

Title (en)

INHOMOGENEOUS LENS WITH MAXWELL'S FISH-EYE TYPE GRADIENT INDEX, ANTENNA SYSTEM AND CORRESPONDING APPLICATIONS

Title (de)

INHOMOGENE LINSE MIT GRADIENTENINDEX DES MAXWELLSCHEN FISCHAUGETYPS, ANTENNENSYSTEM UND ENTSPRECHENDE ANWENDUNGEN

Title (fr)

LENTILLE INHOMOGENE A GRADIENT D'INDICE DE TYPE OEIL DE POISSON DE MAXWELL, SYSTEME D'ANTENNE ET APPLICATIONS CORRESPONDANTS

Publication

EP 1900064 A1 20080319 (FR)

Application

EP 06764069 A 20060705

Priority

- EP 2006063912 W 20060705
- FR 0507188 A 20050705

Abstract (en)

[origin: WO2007003653A1] The invention concerns an inhomogeneous lens with Maxwell's Fish-eye type gradient index (1), made in the shape of a hemisphere. The invention is characterized in that the lens comprises N hemispheric concentric shells (2 to 4), with different discrete dielectric constants and mutually interlaced without void between the two successive shells, with $3 = N = 20$, the discrete dielectric constants of the N shells being such that they define a discrete distribution close to the theoretical distribution of the index inside the lens.

IPC 8 full level

H01Q 19/06 (2006.01)

CPC (source: EP US)

H01Q 19/06 (2013.01 - EP US); **H01Q 19/062** (2013.01 - EP US)

Citation (search report)

See references of WO 2007003653A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

FR 2888407 A1 20070112; FR 2888407 B1 20090821; EP 1900064 A1 20080319; EP 1900064 B1 20190410; US 2010134368 A1 20100603; WO 2007003653 A1 20070111

DOCDB simple family (application)

FR 0507188 A 20050705; EP 06764069 A 20060705; EP 2006063912 W 20060705; US 99476906 A 20060705