

Title (en)
METHOD FOR DETECTING MOVING ELECTROCONDUCTIVE OBJECTS

Title (de)
VERFAHREN ZUR ERKENNUNG BEWEGLICHER LEITFÄHIGER OBJEKTE

Title (fr)
PROCÉDÉ DE DÉTECTION D'OBJETS MOBILES ÉLECTRO-CONDUCTEURS

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Abstract (en)
The application describes a method for the detection of electrically conductive moving elements, which comprises the arrangement of measuring devices (3) located in a monitored space along a protected boundary or perimeter at equal or different distances from each other and connected to each other by a connecting cable (1), the measuring devices having the form of converters converting a magnetic field into an electric voltage, and emitters (4) connected to each other by another connecting cable (2) and having the form of converters converting electric voltage into a magnetic field, wherein changes of the parameters of the resulting field created by the emitters are detected by the measuring devices (3), and information on the detection of an electrically conductive object or a group of electrically conductive objects is worked out for given combinations of measured parameters. To enhance the reliability of the detection of one or several electrically conductive moving objects and to increase the accuracy of the localisation of the place or places where the protected boundary (perimeter) is crossed by the one or several electrically conductive objects, according to the invention the measuring devices (3) are equipped with apparatuses for primary analysis and processing of the measured changes in the parameters of the magnetic and electric fields, "measuring device/emitter pairs" are formed from neighbouring and adjacent measuring devices (3) and emitters (4), the "measuring device/emitter" pairs also identify information on the detection of an electrically conductive object worked out by each "measuring device/emitter" pair, said information is transmitted to the central information analysis and processing apparatus (14), which generates a warning of the detection of an electrically conductive object or a group of electrically conductive objects, indicating the place of the detection of the object or the places of the detection of the objects.

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