

Title (en)

APPARATUS FOR MEASURING THE EVOLUTION OF OPTICAL CHARACTERISTICS IN A CIRCULATING LIQUID OR GAS MEDIUM

Title (de)

VORRICHTUNG ZUR BESTIMMUNG DER OPTISCHEN EIGENSCHAFTEN EINES ZIRKULIERENDEN FLÜSSIGEN ODER GASFÖRMIGEN MEDIUMS

Title (fr)

APPAREIL DE MESURE DE L'EVOLUTION DES CARACTERISTIQUES OPTIQUES D'UN MILIEU LIQUIDE OU GAZEUX EN CIRCULATION

Publication

EP 0983502 A1 20000308 (FR)

Application

EP 98925739 A 19980519

Priority

- FR 9800992 W 19980519
- FR 9706315 A 19970523

Abstract (en)

[origin: FR2763685A1] The invention concerns an apparatus for measuring the evolution of optical characteristics in a circulating liquid or gas medium, by directly measuring the light diffused through the medium, said apparatus comprising: a sensor (100) with a passage (111) traversed by the medium to be measured; a monochromatic light source stabilised on a wavelength (112) directed through (XX) the passage (111); a photodetector (121) aligned on the source (112) on the other side of the passage (111); a flow meter (140); an operating circuit (200) consisting of a circuit powering (115) the laser (112) and formatting (210) the photodetector (100) signals, and a processing circuit (220) to evaluate the sensor (100) and flow meter signals and supply representative data. The apparatus simultaneously measures the cloudiness, the flow rate, the temperature and counts the particles suspended in the fluid.

IPC 1-7

G01N 21/53

IPC 8 full level

G01N 15/06 (2006.01); **G01N 21/15** (2006.01); **G01N 21/53** (2006.01); **G01N 21/59** (2006.01)

CPC (source: EP)

G01N 21/534 (2013.01)

Citation (search report)

See references of WO 9853302A1

Designated contracting state (EPC)

AT CH DE DK ES FI GB IE IT LI NL SE

DOCDB simple family (publication)

FR 2763685 A1 19981127; **FR 2763685 B1 19990723**; AU 7774398 A 19981211; CA 2290674 A1 19981126; EP 0983502 A1 20000308; JP 2001526785 A 20011218; WO 9853302 A1 19981126

DOCDB simple family (application)

FR 9706315 A 19970523; AU 7774398 A 19980619; CA 2290674 A 19980519; EP 98925739 A 19980519; FR 9800992 W 19980519; JP 55004598 A 19980519