Title (en)

METHOD AND DEVICE FOR DETECTING STRUCTURAL ABNORMALITIES IN A SPHERICAL PARTICLE, MAINLY IN A NUCLEAR FUEL PARTICLE FOR HIGH TEMPERATURE OR VERY HIGH TEMPERATURE REACTORS

Title (de)

VERFAHREN UND VORRICHTUNG ZUR ERKENNUNG STRUKTURELLER ANOMALIEN IN EINEM KUGELFÖRMIGEN PARTIKEL, VOR ALLEM IN EINEM KERNBRENNSTOFFPARTIKEL FÜR HOCHTEMPERATUR- BZW. ULTRAHOCHTEMPERATURREAKTOREN

Title (fr)

PROCÉDÉ ET DISPOSITIF DE DÉTECTION D'ANOMALIES STRUCTURELLES DANS UNE PARTICULE SPHÉRIQUE, NOTAMMENT DANS UNE PARTICULE DE COMBUSTIBLE NUCLÉAIRE POUR RÉACTEURS A HAUTE TEMPÉRATURE OU TRÈS HAUTE TEMPÉRATURE

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Application

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Abstract (en)

[origin: WO2008046986A2] The invention relates to a method for detecting at least one structural abnormality in a spherical particle (33) that comprises at least the following steps: passing the particle (33) through at least one induction coil (15); exciting the induction coil (15) in order to generate Foucault currents in the particle (33); receiving an output signal at the terminals of the induction coil (15); and analysing the signal in order to determine whether or not the particle includes a structural abnormality. Several output signals can be received by passing the particle (33) successively through one or more induction coils (15) with different positions of the particle (33), the or each induction coil (15) being excited at least upon each passage of the particle (33) in order to induce Foucault currents in he particle (33).

IPC 8 full level

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Citation (search report)

See references of WO 2008046986A2

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