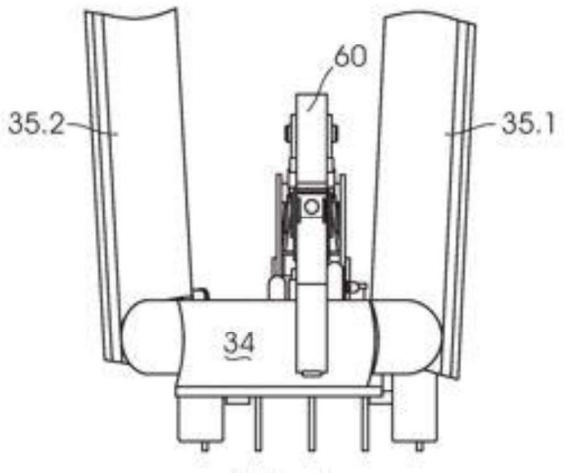
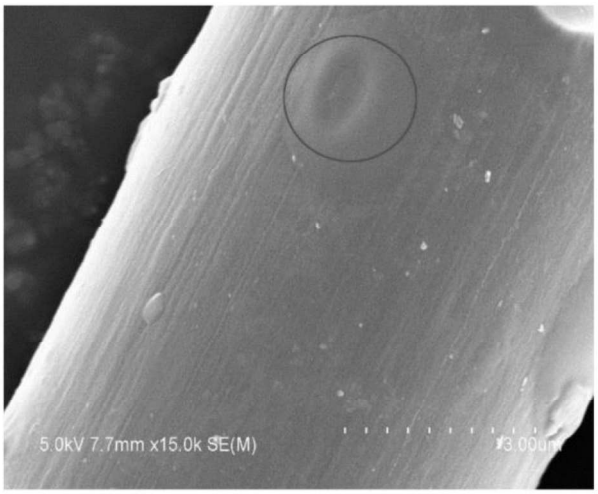
pathological levels of CC16 in the serum has been provided. The device of the present invention provides affordable and easy to use strip-based screening approach for early detection of silicosis using CC16 as a biomarker.

21: 2022/08164. 22: 2022/07/21. 43: 2023/02/08
51: E01C
71: CHG Grondwerke BK
72: VAN DE MERWE, CHRISTIAAN HENDRIK GERT
33: ZA 31: 2021/04583 32: 2021-07-01
54: CONTOUR FORMING APPARATUS
00: -
An earth material shifting and contour forming apparatus is disclosed. In particular, the invention relates to a contour forming apparatus for moving earth material and finishing off contours formed including at least one peripheral blade laterally disposed relative to the central scraper blade and movably mounted via attachment means to the central scraper blade and in use selectively cooperating with the central scraper blade whilst being displaceable relative to the central scraper blade between a compaction position, wherein earth material located in the outer region after transfer of the earth material to the outer region by means of the central scraper blade, is graded and compacted by the at least one peripheral blade; and an inoperative position, wherein the at least one peripheral blade is raised relative to the central scraper blade.



21: 2022/08231. 22: 2022/07/22. 43: 2023/02/03
51: D06M
71: Anhui Polytechnic University, ZHEJIANG SCI-TECH UNIVERSITY
72: YANG Li, XU Zhenzhen, NI Qingqing, CHEN Yuan
33: CN 31: 2021103940396 32: 2021-04-13
54: METHOD FOR MODIFYING CARBON FIBER AND PRODUCT THEREOF
00: -
A method for modifying carbon fibers and a product thereof are provided. Modified carbon fibers are obtained by heating prepared carbon fibers under an inert atmosphere after magnetron sputtering treatment. The magnetron sputtering treatment takes the prepared carbon fibers as a substrate material and carbon as a target material, and sputtering conditions includes: a vacuum degree of 2×10-3 Pa, a distance from the target material to the substrate material of 4 cm, a magnetron sputtering power of 150 - 350 W, a magnetron sputtering pressure of 0.5 - 1.6 Pa, a magnetron sputtering duration of 20 - 60 min, a high purity argon as working gas, and an argon flow rate of 80 mL/min. The heating treatment is carried out under conditions including: a heating rate of 5 degree Celsius/min, a heating temperature of 200 - 600 degree Celsius, and a heating duration of 25 - 40 min.

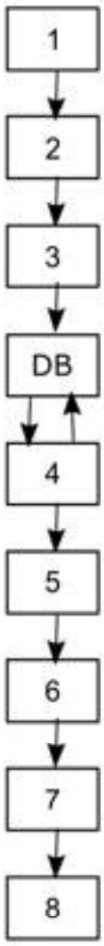


21: 2022/08315. 22: 2022/07/26. 43: 2023/02/09
51: G06Q
71: UNIVERSIDAD INTERNACIONAL DE LA RIOJA (UNIR)
72: BURGOS SOLANS Daniel, SAN JOSÉ DEL AMO José Carlos
33: EP 31: 21382936.9 32: 2021-10-18

54: COMPUTER-IMPLEMENTED METHOD FOR MONITORING THE EXPIRATION DATES OF GENETICALLY MODIFIED ORGANISM PRODUCTS, AND SYSTEM IMPLEMENTING THE SAME

00: -

The invention relates to a computer-implemented method and system for monitoring the authorisation expiration dates of genetically modified organism, GMO, products, wherein the method comprising the steps of providing a list of GMO products, requesting information about at least one GMO product of the list, and retrieving said information to a database configured in a computer terminal. Advantageously, the method further comprises: processing, in the computer terminal, the sequence of components, splitting said sequence into a plurality of single transformation-event components; generating a plurality of sub-combinations of the split components of the sequence; updating, in the computer terminal, the authorisation expiration date of the GMO products in case that any of the expiration dates of their corresponding sub-combinations is closer to the current date than the expiration date of the GMO products in the remote data repository.



