

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)

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