

Title (en)

METHOD AND APPARATUS FOR THE CHARACTERIZATION OF TISSUE OF EPITHELIAL LINED VISCUS

Title (de)

VERFAHREN UND VORRICHTUNG ZUR DARSTELLUNG VON MERKMALEN DER HAUTSCHICHT VON HOHLORGANEN

Title (fr)

PROCEDE ET APPAREIL PERMETTANT DE CARACTERISER LES TISSUS DE VISCERES EPITHELIALES TAPISSEES

Publication

EP 0925015 A1 19990630 (EN)

Application

EP 97937053 A 19970731

Priority

- US 9713300 W 19970731
- US 69347196 A 19960802

Abstract (en)

[origin: WO9805253A1] A method and apparatus for characterizing tissue of epithelial lined viscus in vivo including, for example, the endocervical canal. The method comprises illuminating an interior surface of the viscus with electromagnetic radiation wavelengths to produce a plurality of fluorescence intensity spectra, detecting a plurality of emission wavelengths from the fluorescence intensity spectra, and characterizing the epithelial viscus tissue as a function of the emission wavelengths. The apparatus includes a light source (17, 18) of emitting a plurality of electromagnetic radiation wavelengths, an optical probe (11) connected to the light source, the probe (11) being adapted to apply the plurality of electromagnetic radiation wavelengths to an interior surface of epithelial viscus tissue under test and to gather fluorescence emitted from the tissue, a detector (24, 26) connected to the probe for detecting at least one fluorescence spectrum emitted from the tissue under test and a programmed computer (29) connected to the detector for processing the at least one fluorescence spectrum according to a predetermined algorithm to characterize the tissue under test.

IPC 1-7

A61B 5/00

IPC 8 full level

A61B 10/00 (2006.01); **A61B 1/00** (2006.01); **A61B 1/303** (2006.01); **A61B 1/307** (2006.01); **A61B 1/31** (2006.01); **A61B 5/00** (2006.01)

CPC (source: EP)

A61B 5/0071 (2013.01); **A61B 5/0084** (2013.01)

Citation (search report)

See references of WO 9805253A1

Designated contracting state (EPC)

AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

WO 9805253 A1 19980212; CA 2264870 A1 19980212; CA 2264870 C 20050726; EP 0925015 A1 19990630; JP 2000515407 A 20001121; JP 2008100064 A 20080501

DOCDB simple family (application)

US 9713300 W 19970731; CA 2264870 A 19970731; EP 97937053 A 19970731; JP 2007267232 A 20071012; JP 50802398 A 19970731