

Title (en)

METHOD AND APPARATUS FOR SILOXANE MEASUREMENTS IN A BIOGAS

Title (de)

VERFAHREN UND VORRICHTUNG FÜR SILOXANMESSUNGEN IN EINEM BIOGAS

Title (fr)

PROCÉDÉ ET APPAREIL DESTINÉS À DES MESURES DE SILOXANE DANS UN BIOGAZ

Publication

**EP 2805148 A1 20141126 (EN)**

Application

**EP 13704840 A 20130117**

Priority

- US 201261587391 P 20120117
- US 72054210 A 20100309
- US 2013021899 W 20130117

Abstract (en)

[origin: WO2013109728A1] A method is provided for monitoring one or more silicon-containing compounds present in a biogas, in particular siloxane and trimethyl-silanol. The method includes generating a first absorption spectrum based on a ratio of a first spectral measurement and a second spectral measurement. The first spectral measurement is from a non-absorptive gas having substantially no infrared absorptions in a specified wavelength range of interest and the second spectral measurement is from a sample gas comprising the biogas. The method includes generating at least one surrogate absorption spectrum based on, at least, individual absorption spectrum for each of a subset of one or more silicon-containing compounds selected from a larger set of known silicon-containing compounds with known concentrations. A total concentration of the one or more silicon-containing compounds in the biogas can be calculated based on the first absorption spectrum and the at least one surrogate absorption spectrum.

IPC 8 full level

**G01N 21/35** (2014.01); **G01N 21/03** (2006.01)

CPC (source: EP)

**G01N 21/031** (2013.01); **G01N 21/3504** (2013.01); **G01N 2021/3595** (2013.01); **G01N 2201/1293** (2013.01)

Citation (search report)

See references of WO 2013109728A1

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 2013109728 A1 20130725**; EP 2805148 A1 20141126; KR 20140119739 A 20141010

DOCDB simple family (application)

**US 2013021899 W 20130117**; EP 13704840 A 20130117; KR 20147022858 A 20130117