

Title (en)  
TECHNICAL DEVICE COMBINATION FOR MEASURING MATERIAL CONCENTRATION AND TEMPERATURE PROFILE BASED ON FIBRE BRAGG GRATINGS IN OPTICAL FIBRES

Title (de)  
APPARATETECHNISCHE KOMBINATION EINER NIR-STOFFKONZENTRATIONSMESSUNG MIT EINER AUF FASER-BRAGG-GITTERN IN GLASFASERN BERUHENDEN TEMPERATURPROFILMESSUNG

Title (fr)  
COMBINAISON D'APPAREILS DESTINES A UNE MESURE DE CONCENTRATION DE MATIERE ET A UNE MESURE D'UN PROFIL DE TEMPERATURES SUR LA BASE DE RESEAUX DE BRAGG A FIBRES DANS DES FIBRES OPTIQUES

Publication  
**EP 1851531 A1 20071107 (DE)**

Application  
**EP 06700471 A 20060117**

Priority  
• EP 2006000357 W 20060117  
• DE 102005003989 A 20050128  
• DE 102005004293 A 20050128  
• DE 102005010216 A 20050305

Abstract (en)  
[origin: DE102005010216A1] The arrangement has a detector and a signal evaluator/controller provided for combining a proximal infrared spectroscopy for measuring material concentrations with the spectroscopy of a glass fiber and fitted with fiber Bragg gratings for measuring temperature profiles. An interferometer of a Fourier-transform-spectrometer is arranged between an output of a measuring section and the detector. An independent claim is also included for a method for determining material concentrations and temperature and/or profiles.

IPC 8 full level  
**G01N 21/35** (2006.01); **G01K 11/32** (2006.01)

CPC (source: EP US)  
**G01D 5/35303** (2013.01 - EP US); **G01K 11/3206** (2013.01 - EP US); **G01N 21/359** (2013.01 - EP US)

Citation (search report)  
See references of WO 2006079466A1

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 NL PL PT RO SE SI SK TR

DOCDB simple family (publication)  
**DE 102005010216 A1 20060803**; EP 1851531 A1 20071107; JP 2008528983 A 20080731; JP 5026988 B2 20120919; US 2008088822 A1 20080417; US 7728960 B2 20100601; WO 2006079466 A1 20060803

DOCDB simple family (application)  
**DE 102005010216 A 20050305**; EP 06700471 A 20060117; EP 2006000357 W 20060117; JP 2007552552 A 20060117; US 81403006 A 20060117