Title (en)

SYSTEMS AND METHODS FOR MONITORING A FLOW PATH

Title (de)

SYSTEME UND VERFAHREN ZUR ÜBERWACHUNG EINES STRÖMUNGSWEGES

Title (fr)

SYSTÈMES ET PROCÉDÉS DE SURVEILLANCE D'UN PARCOURS D'ÉCOULEMENT

Publication

EP 2872875 A4 20160727 (EN)

Application

EP 13837413 A 20130910

Priority

- US 201213616106 A 20120914
- US 2013058864 W 20130910

Abstract (en)

[origin: WO2014043057A1] Disclosed are systems and methods for analyzing a flow of a fluid at two or more discrete locations to determine the concentration of a substance therein. One method of determining a characteristic of a fluid may include containing a fluid within a flow path that provides at least a first monitoring location and a second monitoring location, generating a first output signal corresponding to the characteristic of the fluid at the first monitoring location with a first optical computing device, generating a second output signal corresponding to the characteristic of the fluid at the second monitoring location with a second optical computing device, receiving first and second output signals from the first and second optical computing devices, respectively, with a signal processor, and determining a difference between the first and second output signals with the signal processor.

IPC 8 full level

G01N 21/85 (2006.01); G01N 21/31 (2006.01); G01N 21/84 (2006.01)

CPC (source: EP)

G01N 21/85 (2013.01); G01N 21/31 (2013.01); G01N 2021/3137 (2013.01); G01N 2021/317 (2013.01); G01N 2021/3196 (2013.01); G01N 2021/8411 (2013.01)

Citation (search report)

- [XP] WO 2013022570 A2 20130214 - HALLIBURTION ENERGY SEVICES INC [US], et al
- [X] WO 9409266 A1 19940428 - IRIS GMBH INFRARED & INTELLIGE [DE], et al
- [IY] US 2012150451 A1 20120614 - SKINNER NEAL G [US], et al
- [Y] US 2011023588 A1 20110203 - WESTNER HANS [DE], et al
- [A] US 2005088653 A1 20050428 - COATES JOHN [US], et al
- [A] WO 2007062001 A2 20070531 - BOC GROUP INC [US], et al
- See references of WO 2014043057A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

WO 2014043057 A1 20140320; AU 2013315789 A1 20150226; BR 112015003473 A2 20170704; BR 112015003473 B1 20210309; CA 2882203 A1 20140320; EP 2872875 A1 20150520; EP 2872875 A4 20160727; MX 2015002059 A 20150605; MX 342276 B 20160922; NZ 704576 A 20160527; SA 515360081 B1 20160526; SG 11201501174P A 20150528

DOCDB simple family (application)

US 2013058864 W 20130910; AU 2013315789 A 20130910; BR 112015003473 A 20130910; CA 2882203 A 20130910; EP 13837413 A 20130910; MX 2015002059 A 20130910; NZ 70457613 A 20130910; SA 515360081 A 20150226; SG 11201501174P A 20130910