

Title (en)
LOW-COST ANTENNA ARRAY

Title (de)
KOSTENGÜNSTIGE ARRAYANTENNE

Title (fr)
RESEAU D'ANTENNES BON MARCHE

Publication
EP 1588455 A1 20051026 (EN)

Application
EP 03708900 A 20030131

Priority
US 0302752 W 20030131

Abstract (en)
[origin: WO2004070878A1] A low-cost antenna array and method of manufacturing the array, in a planar form or in a structurally flexible or curved array structure are shown. The antenna array has a plurality of metallic antenna electrical and radiator elements formed on a foam core layer bonded onto a metallic ground layer. The radiator elements preferably are formed on a thin dielectric carrier layer bonded to the foam core layer. The array can include one or more additional dielectric layers, each with a plurality of parasitic radiator elements formed thereon, mounted on top of the electrical elements. Manufacturing the array preferably includes bonding the layers to one another. The electrical and radiator elements are formed, preferably by etching, before the foam core layer is bonded to the ground layer. The additional dielectric layer and the parasitic radiators then are bonded to the already formed electrical elements on the ground layer.

IPC 1-7
H01Q 21/08; **H01Q 1/24**

IPC 8 full level
H01Q 1/24 (2006.01); **H01Q 21/08** (2006.01)

CPC (source: EP)
H01Q 1/246 (2013.01); **H01Q 21/08** (2013.01)

Citation (search report)
See references of WO 2004070878A1

Cited by
US9520643B2

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT SE SI SK TR

DOCDB simple family (publication)
WO 2004070878 A1 20040819; AU 2003212859 A1 20040830; BR 0317194 A 20051129; CN 1736000 A 20060215; EP 1588455 A1 20051026; JP 2006514463 A 20060427

DOCDB simple family (application)
US 0302752 W 20030131; AU 2003212859 A 20030131; BR 0317194 A 20030131; CN 03825885 A 20030131; EP 03708900 A 20030131; JP 2004567957 A 20030131