

Title (en)

DEVICE FOR NON-DESTRUCTIVE TESTING OF A COMPONENT BY ANALYZING RADIATION DISSIPATION

Title (de)

VORRICHTUNG ZUM NICHTDESTRUKTIVEN TESTEN EINER KOMPONENTE DURCH ANALYSIEREN VON STRAHLUNGSDISSIPATION

Title (fr)

DISPOSITIF DE CONTRÔLE NON DESTRUCTIF D'UNE PIÈCE PAR ANALYSE DE DISSIPATION DE RAYONNEMENT

Publication

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Application

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Priority

- EP 2007054762 W 20070516
- FR 0651902 A 20060524

Abstract (en)

[origin: WO2007135059A1] The invention concerns a device for non-destructive testing of a component (4) by analyzing radiation dissipation when the component is stressed by mechanical stresses. Said device comprises measuring means for determining a surface radiation field of the component. The measuring means are integrated in a flexible housing (2) for covering a region of the surface of the component (4) to be tested. Said device enable an initial crack upon stress concentration on a surface of the component and the presence of a crack (5) upon propagation of said crack to be detected. The invention is useful for non-destructive testing of aircraft components, but may be used in all industrial sectors where testing the integrity of components is important, such as the automotive, railway, marine and nuclear industries.

IPC 8 full level

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CPC (source: EP US)

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Citation (search report)

See references of WO 2007135059A1

Citation (examination)

- US 5166573 A 19921124 - BROWN LEWIS F [US]
- US 5911158 A 19990608 - HENDERSON DOUGLAS A [US], et al

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