

**DEVICE FOR ASSISTING IN THE DETECTION OF OBJECTS PLACED ON
THE GROUND FROM IMAGES OF THE GROUND TAKEN BY A WAVE
REFLECTION IMAGING DEVICE**

ABSTRACT

A device for assisting with the detection of a sought object on the ground,
5 said object having a first preset height, comprising:
- a display device configured to display an image (12) generated from
echoes measured by a device for imaging reflected waves, the image
(12) representing the intensities of echoes generated by the observed
10 zone and extending at least along a distance axis (d) representing the
oblique distances separating the reflected-wave imaging device from
echo-generating reflectors, the display device allowing a cursor (14) to
be displayed superposed on said image on said screen; and
- a computational module configured to determine an expected length
15 (w), along the distance axis (d), of an expected shadow (19, 20)
projected in the image (12) by the sought object assuming that the
sought object is positioned at a sighted position on the ground
corresponding to the position of the observed zone associated with a
position (P) designated by the cursor (14), the cursor (14) comprising
20 at least one gauge (142) of the expected shadow, which gauge is
dimensioned and arranged so as to allow an operator to verify that a
shadow projected in the image (12) in the vicinity of the designated
position (P) has the expected length along the distance axis (d).

Fig 4