

Title (en)
ACTIVE AND PASSIVE NEUTRON EXAMINATION AND ASSAY SYSTEM

Title (de)
AKTIVES UND PASSIVES NEUTRONENUNTERSUCHUNGS- UND TESTSYSTEM

Title (fr)
SYSTEME ACTIF ET PASSIF D'EXAMEN ET DE CONTROLE DE NEUTRONS

Publication
EP 0803072 A4 19990526 (EN)

Application
EP 96902584 A 19960111

Priority
• US 9600045 W 19960111
• US 37169095 A 19950112

Abstract (en)
[origin: WO9622550A2] The assay of a drum is performed by treating the drum as a collection of virtual subvolumes, each separately treated in the system response. Then, neutron measurements are made so as to include azimuthal orientation and time relative to a generator pulse in the data stream. An external matrix probe provides a detailed measure of neutron transmission through a drum, so that scans of mock-up drums can be compared to the scan of a target drum, so that appropriate system response functions can be determined.

IPC 1-7
G01T 3/00

IPC 8 full level
G01N 23/02 (2006.01)

CPC (source: EP)
G01N 23/025 (2013.01)

Citation (search report)
• [DA] US 4483816 A 19841120 - CALDWELL JOHN T [US], et al
• [DA] US 5002720 A 19910326 - BERGGREN STEPHEN R [US]
• [DA] US 4620100 A 19861028 - SCHOENIG JR FREDERICK C [US], et al
• [DA] US 4724118 A 19880209 - GRENIER GERARD [FR]
• See references of WO 9622550A2

Designated contracting state (EPC)
AT BE CH DE DK ES FR GB IT LI MC NL

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WO 9622550 A2 19960725; WO 9622550 A3 19960926; AU 4693296 A 19960807; EP 0803072 A2 19971029; EP 0803072 A4 19990526

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