

Title (en)
WIDE ANGLE SCATTERING DETECTOR

Title (de)
DETEKTOR FÜR WEITWINKELSTREUUNG

Title (fr)
DETECTEUR DE DISPERSION GRAND ANGLE

Publication
EP 0830586 A1 19980325 (EN)

Application
EP 96920356 A 19960521

Priority
• US 9607374 W 19960521
• US 45203595 A 19950526

Abstract (en)
[origin: WO9637767A1] The present invention is a novel apparatus for the detection and analysis of widely scattered light that impinges on a sample target. The presently claimed apparatus operates in conjunction with a light system that focuses light (40) into a sample target (42). The sample target (42) comprises a translucent material that allows internal reflection of light at some given critical angle (i.e. a wide angle). The presently claimed apparatus comprises: a supporting structure (44), said structure supporting said sample target; at least one optical fiber (50) each fiber having a first and a second end, the first end being placed proximate to the side surface of the sample target (42) such that light scattered and transmitted through the side surface proximate to the side surface is collected by the first end; a photomultiplier tube (52) coupled to at least one second end of said optical fibers.

IPC 1-7
G01N 21/47; **G01N 21/55**; **G01N 15/14**

IPC 8 full level
G01N 21/64 (2006.01); **G01N 15/14** (2006.01); **G01N 21/17** (2006.01); **G01N 21/27** (2006.01); **G01N 21/47** (2006.01); **G01N 21/55** (2006.01); **G01N 27/447** (2006.01)

CPC (source: EP)
G01N 15/1433 (2024.01); **G01N 21/474** (2013.01); **G01N 21/552** (2013.01); **G01N 21/645** (2013.01); **G01N 2021/4707** (2013.01); **G01N 2021/4728** (2013.01); **G01N 2021/4735** (2013.01)

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 9637767 A1 19961128; AU 5869296 A 19961211; EP 0830586 A1 19980325; JP H11505928 A 19990525

DOCDB simple family (application)
US 9607374 W 19960521; AU 5869296 A 19960521; EP 96920356 A 19960521; JP 53582096 A 19960521