

Title (en)

EDDY CURRENT PROBE AND EDDY CURRENT TESTING DEVICE

Title (de)

WIRBELSTROMSONDE UND WIRBELSTROM-PRÜFGERÄT

Title (fr)

SONDE DE COURANT DE FOUCAULT ET APPAREIL DE CONTRÔLE DU COURANT DE FOUCAULT

Publication

**EP 3066460 A1 20160914 (DE)**

Application

**EP 14792439 A 20141024**

Priority

- DE 102013222523 A 20131106
- EP 2014072830 W 20141024

Abstract (en)

[origin: WO2015067483A1] An eddy current probe comprises an excitation system (110) comprising at least one electrical conductor, which is provided to connect to an AC voltage source, and a receiving system (130) having at least one receiver coil (140) which is separate from the excitation system, which receiver coil has one or more windings. The excitation system has an excitation section (115) in which one conductor section or multiple conductor sections runs or run in such a way that a primary magnetic alternating field (PF) having magnetic field lines (FL) extending around the excitation section is generated by the conductor section(s) of the excitation section during connection to an AC voltage source. The receiver coil (140) is arranged in relation to the excitation section (115) in such a way that the receiver coil is symmetrically penetrated by the primary magnetic alternating field of the excitation section in such a way that a temporal change  $d\phi/dt$  of the magnetic flux  $\phi$  of the primary magnetic alternating field substantially disappears through the receiver coil.

IPC 8 full level

**G01N 27/90** (2006.01)

CPC (source: EP)

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Citation (search report)

See references of WO 2015067483A1

Citation (examination)

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Designated extension state (EPC)

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DOCDB simple family (publication)

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