Title (en)

SYSTEM FOR DETECTION OF OBJECTS IN THE GROUND

Title (de)

SYSTEM ZUM ENTDECKEN VON GEGENSTÄNDEN IN DER BODENFLÄCHE

Title (fr)

SYSTEME DE DETECTION D'OBJETS DANS LE SOL

Publication

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Application

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Abstract (en)

[origin: WO0022455A1] A detection system (1) comprises a radar unit (2) connected to an array controlling network (3) which is in turn connected to an array (4) of sensors (5). The array (4) consists of a number of sensors (5) each comprising a transmit-receive antenna pair. The radar unit (2) consists of a signal source, a receiver and an analogue-to-digital converter. The signal source generates a high resolution waveform such as a broadband chirp which is transmitted to each of a number of ground positions by the array (4). A return radar signal is reflected from the ground to the array (4) for processing in order to determine the location of an object, for example a mine, located in, on or at the surface of the ground. The location of an object is determined by measuring the spatial correlation of the returned radar signal at adjacent positions along the area of ground to be investigated.

IPC 1-7

G01S 13/88; G01S 13/02

IPC 8 full level

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CPC (source: EP)

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