

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
- US 62408907 A 20070117
- 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)  
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