

Title (en)
MULTI-TARGETING METHOD AND MULTI-TARGETING SENSOR DEVICE FOR LOCATING SHORT-RANGE TARGET OBJECTS IN TERMS OF DISTANCE AND ANGLE

Title (de)
MEHRZIELFÄHIGES VERFAHREN UND MEHRZIELFÄHIGE SENSORVORRICHTUNG FÜR DIE ABSTANDS- UND WINKELORTUNG VON ZIELOBJekten IM NAHBEREICH

Title (fr)
PROCEDE ET SYSTEME DE CAPTEURS A CAPACITE MULTICIBLE DESTINES A LA DETECTION D'ECART ET D'ANGLE D'OBJETS CIBLES EN ZONE PROCHE

Publication
EP 1570298 A1 20050907 (DE)

Application
EP 03785706 A 20031202

Priority
• DE 10258367 A 20021212
• EP 0313546 W 20031202

Abstract (en)
[origin: WO2004053523A1] The invention relates to a multi-targeting method for locating short-range target objects in terms of distance and angle, said method comprising the following steps: a) a characteristic signal is emitted by a transmitting antenna (11) of a first sensor element (10); b) the reflected characteristic signal is received by at least two adjacent reception antennae (1, 2) of the first sensor element (10); c) the difference in transit time of the reflected characteristic signal to the two adjacent reception antenna (1, 2) of the first sensor element (10) is measured in order to determine the distance between the target objects and the first sensor element (10); and d) the phase differences of the characteristic signal between the two adjacent reception antenna (1, 2) of the first sensor element (10) are measured in order to determine the angles between the target objects and the first sensor element (10). The invention also relates to a device for implementing the above-mentioned method.

IPC 1-7
G01S 13/93; **G01S 13/00**; **G01S 13/42**

IPC 8 full level
G01S 13/00 (2006.01); **G01S 13/42** (2006.01); **G01S 13/931** (2020.01); **G01S 13/87** (2006.01)

CPC (source: EP US)
G01S 13/003 (2013.01 - EP US); **G01S 13/422** (2013.01 - EP US); **G01S 13/931** (2013.01 - EP US); **G01S 13/878** (2013.01 - EP US)

Citation (search report)
See references of WO 2004053523A1

Designated contracting state (EPC)
DE FR GB

DOCDB simple family (publication)
WO 2004053523 A1 20040624; AU 2003294763 A1 20040630; DE 10258367 A1 20040708; EP 1570298 A1 20050907; JP 2006510009 A 20060323; US 2006114146 A1 20060601

DOCDB simple family (application)
EP 0313546 W 20031202; AU 2003294763 A 20031202; DE 10258367 A 20021212; EP 03785706 A 20031202; JP 2004557968 A 20031202; US 53873105 A 20050613