current is/are selected in such a manner that the magnetic field generated by the coils approximately disappears at the location of the magnetic field sensor.

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