

Title (en)  
IMAGING OF TISSUE USING POLARIZED LIGHT

Title (de)  
ABBILDUNG VON GEWEBE MIT HILFE POLARISIERTEN LICHTS

Title (fr)  
IMAGERIE DE TISSUS AU MOYEN DE LUMIERE POLARISEE

Publication  
**EP 1153280 A2 20011114 (EN)**

Application  
**EP 00904542 A 20000125**

Priority  
• US 0001764 W 20000125  
• US 11722199 P 19990125

Abstract (en)  
[origin: WO0043750A2] The present invention relates to the differential detection of directly backscattered light from epithelial tissues in order to determine the cell nuclear size distribution for the purpose of detecting tissue dysplasia. Light directly backscattered from surface tissue is differentiated from the light backscattered from underlying tissue by means of polarization, angular distribution or both. Both point measurement embodiments and imaging embodiments are presented. Optical systems for delivery and collection of light include endoscopic and fiber optic systems.

IPC 1-7  
**G01N 21/21**; **G01N 21/49**

IPC 8 full level  
**G01N 21/21** (2006.01); **A61B 5/00** (2006.01); **A61B 10/00** (2006.01); **G01N 21/00** (2006.01); **G01N 21/27** (2006.01); **G01N 21/47** (2006.01); **G01N 21/49** (2006.01); **G02B 23/26** (2006.01)

CPC (source: EP KR)  
**A61B 1/00096** (2013.01 - EP); **A61B 1/00097** (2022.02 - EP); **A61B 1/00172** (2013.01 - EP); **A61B 1/00186** (2013.01 - EP); **A61B 5/0075** (2013.01 - EP); **G01N 21/00** (2013.01 - KR); **G02B 23/243** (2013.01 - EP); **G02B 23/2469** (2013.01 - EP); **G01N 21/49** (2013.01 - EP); **G01N 2021/4704** (2013.01 - EP); **G01N 2021/4792** (2013.01 - EP)

Citation (search report)  
See references of WO 0043750A2

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

DOCDB simple family (publication)  
**WO 0043750 A2 20000727**; **WO 0043750 A3 20001123**; **WO 0043750 A9 20010830**; AU 2628200 A 20000807; CA 2371782 A1 20000727; CN 1341209 A 20020320; EP 1153280 A2 20011114; HK 1041727 A1 20020719; JP 2002535645 A 20021022; KR 20010110346 A 20011213; NZ 513118 A 20040227

DOCDB simple family (application)  
**US 0001764 W 20000125**; AU 2628200 A 20000125; CA 2371782 A 20000125; CN 00804259 A 20000125; EP 00904542 A 20000125; HK 02103359 A 20020503; JP 2000595125 A 20000125; KR 20017009360 A 20010725; NZ 51311800 A 20000125