Title (en)

METHOD OF CHARACTERIZING THE ANISOTROPY OF A SCATTERING MEDIUM AND DEVICE FOR IMPLEMENTING SUCH A METHOD

Title (de)

VERFAHREN ZUM CHARAKTERISIEREN DER ANISOTROPIE EINES STREUENDEN MEDIUMS UND EINRICHTUNG ZUM IMPLEMENTIEREN EINES SOLCHEN VERFAHRENS

Title (fr)

PROCEDE DE CARACTERISATION DE L'ANISOTROPIE D'UN MILIEU DIFFUSANT ET DISPOSITIF POUR LA MISE EN UVRE D'UN TEL PROCEDE

Publication

EP 2038622 A1 20090325 (FR)

Application

EP 07788888 A 20070613

Priority

• FR 2007000983 W 20070613
• FR 0605600 A 20060622

Abstract (en)

[origin: WO2007147959A1] The invention relates to a method of characterizing a scattering medium. According to the invention, the processing on the electromagnetic radiation scattered by the scattering medium is carried out for an unpolarized signal. In this way, only the anisotropic incoherent transport of radiation induced by the scattering medium is obtained in the characterization according to the invention. According to the invention, the data representative of the angular variation of the first image representing the unpolarized scattered radiation is representative of the purely isotropic part of the scattering. Having obtained this purely isotropic part, it is then possible, according to the invention, to calculate a second image representative of the non-isotropic part of the scattering. This non-isotropic part represents the anisotropic transport of radiation induced by the medium at the moment of scattering.

IPC 8 full level

G01J 4/00 (2006.01)

CPC (source: EP US)

G01N 21/21 (2013.01 - EP US)

Citation (search report)

See references of WO 2007147959A1

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 MT NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK RS

DOCDB simple family (publication)

FR 2902877 A1 20071228; **FR 2902877 B1 20080912**; EP 2038622 A1 20090325; JP 2009541727 A 20091126; US 2010067006 A1 20100318; US 8199323 B2 20120612; WO 2007147959 A1 20071227; WO 2007147959 A8 20080228

DOCDB simple family (application)

FR 0605600 A 20060622; EP 07788888 A 20070613; FR 2007000983 W 20070613; JP 2009515908 A 20070613; US 30560407 A 20070613