

Title (en)

ANTENNA APPARATUS FOR RADIO-FREQUENCY ELECTROMAGNETIC WAVES

Title (de)

ANTENNENVORRICHTUNG FÜR HOCHFREQUENTE ELEKTROMAGNETISCHE WELLEN

Title (fr)

DISPOSITIF D'ANTENNE POUR ONDES ÉLECTROMAGNÉTIQUES À HAUTES FRÉQUENCES

Publication

EP 2332215 B1 20170705 (DE)

Application

EP 09740255 A 20090903

Priority

- DE 2009001238 W 20090903
- DE 102008046975 A 20080912

Abstract (en)

[origin: WO2010028625A1] A very flat antenna apparatus (10) for radio-frequency electromagnetic waves has a plurality of individual antenna apparatuses. The antenna apparatus (10) is designed as a transmission type comprising a plurality of planar layers, wherein the antenna apparatus (10) has at least an introduction layer (20), a first phase shift layer (30) with phase shifter devices (32), a radiation layer (60) and a distribution network (36, 58), and wherein the layers (20, 30, 40, 60) are aperture-coupled.

IPC 8 full level

H01Q 3/46 (2006.01)

CPC (source: EP)

H01Q 3/46 (2013.01)

Citation (examination)

DE 60126899 T2 20071031 - SAGEM COMM [FR]

Designated contracting state (EPC)

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 SE SI SK SM TR

DOCDB simple family (publication)

WO 2010028625 A1 20100318; DE 102008046975 A1 20100325; DE 102008046975 B4 20140724; EP 2332215 A1 20110615; EP 2332215 B1 20170705

DOCDB simple family (application)

DE 2009001238 W 20090903; DE 102008046975 A 20080912; EP 09740255 A 20090903