

Title (en)

METHOD AND DEVICE FOR THE REDUCTION OF JAMMING SIGNAL POWER RECEIVED BY THE SIDE LOBES OF A RADAR ANTENNA

Publication

**EP 0097073 B1 19890104 (FR)**

Application

**EP 83401063 A 19830526**

Priority

FR 8209257 A 19820527

Abstract (en)

[origin: CA1219324A] METHOD AND APPARATUS FOR REDUCING THE POWER OF JAMMING SIGNALS RECEIVED BY RADAR ANTENNA SIDELOBES Secondary lobe cancellation (SLC) is used to reduce the power of jamming signals received by the sidelobes of a main radar antenna. The signal from the radiation pattern of the main antenna is summed with signals from auxiliary radiation patterns. Each auxiliary pattern is chosen to be directional, to have a null or at least a gain minimum in the direction of maximum radiation in the main antenna pattern, to have its phase center close to that of the main antenna pattern, and to have gain minimums in those directions for which the sidelobes of the main antenna pattern are low enough to be insensitive to jamming signals. The various patterns may all be derived from an array antenna, eg. a multibeam antenna, an aplanatic lens antenna, or a chandelier fed antenna.

IPC 1-7

**H01Q 3/26**

IPC 8 full level

**H01Q 3/26** (2006.01)

CPC (source: EP US)

**H01Q 3/2635** (2013.01 - EP US)

Cited by

GB2251728A; GB2251728B; EP0156685A1; FR2560445A1

Designated contracting state (EPC)

DE GB IT NL

DOCDB simple family (publication)

**FR 2527785 A1 19831202; FR 2527785 B1 19850118;** CA 1219324 A 19870317; DE 3378873 D1 19890209; EP 0097073 A1 19831228; EP 0097073 B1 19890104; US 4672378 A 19870609

DOCDB simple family (application)

**FR 8209257 A 19820527;** CA 428753 A 19830524; DE 3378873 T 19830526; EP 83401063 A 19830526; US 49656383 A 19830520