

Title (en)

A METHOD AND A SYSTEM FOR REMOTE DETECTION OF MARKERS

Title (de)

EIN VERFAHREN UND SYSTEM ZUR FERNENTSCHLÜSSELUNG VON MARKIERUNGEN

Title (fr)

PROCEDE ET SYSTEME DE DETECTION A DISTANCE DE MARQUEURS

Publication

**EP 1080441 A1 20010307 (EN)**

Application

**EP 99929978 A 19990511**

Priority

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Abstract (en)

[origin: WO9962020A1] A method and a system is provided for remote detection of markers (10), each marker comprising at least two magnetic elements (13) arranged in a predetermined relationship providing an identity of the marker, by either exciting a respective magnetic element (13) to resonate mechanically or by exciting an electrical resonant circuit (14), to which the respective magnetic element (13) is coupled, to oscillate electrically. A resonant frequency ( $f_{res}$ ) of the respective magnetic element or of the electrical resonant circuit depends on an applied magnetic field (H), which is given a varying orientation. A corresponding variation in the resonant frequency ( $f_{res}$ ) is monitored, and an extreme value ( $f_{min}$  local?) of the variation is detected. A momentary orientation ( $\alpha_{min}$  local?) of the magnetic field is determined in response to the detection of the extreme value, and an orientation of the respective element (13) is determined from this momentary field orientation.

IPC 1-7

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