

Title (en)

DEVICE AND METHOD FOR DETERMINING AN ELEMENTAL COMPOSITION OF GROUND

Title (de)

VORRICHTUNG UND VERFAHREN ZUM ERMITTELN EINER ELEMENTZUSAMMENSETZUNG EINES BODENS

Title (fr)

DISPOSITIF ET PROCÉDÉ DE DÉTERMINATION D'UNE COMPOSITION ÉLÉMENTAIRE D'UN SOL

Publication

**EP 3948230 A1 20220209 (DE)**

Application

**EP 20716407 A 20200325**

Priority

- DE 102019109052 A 20190405
- EP 2020058388 W 20200325

Abstract (en)

[origin: WO2020200967A1] The invention relates to a method for determining an elemental composition of ground (1) according to the depth (t), comprising: - taking a core sample (2) of the ground (1), and - determining the elemental composition of the ground (1) according to the depth (t) by analysing the core sample (2) taken by means of laser-induced breakdown spectroscopy, LIBS. With the described method and with the described device (3), it is possible to analyse ground (1), for example, a field used for agriculture or a building ground to be examined for pollutants. The quality of the ground (1) can be determined particularly efficiently and reliably comprehensively by analysis by means of PGNA, PFTNA and/or LIBS.

IPC 8 full level

**G01N 21/359** (2014.01); **G01N 21/71** (2006.01)

CPC (source: EP US)

**G01N 21/359** (2013.01 - EP US); **G01N 21/718** (2013.01 - EP US)

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 2020200967 A1 20201008**; AU 2020250804 A1 20211125; BR 112021020036 A2 20211207; CA 3136019 A1 20201008; CN 113892023 A 20220104; DE 102019109052 A1 20201008; EP 3948230 A1 20220209; US 202205923 A1 20220630

DOCDB simple family (application)

**EP 2020058388 W 20200325**; AU 2020250804 A 20200325; BR 112021020036 A 20200325; CA 3136019 A 20200325; CN 202080039536 A 20200325; DE 102019109052 A 20190405; EP 20716407 A 20200325; US 202017601102 A 20200325