

Title (en)

Programmable antenna having a programmable substrate

Title (de)

Programmierbare Antenne mit einem programmierbaren Substrat

Title (fr)

Antenne programmable ayant un substrat programmable

Publication

**EP 2642594 A2 20130925 (EN)**

Application

**EP 13001204 A 20130311**

Priority

- US 201261614066 P 20120322
- US 201213600098 A 20120830

Abstract (en)

An antenna circuit includes a substrate, an antenna, and a projected artificial magnetic mirror (PAMM). The antenna is fabricated on the substrate and is positioned in a region of the substrate that has a high permittivity. The PAMM produces an artificial magnetic conductor at a distance above a surface of the substrate to facilitate a radiation pattern for the antenna.

IPC 8 full level

**H01Q 1/38** (2006.01); **H01Q 15/00** (2006.01)

CPC (source: EP KR)

**H01Q 1/24** (2013.01 - KR); **H01Q 1/38** (2013.01 - EP KR); **H01Q 15/002** (2013.01 - EP); **H01Q 15/008** (2013.01 - EP)

Cited by

CN111864399A

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**EP 2642594 A2 20130925**; **EP 2642594 A3 20131030**; **EP 2642594 B1 20180905**; CN 103326107 A 20130925; CN 103326107 B 20160810; CN 203351733 U 20131218; HK 1186846 A1 20140321; KR 101502608 B1 20150313; KR 20130108180 A 20131002; TW 201345047 A 20131101; TW I525903 B 20160311

DOCDB simple family (application)

**EP 13001204 A 20130311**; CN 201310095268 A 20130322; CN 201320135707 U 20130322; HK 13114073 A 20131219; KR 20130030827 A 20130322; TW 102108519 A 20130311