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Abstract:

The present invention relates to a buried object detection system (100) of detecting a buried object or a landmine using an IoT based vibration detector. The system i
detection device (101) to scan data associated with a monitored area (109) using a sensor (102), a data receiving module (201) configured to receive the data detected
sensor (102), a data analyzing module (202) configured to analyze the data in order to identify frequencies of vibrations detected by the sensor (102) that may be nor
object detection module (203) configured to detect and identify an object and/or a landmine buried under the ground, a notification and display module (204) config
transmit an alert signal generated by the object detection module (203) to a user device (106).

Complete Specification

Embodiments of the present invention generally relate to a system and
method for detection of buried objects and particularly to a system and
method for measuring vibrational frequency of a ground surface to detect the
buried objects such as, mines.
[003] Description of Related Art
[004] The process of detection and removal of mines and other buried
objects from an area is called as demining or mine clearance. It can be
categorized into two main types namely military demining and humanitarian
demining. Military demining involves detection and removal of few
landmines or explosives so as to create a safe passage for the troops and the
military vehicles to move through the area. Generally, a flail machine and an
excavator are used for this purpose which have about 80% clearance rate.
Humanitarian demining, however, means to free the entire area from the
landmines and buried objects with a clearance of 99.6%. The objective of the
humanitarian demining is to make the area safe for a human use

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