

Title (en)
MATERIAL EROSION MONITORING SYSTEM AND METHOD

Title (de)
ÜBERWACHUNGSSYSTEM FÜR MATERIALEROSION UND VERFAHREN

Title (fr)
SYSTÈME ET PROCÉDÉ DE SURVEILLANCE D'ÉROSION DE MATÉRIAU

Publication
EP 3538841 A4 20200325 (EN)

Application
EP 17869485 A 20170425

Priority

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Abstract (en)
[origin: WO2018089044A1] Disclosed is an improved system and method to evaluate the status of a material. The system and method are operative to identify flaws and measure the erosion profile and thickness of different materials, including refractory materials, using electromagnetic waves. The system is designed to reduce a plurality of reflections, associated with the propagation of electromagnetic waves launched into the material under evaluation, by a sufficient extent so as to enable detection of electromagnetic waves of interest reflected from remote discontinuities of the material. Furthermore, the system and method utilize a configuration and signal processing techniques that reduce clutter and enable the isolation of electromagnetic waves of interest. Moreover, the launcher is impedance matched to the material under evaluation, and the feeding mechanism is designed to mitigate multiple reflection effects to further suppress clutter.

IPC 8 full level
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Citation (search report)

- No further relevant documents disclosed
- See references of WO 2018089044A1

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