

Title (en)
MULTI-STAGE SYSTEM FOR VERIFICATION OF CONTAINER CONTENTS

Title (de)
MEHRSTUFIGES SYSTEM ZUR ÜBERPRÜFUNG VON BEHÄLTERINHALTEN

Title (fr)
SYSTÈME MULTI-ÉTAGES POUR VÉRIFICATION DE CONTENUS DE CONTENANTS

Publication
EP 2097868 A2 20090909 (EN)

Application
EP 07874464 A 20071127

Priority

- US 2007085578 W 20071127
- US 56419306 A 20061128
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- US 62412107 A 20070117

Abstract (en)
[origin: WO2008118219A2] A multi-stage process detects and identifies radiation, explosives, and special materials within a shipping container. The process utilizes radiation sensors configured as nodes on a distributed network. The process collects radiation data from the nodes. The radiation data is associated with the container and its contents. The collected radiation data is dynamically adjusted according to dynamically changing background radiation data, such as relating to water, land, air, ground, and other structures. The process compares collected and adjusted radiation data to spectral images representing isotopes to identify one or more isotopes present. Identified isotopes are corresponded to possible materials that they represent. The possible materials are compared with the manifest of the container to confirm the identity of materials contained in the container or to detect and/or identify unauthorized materials in the container. A neutron pulse device could be used to identify shielded materials, explosives, and other types of materials.

IPC 8 full level
G01T 1/167 (2006.01); **G06Q 10/00** (2012.01); **G06Q 50/00** (2012.01)

CPC (source: EP)
G01T 1/167 (2013.01); **G01V 5/26** (2024.01); **G01V 5/271** (2024.01); **G06Q 10/08** (2013.01); **G06Q 50/40** (2024.01); **G01J 3/28** (2013.01); **G06F 2218/10** (2023.01)

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WO 2008118219 A2 20081002; WO 2008118219 A3 20090312; AU 2007349827 A1 20081002; BR PI0719542 A2 20140121; CA 2670450 A1 20081002; EP 2097868 A2 20090909; EP 2097868 A4 20100519; EP 2098885 A2 20090909; EP 2098885 A3 20091021; EP 2098885 B1 20120725; EP 2103961 A2 20090923; EP 2103961 A3 20091202; IL 198987 A0 20100217; JP 2010511153 A 20100408; JP 4601713 B2 20101222; MX 2009005709 A 20090617

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