

Title (en)

DEVICE FOR NON-DESTRUCTIVE TESTING OF A COMPONENT BY ANALYZING DISTRIBUTION OF A LEAKAGE MAGNETIC FIELD

Title (de)

VORRICHTUNG ZUM NICHTDESTRUKTIVEN TESTEN EINER KOMPONENTE DURCH ANALYSIEREN DER VERTEILUNG EINES LECKMAGNETFELDS

Title (fr)

DISPOSITIF DE CONTRÔLE NON DESTRUCTIF D'UNE PIÈCE PAR ANALYSE DE DISTRIBUTION DU CHAMP MAGNÉTIQUE DE FUITE

Publication

**EP 2030010 A1 20090304 (FR)**

Application

**EP 07729199 A 20070516**

Priority

- EP 2007054751 W 20070516
- FR 0651901 A 20060524

Abstract (en)

[origin: WO2007135051A1] The invention concerns a device for non-destructive control (1) of a component (4) by analyzing distribution of a leakage magnetic field emitted by the component when it is subjected to an exciting magnetic field, comprising means for generating an exciting magnetic field inside the component to be tested, and means for detecting and measuring the distribution of the magnetic field. The set of means is integrated in a flexible housing (2) to form a device in the form of a flexible coating for being fixed on a region of the surface of the component to be tested (4). The invention is useful for non-destructive testing of aircraft components, but may also be used in all industrial sectors where testing the integrity of components is important, such as the automotive, railway, marine or nuclear industry.

IPC 8 full level

**G01N 27/87** (2006.01)

CPC (source: EP US)

**G01N 27/82** (2013.01 - EP US); **G01N 27/87** (2013.01 - EP US)

Citation (search report)

See references of WO 2007135051A1

Citation (examination)

- US 5047719 A 19910910 - JOHNSON DUANE [US], et al
- US 5895629 A 19990420 - RUSSELL STEPHEN D [US], et al

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Designated extension state (EPC)

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DOCDB simple family (publication)

**WO 2007135051 A1 20071129**; BR PI0713938 A2 20121218; CA 2650829 A1 20071129; CN 101449158 A 20090603; CN 101449158 B 20130327; EP 2030010 A1 20090304; FR 2901611 A1 20071130; FR 2901611 B1 20090116; JP 2009537834 A 20091029; JP 5394918 B2 20140122; RU 2008151180 A 20100627; RU 2439549 C2 20120110; US 2009302836 A1 20091210; US 8395380 B2 20130312

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