

Title (en)

OBJECT DETECTION METHOD AND APPARATUS

Title (de)

OBJEKTDETEKTIONSVERFAHREN UND -VORRICHTUNG

Title (fr)

DISPOSITIF ET PROCEDE DE DETECTION D'OBJET

Publication

**EP 1709461 A2 20061011 (EN)**

Application

**EP 04822148 A 20041124**

Priority

- US 2004039628 W 20041124
- US 52563703 P 20031125

Abstract (en)

[origin: WO2006001821A2] Method and apparatus for detecting objects. In one embodiment, a person entering a secured zone is illuminated with low-power polarized radio waves. Differently polarized waves which are reflected back from the person are collected. Concealed weapons are detected by measuring various parameters of the reflected signals and then calculating various selected differences between them. These differences create patterns when plotted as a function of time. Preferably a trained neural network pattern recognition program is then used to evaluate these patterns and autonomously render a decision on the presence of a weapon.

IPC 8 full level

**G01S 13/00** (2006.01)

CPC (source: EP KR)

**G01S 7/024** (2013.01 - EP); **G01S 7/417** (2013.01 - EP); **G01S 13/00** (2013.01 - KR); **G01S 13/04** (2013.01 - EP); **G01S 13/887** (2013.01 - EP)

Designated contracting state (EPC)

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Designated extension state (EPC)

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DOCDB simple family (publication)

**WO 2006001821 A2 20060105**; **WO 2006001821 A3 20060908**; AU 2004321106 A1 20060105; AU 2004321106 B2 20090122; AU 2009201597 A1 20090521; CN 1930490 A 20070314; EP 1709461 A2 20061011; EP 1709461 A4 20110316; JP 2007515628 A 20070614; KR 20070009541 A 20070118; TW 200526975 A 20050816; TW I269884 B 20070101; ZA 200605143 B 20071128

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**US 2004039628 W 20041124**; AU 2004321106 A 20041124; AU 2009201597 A 20090422; CN 200480040970 A 20041124; EP 04822148 A 20041124; JP 2006541729 A 20041124; KR 20067012830 A 20060626; TW 93136256 A 20041125; ZA 200605143 A 20060622