

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
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• 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)

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