

Title (en)

APPARATUS AND METHOD FOR DETERMINING THE VIABILITY OF SEEDS.

Title (de)

VORRICHTUNG UND VERFAHREN ZUR BESTIMMUNG DER LEBENSFÄHIGKEIT VON SAMEN.

Title (fr)

APPAREIL ET PROCEDE POUR LA DETERMINATION DE LA VIABILITE DES GRAINES.

Publication

EP 0070280 A1 19830126 (FR)

Application

EP 82900212 A 19820104

Priority

FR 8101446 A 19810127

Abstract (en)

[origin: WO8202470A1] According to the invention, the apparatus and method for the viability test of seeds (3) consist in estimating or measuring the electrical characteristics of the seeds (3) in correlation with their germinative capability by placing them in a high and variable voltages electric field (A-C) in sinusoidal mode. The resulting ionization is revealed by a luminophorous substance having a low activation threshold (2) which lights up differently according to the energies of the exploring field. As to the technical embodiment, it may be simple: observation being made by eye, or more accurate: the measurement of the luminescence produced being made by means of a variable number of sensors (S', S"....), connected to an automatic monitoring and interpretation apparatus (G, H).

Abstract (fr)

Conformement a l'invention, l'appareil et le procede pour la determination de la viabilite des graines consistent a apprecier ou a mesurer les caracteristiques electriques des grains (3) en correlation avec leur faculte germinative, en les placant dans un champ electrique en regime sinusoidal de basse frequence avec tensions elevees et variables (A-C). L'ionisation qui en resulte est revelee par un luminophore avec seuil d'excitation bas (2) qui s'allume differemment selon les energies du champ explorateur. En ce qui concerne la realisation technique, elle peut etre simple: l'observation se faisant a l'oeil, ou plus precise: la mesure de la luminescence produite etant realisee a partir de capteurs en nombre variable (S', S'..), relies a un appareil de controle et d'interpretation automatique (G, H).

IPC 1-7

A01C 1/02; **G01N 21/66**

IPC 8 full level

A01C 1/02 (2006.01); **G01N 21/66** (2006.01)

CPC (source: EP)

A01C 1/025 (2013.01); **G01N 21/66** (2013.01)

Designated contracting state (EPC)

AT BE CH DE GB LI LU NL SE

DOCDB simple family (publication)

WO 8202470 A1 19820805; EP 0070280 A1 19830126; FR 2498415 A1 19820730; FR 2498415 B1 19840427

DOCDB simple family (application)

FR 8200001 W 19820104; EP 82900212 A 19820104; FR 8101446 A 19810127