

Title (en)

BROADBAND RADAR AND MODULATOR, IN PARTICULAR FOR MICROWAVE SWITCHING OVER A VERY SHORT PERIOD

Title (de)

BREITBANDRADAR UND -MODULATOR, INSBESONDERE ZUR SCHALTUNG MIKROWELLEN WÄHREND EINES SEHR KURTZEN ZEITINTERVALLS

Title (fr)

RADAR LARGE BANDE ET MODULATEUR, NOTAMMENT POUR COMMUTER DES ONDES HYPERFREQUENCE SUR UNE TRES COURTE DUREE

Publication

EP 1344086 A1 20030917 (FR)

Application

EP 01270783 A 20011211

Priority

- FR 0103927 W 20011211
- FR 0016414 A 20001215

Abstract (en)

[origin: WO0248735A1] The invention concerns an ultra broadband radar: It also concerns a modulator in particular for microwave switching over a very short period. The radar comprises a modulator modulating a carrier microwave, said modulator comprising: a microwave mixer (21), means for generating a modulation signal (23). The microwave is inputted on the mixer input and the modulation signal (22) on the other input, the mixer output signal being supplied to the radar transmitting means. Advantageously, the modulation signal can be pulsed and of very short duration. A local oscillator (1) operating as a free oscillator, supplies the microwave to be modulated. The invention is particularly useful for assisting parking of motor vehicles. More generally, it is applicable to all operations requiring low-cost range high resolution detection.

IPC 1-7

G01S 13/02; **G01S 7/282**

IPC 8 full level

G01S 13/28 (2006.01); **G01S 7/282** (2006.01); **G01S 13/02** (2006.01); **G01S 13/931** (2020.01)

CPC (source: EP US)

G01S 7/282 (2013.01 - EP US); **G01S 13/0209** (2013.01 - EP US); **G01S 13/931** (2013.01 - EP US); **G01S 2013/9314** (2013.01 - EP US)

Citation (search report)

See references of WO 0248735A1

Citation (examination)

- US 4620192 A 19861028 - COLLINS JOHN D [US]
- DE 19902185 A1 20000810 - BOSCH GMBH ROBERT [DE]

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

WO 0248735 A1 20020620; EP 1344086 A1 20030917; FR 2818385 A1 20020621; FR 2818385 B1 20040604; JP 2004515789 A 20040527; NO 20032672 D0 20030612; NO 20032672 L 20030815; US 2004061640 A1 20040401; US 7161526 B2 20070109

DOCDB simple family (application)

FR 0103927 W 20011211; EP 01270783 A 20011211; FR 0016414 A 20001215; JP 2002549989 A 20011211; NO 20032672 A 20030612; US 45004503 A 20030610