

Title (en)

Antenna architecture implementing a synthesis of beams with samplers at variable pitch

Title (de)

Antennenarchitektur, die eine Synthese von Strahlen mit verstellbaren Abtastern nutzt

Title (fr)

Architecture d'antenne mettant en jeu une synthèse de faisceaux avec des échantillonneurs à pas variable

Publication

EP 2320522 B1 20120314 (FR)

Application

EP 10187135 A 20101011

Priority

FR 0905031 A 20091020

Abstract (en)

[origin: EP2320522A1] The system has a set of light beam sources forming a focal array (RF), where the sources are spaced at a sampling pitch. Each source presents a misalignment angle lower than or equal to 7 degrees. An antenna presents directivity, gain and noise equivalent temperature. The sampling pitch is variable, and configured in a manner to optimize directivity of the antenna depending on the misalignment angle of the sources and to maintain constant gain ratio on the noise equivalent temperature. Crowns are arranged on both sides of a part of the sources. An independent claim is also included for a method for dimensioning an antenna system.

IPC 8 full level

H01Q 21/22 (2006.01)

CPC (source: EP)

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Designated contracting state (EPC)

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DOCDB simple family (publication)

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