

Title (en)  
Space-filling miniature antennas

Title (de)  
raumfüllende miniaturantennen

Title (fr)  
antennes miniatures de remplissage d'espace

Publication  
**EP 1724874 A2 20061122 (EN)**

Application  
**EP 06120498 A 20000119**

Priority  
• EP 05012854 A 20000119  
• EP 00909089 A 20000119

Abstract (en)  
A novel geometry, the geometry of Space-Filling Curves (SFC) is defined in the present invention and it is used to shape a part of an antenna. By means of this novel technique, the size of the antenna can be reduced with respect to prior art, or alternatively, given a fixed size the antenna can operate at a lower frequency with respect to a conventional antenna of the same size.

IPC 8 full level  
**H01Q 1/24** (2006.01); **H01Q 1/36** (2006.01); **H01Q 1/38** (2006.01); **H01Q 9/04** (2006.01)

CPC (source: EP)  
**H01Q 1/243** (2013.01); **H01Q 1/246** (2013.01); **H01Q 1/36** (2013.01); **H01Q 1/38** (2013.01); **H01Q 9/0407** (2013.01)

Citation (applicant)  
R.C.HANSEN: "Fundamental Limitations on Antennas", PROC.IEEE, vol. 69, no. 2, February 1981 (1981-02-01)

Designated contracting state (EPC)  
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

Designated extension state (EPC)  
AL BA HR MK YU

DOCDB simple family (publication)  
**EP 1699110 A2 20060906**; **EP 1699110 A3 20061115**; EP 1724874 A2 20061122; EP 1724874 A3 20070725; EP 2267838 A2 20101229; EP 2267838 A3 20110504

DOCDB simple family (application)  
**EP 06007350 A 20000119**; EP 06120498 A 20000119; EP 10180798 A 20000119