

Title (en)

METHOD AND APPARATUS FOR DETERMINING SEED QUALITY BY FLUORESCENCE

Title (de)

VERFAHREN UND VORRICHTUNG ZUR BESTIMMUNG VON SAMENQUALITÄT DURCH FLUORESCENZ

Title (fr)

PROCEDE ET APPAREIL POUR DETERMINER LA QUALITE DE SEMENCES PAR FLUORESCENCE

Publication

**EP 1076822 A1 20010221 (EN)**

Application

**EP 99917234 A 19990426**

Priority

- NL 9900244 W 19990426
- NL 1009006 A 19980427

Abstract (en)

[origin: WO9956127A1] The invention relates to a method and apparatus for analysing pre-germinating, germinated, germinating and germinated seeds and an apparatus for sorting such seeds and for determining the stage of (pre-)germination and the quality of the seeds by measuring the quantity of chlorophyll fluorescence. The invention makes it possible to construct a sorter apparatus in which the seeds are selected on the basis of the quantity of chlorophyll. As the intensity of the chlorophyll fluorescence is directly related to the conversion of the chlorophyll into chlorophyll, it will now be possible to sort the seeds as to the stage of germination and quality. It is now possible to construct an analysis apparatus in which the chlorophyll fluorescence is measured of pre-germinating, pre-germinated, germinating and germinated seeds and a distribution is made of these fluorescence signals. Tests with pepper seeds are described.

IPC 1-7

**G01N 33/52**

IPC 8 full level

**A01C 1/00** (2006.01); **A01C 1/02** (2006.01); **A01G 7/00** (2006.01); **G01N 21/64** (2006.01); **G01N 33/48** (2006.01); **G01N 33/52** (2006.01)

CPC (source: EP)

**A01C 1/00** (2013.01); **A01C 1/025** (2013.01); **G01N 33/52** (2013.01)

Citation (search report)

See references of WO 9956127A1

Cited by

DE102010030908A1; CN105036898A; DE102010030908B4; US8785586B2; WO2012001133A2

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 9956127 A1 19991104**; AU 3539399 A 19991116; BR 9910569 A 20010116; CA 2330276 A1 19991104; EP 1076822 A1 20010221; IL 139183 A0 20011125; JP 2002512816 A 20020508; NL 1009006 C2 19991028

DOCDB simple family (application)

**NL 9900244 W 19990426**; AU 3539399 A 19990426; BR 9910569 A 19990426; CA 2330276 A 19990426; EP 99917234 A 19990426; IL 1391839 A 19990426; JP 2000546237 A 19990426; NL 1009006 A 19980427