

Title (en)
RADIATION ANALYSIS SYSTEM AND METHOD

Title (de)
STRAHLUNGSANALYSESYSTEM UND VERFAHREN

Title (fr)
SYSTÈME ET PROCÉDÉ D'ANALYSE DE RAYONNEMENT

Publication
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Application
EP 13858849 A 20131112

Priority

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- US 2013069682 W 20131112

Abstract (en)
[origin: WO2014085081A1] A radiation analysis system/method that automatically optimizes the efficiency calibration of a counting system based on benchmark data and variable parameters associated with radiation source/sensor/environment (RSSE) combinations is disclosed. The system/method bifurcates RSSE context (SSEC) model parameters into WELL-KNOWN (fixed) parameters (WNP) and NOT-WELL-KNOWN (variable) parameters (NWP) The NWP have associated lower/upper limit values (LULV) and a shape distribution (LUSD) describing NWP characteristics. SSEC models are evaluated using randomized statistical NWP variations or by using smart routines that perform a focused search within the LULV / LUSD to generate model calibration values (MCV) and calibration uncertainty values (UCV) describing the overall SSEC efficiencies.

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