

Title (en)

BEAMFORMING CIRCUIT AND ANTENNA SYSTEM INCLUDING SUCH A CIRCUIT

Title (de)

STRAHLFORMUNGSSCHALTUNG UND ANTENNENSYSTEM MIT DERARTIGER SCHALTUNG

Title (fr)

CIRCUIT FORMATEUR DE FAISCEAU ET SYSTÈME D'ANTENNE COMPRENANT UN TEL CIRCUIT

Publication

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Application

**EP 11807775 A 20111214**

Priority

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- IB 2011055670 W 20111214

Abstract (en)

[origin: WO2012085768A1] The invention relates to a beamforming circuit for a phased-array antenna including a straight line of electronic oscillators with coupled radio frequencies (VC01 - VC05), wherein at least two oscillators (VC01, VC05) located at the ends of said line have a variable free-oscillation frequency, said circuit being characterised in that said oscillators are differential oscillators, each of said oscillators being suitable for generating a first so-called positive oscillating signal (FP1) and a second so-called negative oscillating signal (F?1) which have opposite phases. The invention relates to a phased-array antenna system including a beamforming circuit according to one of the preceding claims, as well as to a plurality of antenna elements (EA1 - EA5) arranged so as to form a phased array powered by said circuit.

IPC 8 full level

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