

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
• SE 9900786 W 19990511
• SE 9801912 A 19980528

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 (α_{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
G06K 7/08; **G08B 13/24**; **G01B 7/00**; **G01D 5/12**; **G01V 3/08**; **G07C 11/00**

IPC 8 full level
G01B 7/00 (2006.01); **G01D 5/12** (2006.01); **G01V 3/08** (2006.01); **G06K 7/08** (2006.01); **G06K 19/067** (2006.01); **G08B 13/24** (2006.01)

CPC (source: EP)
G01V 3/08 (2013.01); **G06K 7/086** (2013.01); **G06K 19/0672** (2013.01); **G08B 13/2408** (2013.01); **G08B 13/246** (2013.01); **G08B 13/2485** (2013.01)

Citation (search report)
See references of WO 9962020A1

Designated contracting state (EPC)
DE FR GB

DOCDB simple family (publication)
WO 9962020 A1 19991202; EP 1080441 A1 20010307; JP 2002517004 A 20020611; SE 512488 C2 20000327; SE 9801912 D0 19980528; SE 9801912 L 19991129

DOCDB simple family (application)
SE 9900786 W 19990511; EP 99929978 A 19990511; JP 2000551350 A 19990511; SE 9801912 A 19980528