

Title (en)

METHOD FOR DETECTING A FLUID AND ASSOCIATED SYSTEM

Title (de)

VERFAHREN ZUR DETEKTION EINES FLUIDS UND ZUGEHÖRIGES SYSTEM

Title (fr)

PROCÉDÉ DE DÉTECTION D'UN FLUIDE ET SYSTÈME ASSOCIÉ

Publication

**EP 3841407 A1 20210630 (FR)**

Application

**EP 19755919 A 20190821**

Priority

- FR 1857560 A 20180821
- EP 2019072343 W 20190821

Abstract (en)

[origin: WO2020038985A1] The invention relates to a method for detecting a fluid, comprising at least one step of: - measuring, by at least one sensor (12), a wave propagating in an environment (11) of the wave, in order to obtain at least one measured signal, the wave particularly being a mechanical wave; - splitting the measured signal over a plurality of splitting time intervals with a predefined duration in order to obtain samples of the measured signal; - computing the temporal coherence of the samples; and - determining the presence of the fluid using the computed temporal coherence.

IPC 8 full level

**G01V 1/36** (2006.01); **G01V 1/28** (2006.01); **G01V 1/30** (2006.01)

CPC (source: EP US)

**G01V 1/28** (2013.01 - EP); **G01V 1/30** (2013.01 - US); **G01V 1/306** (2013.01 - EP); **G01V 1/364** (2013.01 - US); **G01V 1/366** (2013.01 - EP); **G01V 2210/60** (2013.01 - US); **G01V 2210/61** (2013.01 - US); **G01V 2210/612** (2013.01 - EP)

Citation (search report)

- [A] WO 2016063125 A1 20160428 - CGG SERVICES SA [FR]
- [X] CHRISTOPHE VOISIN ET AL: "Groundwater Monitoring with Passive Seismic Interferometry", JOURNAL OF WATER RESOURCE AND PROTECTION, vol. 09, no. 12, 29 November 2017 (2017-11-29), pages 1414 - 1427, XP055587900, ISSN: 1945-3094, DOI: 10.4236/jwarp.2017.912091
- [A] CHRISTOPHE VOISIN ET AL: "Seismic noise monitoring of the water table in a deep-seated, slow-moving landslide", INTERPRETATION, vol. 4, no. 3, 1 August 2016 (2016-08-01), US, pages SJ67 - SJ76, XP055587970, ISSN: 2324-8858, DOI: 10.1190/INT-2016-0010.1
- See also references of WO 2020038985A1

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US2021318459A1; US11971516B2

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

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**WO 2020038985 A1 20200227**; EP 3841407 A1 20210630; FR 3085212 A1 20200228; FR 3085212 B1 20200807; US 11971516 B2 20240430; US 2021318459 A1 20211014

DOCDB simple family (application)

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