Title (en)

DEVICE FOR OPTICAL MEASUREMENT OF A PARAMETER OF THE MATERIAL OF A PLANT SUBSTRATE

Title (de)

VORRICHTUNG ZUR OPTISCHEN MESSUNG EINES PARAMETERS DES MATERIALS EINES PFLANZSUBSTRAT

Title (fr)

DISPOSITIF DE MESURE OPTIQUE D'UN PARAMÈTRE DE LA MATIÈRE D'UN SUBSTRAT DE PLANTE

Publication

EP 3417285 A1 20181226 (EN)

Application

EP 17709820 A 20170213

Priority

- NL 2016260 A 20160215
- NL 2017050085 W 20170213

Abstract (en)

[origin: WO2017142398A1] A device for optical measurement of a parameter of the material (2,12) of a plant (5) substrate (1,11), which device comprises a measuring unit comprising a housing which comprises a hollow, pin- shaped portion (21), which pin-shaped portion has an open first end (24) and which is configured to be inserted into a substrate with said first end, and which pin-shaped portion has a second end that is located opposite the first end of the pin-shaped portion, wherein the measuring unit further comprises a stop portion (22), which connects to the second end of the pin-shaped portion and which is configured to abut with a contact side (26) thereof facing the pin-shaped portion against the upper side of the substrate into which the pin-shaped portion is inserted, wherein the device further comprises a first length of glass fibre (23) which extends at least into the pin-shaped portion and which is rigidly connected thereto, a first end of which is located near the open first end of the pin-shaped portion, wherein the device (39) that is sensitive to the physical quantity that is to be measured, wherein furthermore the first length of glass fibre is or at least can be optically connected to measuring means for measuring the parameter on the basis of light signals reflected by the coating.

IPC 8 full level

G01N 33/24 (2006.01)

CPC (source: EP US)

A01G 24/18 (2018.02 - EP US); G01N 33/24 (2013.01 - EP US); G01N 33/245 (2024.05 - EP); G01N 2021/8466 (2013.01 - EP)

Cited by

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