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(54) Title: SYSTEM FOR TESTING THE VIABILITY OF PLANT GENETIC RESOURCES AND/OR FOR THE IDENTIFI-
CATION AND SEPARATION OF VARIETIES/GROUPS OF VARIETIES, THE RELATED METHOD AND USE THEREOF

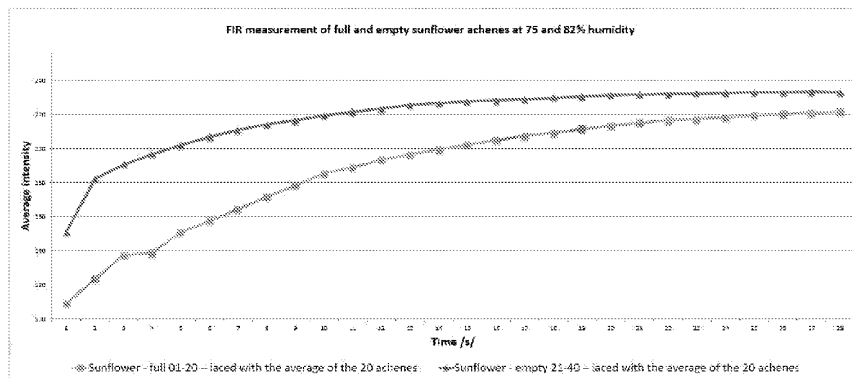


Figure 2

(57) Abstract: The present invention relates to a system for the non-destructive identification and separation of the viability and/or varieties/ variety groups of plant genetic resources, which system comprises at least the following : a space enclosed by walls; the temperature and humidity of which space can be controlled and which space contains one or more places suitable for measuring the plant genetic resources to be tested, suitable for placing trays for supporting the plant genetic resources; a thermal camera, which is positioned in such a way that it faces the place suitable for placing one or more trays suitable for storing the plant genetic resources to be measured; a computer suitable for controlling the thermal camera and for storing and, where appropriate, processing the recordings made by the thermal camera; a unit for drying the plant genetic resources to be tested; a device for cooling and storing the plant genetic resources to be tested and one or more trays suitable for measuring the plant genetic resources to be tested. The present invention also relates to a method for the non-destructive identification and separation of the viability and/or varieties/ variety groups of plant genetic resources and use thereof.

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