

Title (en)  
SYSTEMS AND METHODS FOR HIGH-Z THREAT ALARM RESOLUTION

Title (de)  
SYSTEME UND VERFAHREN ZUR AUFLÖSUNG VON ALARMEN VON HIGH-Z-BEDROHUNGEN

Title (fr)  
SYSTÈMES ET PROCÉDÉS POUR RÉOLUTION D'ALARME DE MENACE DE Z ÉLEVÉ

Publication  
**EP 3058353 A4 20170830 (EN)**

Application  
**EP 14854604 A 20141016**

Priority  
• US 201361891886 P 20131016  
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Abstract (en)  
[origin: WO2015057973A1] A second stage screening system configured to resolve a threat alarm detected in a cargo by a first stage screening system. The second stage screening system includes layers of first muon detectors placed above the cargo to detect a first coordinate and an angle of incidence of incoming muons and layers of second muon detectors placed below the cargo to detect an actual coordinate and an actual angle of exit of the incoming muons. The first and second detectors measure a momentum of the incoming muons. A processing unit receives threat sensitivity vectors determined from the first stage, operates a cargo positioning system that centers a high-Z threat within the cargo, relative to the first and second muon detectors, and analyzes the momentum and a distribution of deflection angles between the angles of incidence and exit to resolve the threat alarm.

IPC 8 full level  
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**G01V 5/22** (2024.01 - EP GB); **G01V 5/281** (2024.01 - GB)

Citation (search report)  
• [XP] WO 2014051895 A2 20140403 - DECISION SCIENCES INT CORP [US]  
• [Y] US 2006104414 A1 20060518 - MAYO WILLIAM E [US]  
• [Y] US 2008315091 A1 20081225 - MORRIS CHRISTOPHER L [US], et al  
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• See references of WO 2015057973A1

Designated contracting state (EPC)  
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