Title (en)

Method and device for enlragement of the radiation diagram for an active antenna

Title (de)

Verfahren und Vorrichtung zur Verbreiterung des Strahlungsdiagramms einer aktiven Antenne

Title (fr)

Procédé et dispositif d'élargissement du diagramme de rayonnement d'une antenne active

Publication

EP 0703638 A1 19960327 (FR)

Application

EP 95402101 A 19950919

Priority

FR 9411377 A 19940923

Abstract (en)

The method involves dividing an antenna into a number (n) of adjacent parts. A number of elements of a divided signal are applied to the parts according to a predetermined phase law. On reception, a number of beams are formed simultaneously. Each beam formed has an angular width equal to n times the angular width for the complete antenna. The relative dephasing of the beams is because each beam follows a different law. The beams are displaced to cover the angular domain desired.

Abstract (fr)

Le procédé d'élargissement de l'invention consiste à diviser l'antenne radar en n groupes de colonnes de modules actifs (MA), à appliquer, en émission, une loi de phase linéaire différente à chaque groupe, et en réception à former n² faisceaux simultanés, chacun ayant la largeur angulaire nominale de l'antenne complète, et à déplacer globalement ces faisceaux pour couvrir le domaine angulaire dans lequel l'énergie a été rayonnée à l'émission. <IMAGE>

IPC 1-7

H01Q 25/00; H01Q 21/22; H01Q 3/36

IPC 8 full level

H01Q 3/36 (2006.01); **H01Q 21/22** (2006.01); **H01Q 25/00** (2006.01)

CPC (source: EP US)

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Citation (search report)

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DOCDB simple family (application)

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