

Title (en)

DEVICE FOR AUTOMATIC SPECIES ANALYSIS AND METHOD FOR CARRYING OUT THE SAME

Title (de)

VORRICHTUNG ZUR AUTOMATISCHEN SPEZIESANALYSE UND VERFAHREN ZU DESSEN DURCHFÜHRUNG

Title (fr)

DISPOSITIF POUR L'ANALYSE AUTOMATIQUE DES ESPÈCES ET PROCÉDÉ POUR SA RÉALISATION

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Application

EP 17787132 A 20171006

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Abstract (en)

[origin: WO2019068352A1] The invention relates to a device for automatic species analysis and to a method for carrying out the same. In particular, the invention relates to a device for automatic species analysis within a large biological group and to a method for automatically carrying out such analyses. A device according to the invention for automatic species analysis within a large biological group comprises a first beam path (10), directed from a first laser radiation source (12) to a sample region (40), the fluorescence radiation emitted by a sample (42) within the sample region (40) as a result of excitation by the first laser radiation source (12) being collected and fed to a first spectrometer (14) for spectral evaluation; a second beam path (20), directed from a second laser radiation source (22) to the sample region (40), the fluorescence radiation emitted by the sample (42) within the sample region (40) as a result of excitation by the second laser radiation source (22) being collected and fed to a second spectrometer (24) for spectral evaluation; and a camera (30), which is designed to capture a photograph of the sample (42) within the sample region (40); the device also comprising a means for automatic species analysis (50), which is designed to carry out an automatic species analysis from the sample-related results of the spectroscopic evaluation of the first spectrometer (14) and of the second spectrometer (24) and the photograph of the camera (30) by means of a multi-step threshold value comparison for certain determination parameters stored in an associated database. A method according to the invention serves to carry out an automatic species analysis by means of a device according to the invention.

IPC 8 full level

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See references of WO 2019068352A1

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