21: 2022/08320. 22: 2022/07/26. 43: 2023/02/09
51: A61B
71: UNIVERSIDAD INTERNACIONAL DE LA RIOJA (UNIR)
72: CORBI BELLOT Alberto, BURGOS SOLANS Daniel
33: EP 31: 22382085.3 32: 2022-02-01

54: SYSTEM AND METHOD FOR DETECTING THE PRODROMAL DEVELOPMENT OF ALZHEIMER'S DISEASE FROM SLEEP PATTERNS

00: -

The invention relates to a system for detecting the prodromal development of Alzheimer's disease from sleep patterns of a user (2), said system comprising: at least one inertial sensor (1) adapted to continuously measure an acceleration pattern (3) during a period of time, and wherein the acceleration pattern (3) comprises a set of data associated to the 10 user's (2) movements during sleep; wherein the inertial sensor (1) comprises means for transmitting

the data associated to the acceleration patterns (3) to a computing module (4). Advantageously, the computing module (4) is configured with a neural network (7) comprising a reference dataset obtained from the acceleration patterns (3) belonging to both healthy and patients of Alzheimer's disease, wherein the computing module (4) is 15 further configured to obtain, by means of the neural network (7), a probability (8) of transitioning to a state characterised by Alzheimer's disease by comparison between the user's (2) acceleration pattern (3) and the reference dataset.

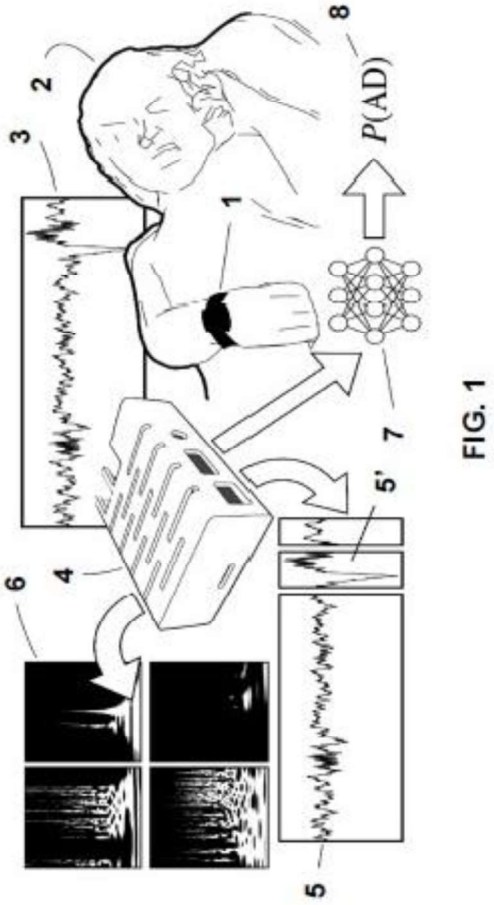


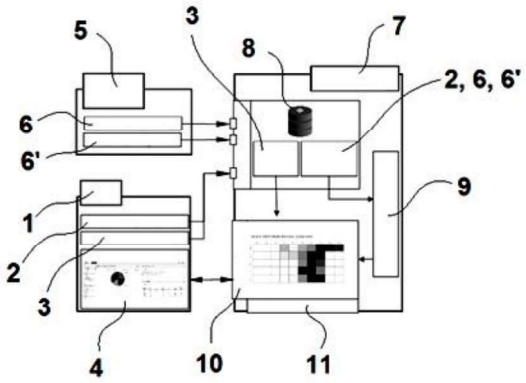
FIG. 1

21: 2022/08321. 22: 2022/07/26. 43: 2023/02/08
51: G06F; G06Q
71: UNIVERSIDAD INTERNACIONAL DE LA RIOJA (UNIR)
72: Daniel BURGOS SOLANS, Alberto CORBI BELLOT

54: PROCESS FOR GENERATING AND SENDING RECOMMENDATIONS TO USERS OF A PROPRIETARY WEB CONTENT MANAGER SYSTEM AND A PLURALITY OF THIRD-PARTY SERVICES

00: -

The invention relates to a process and system of managing and sending recommendations to user groups in online educational platforms based on one or more web services, comprising at least: one CMS (1) configured with different activities that can be performed by the users, and a recommendation web platform (7) for users. Said recommendation web platform (7) is preferably configured with a calculation module (9) configured for reading and vectorising user activity records (2, 6, 6'), and for generating one or more recommendations for said users on the basis of one or more previously defined rules; and a display module (10) configured for reading the defined rules, the generated recommendations, the activity records (2, 6, 6'), and/or the results (3) obtained by the users, and showing graphical representations of said information.



21: 2022/08322. 22: 2022/07/26. 43: 2023/02/07
51: G06F; G06Q
71: UNIVERSIDAD INTERNACIONAL DE LA RIOJA (UNIR)
72: Daniel BURGOS SOLANS

54: METHOD FOR OBTAINING AND SENDING USER-DIFFERENTIATED INFORMATION IN COMMUNICATION NETWORKS

00: -

The invention relates to a method and to a system for sending notifications or contents to users with differentiated roles in a network, comprising the use of a content server module (1) and a client module (2); wherein the server module (1) comprises at least one content manager (3) for generating, editing,