

Title (en)

ANALYSING DEVICE NON-DESTRUCTIVE OF PLANTS AND VEHICLE COMPRISING SUCH DEVICE ON BOARD

Title (de)

VORRICHTUNG ZUR ZERSTÖRUNGSFREIEN ANALYSE VON PFLANZEN SOWIE EIN FAHRZEUG MIT EINER SOLCHEN VORRICHTUNG AN BORD

Title (fr)

DISPOSITIF D'ANALYSE NON DESTRUCTIVE DE PLANTES ET VEHICULE COMPORTANT UN TEL DISPOSITIF EMBARQUE

Publication

**EP 1040339 A1 20001004 (FR)**

Application

**EP 98962535 A 19981221**

Priority

- FR 9802811 W 19981221
- LU 90186 A 19971222

Abstract (en)

[origin: WO9932876A1] The invention concerns an analysing device non-destructive of plants and a vehicle comprising such device on board. Said device comprises a unit (3) transmitting a calibrated excitation laser beam (6), a unit (4) measuring and imaging the fluorescence emitted by the irradiated plant(s) (2) and a unit for digitally processing, storing and editing or displaying the collected images, associated with a computer unit controlling and managing the device operation. The invention is characterised in that the transmitting unit (3) provides at least two laser excitation wavelengths and the measuring and imaging unit (4) comprises means (7, 8, 9) for forming, from a common fluorescence beam (6') emitted by the plant(s), simultaneously or successively, at least two secondary beams, each having its own wavelength and each constituting a fluorescence image at a matrix sensor (10), over the whole surface thereof or over part of the surface thereof, each image being separate for each secondary beam.

IPC 1-7

**G01N 21/64**

IPC 8 full level

**G01N 21/64** (2006.01)

CPC (source: EP US)

**G01N 21/6402** (2013.01 - EP US); **G01N 21/6456** (2013.01 - EP US); **G01N 21/6486** (2013.01 - EP US); **G01N 2021/6419** (2013.01 - EP US)

Citation (search report)

See references of WO 9932876A1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

**WO 9932876 A1 19990701**; CA 2315357 A1 19990701; EP 1040339 A1 20001004; JP 2001527213 A 20011225; LU 90186 B1 19990624; NO 20002263 D0 20000428; NO 20002263 L 20000822; US 6573512 B1 20030603

DOCDB simple family (application)

**FR 9802811 W 19981221**; CA 2315357 A 19981221; EP 98962535 A 19981221; JP 2000525745 A 19981221; LU 90186 A 19971222; NO 20002263 A 20000428; US 58210401 A 20010118