S. No.	Title of the Patent and Copyright	Authors	Filed/ Granted / Published	National/ International
1.	Cnn and image processing based device for evaluation and analysis of financial report **Patent No.: 202401293** https://patents.google.com/patent/ZA202401293B/en?q=(murugesan+selvam)&oq=murugesan+selvam	Murugesan Selvam Dr J M Velmurugan Dr S Mohan Dr Chinnaraj Elavarasan Santhoshkumar Sakthivel Basuvaraj Marappan D rAshutosh Mohan Dr Ishi Mohan Dr	Granted and Published	International (South Africa- Patent)

REPUBLIC OF SOUTH AFRICA

REPUBLIEK VAN SUID AFRIKA

PATENTS ACT, 1978

CERTIFICATE

accordance with section 44 (1) of the Patents Act, No. 57 of 1978, it is hereby certified that:

DR. MURUGESAN SELVAM; DR. J.M. VELMURUGAN; DR. S. MOHAN; ELAVARASAN CHINNARAJ; SAKTHIVEL SANTHOSHKUMAR; DR. BASUVARAJ MARAPPAN; DR. ASHUTOSH MOHAN; DR. ISHI MOHAN

Has been granted a patent in respect of an invention described and claimed in complete specification deposited at the Patent Office under the number

2024/01293

A copy of the complete specification is annexed, together with the relevant Form P2.

imony thereof, the seal of the Patent Office has been affixed at Pretoria with effect from the 28th day of **August 2024**

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AUGUST 2024 **VOL 57 ● No. 08**

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Official notices of proceedings under:

The Patents Act, 1978
The Designs Act, 1993
The Trade Marks Act, 1963
The Trade Marks Act, 1993
The Registration of Copyright in Cinematograph Films Act, 1977

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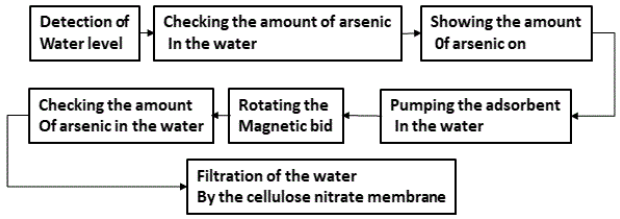
Das, Dr. Milan Hait, Dr. Nanda Kumar Kashyap, Bidisha Bera, Aditya Shankar Ghosh, Suvankar De, Sudarshan Chakra Mandal, Janmejay Sahoo

54: AN EFFICIENT SYSTEM AND METHOD FOR REMOVAL OF ARSENIC FROM WATER

00: -

This invention pertains to a novel method and device designed for the highly effective removal of arsenic from drinking water, addressing a critical issue in water purification. The method involves the passage of contaminated water through a specially designed adsorption unit containing a granular adsorbent material with a high affinity for arsenic. PH adjustment is implemented to optimize adsorption efficiency, and the treated water is collected after a predetermined contact time, resulting in a significant reduction in arsenic concentration. The accompanying device integrates key components such as an inlet for contaminated water, an adsorption unit, a pH adjustment system, a retention chamber, and an outlet for discharging treated water. The invention offers a comprehensive solution for arsenic removal, ensuring the provision of safe and potable drinking water for communities facing arsenic contamination challenges. Fig. 4 will be the reference figure.

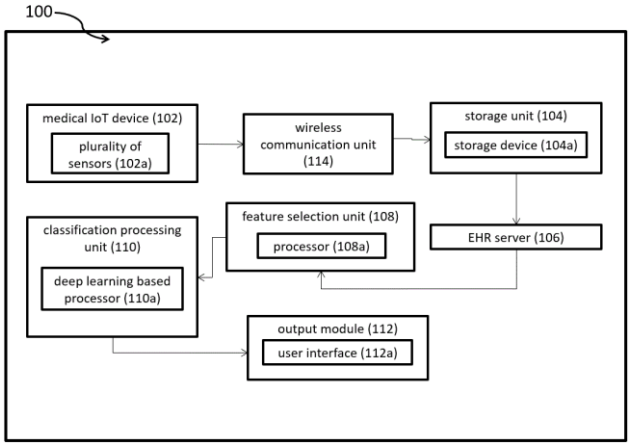


21: 2024/01252. 22: 2024/02/09. 43: 2024/08/15
51: G06Q
71: PRASANALAKSHMI BALAJI, THAVAVEL VAIYAPURI, MOUSMI AJAY CHAURASIA, ANANDHAVALLI MUNIASAMY, MARIYAM AYSHA BIVI
72: PRASANALAKSHMI BALAJI, THAVAVEL VAIYAPURI, MOUSMI AJAY CHAURASIA, ANANDHAVALLI MUNIASAMY, MARIYAM AYSHA BIVI

54: A SMART HEALTHCARE SYSTEM FOR INFECTIOUS DISEASE PREDICTION AND A METHOD THEREOF

00: -

The present invention relates to a smart healthcare system for predicting infectious disease at an early stage, and a method thereof. This invention revolutionizes epidemic disease prediction by integrating a deep learning approach as an alternative to traditional healthcare systems. Utilizing the Manhattan Hessian Locally-Linear Embedding technique in the initial neural network layer expedites prediction time by reducing dataset dimensionality. The technique distinguishes relevant features based on Manhattan distance measures, enhancing subsequent analyses. Classification employs Tucker coefficient of congruence regression, deeply analyzing training and testing disease data for accurate predictions. Positive similarity levels are crucial at the output layer, ensuring precise disease identification and minimizing incorrect predictions. The system focuses on error reduction, emphasizing accuracy and reliability in epidemic disease prediction. This invention not only advances predictive capabilities but also streamlines the identification process, contributing to effective disease control and mitigation.

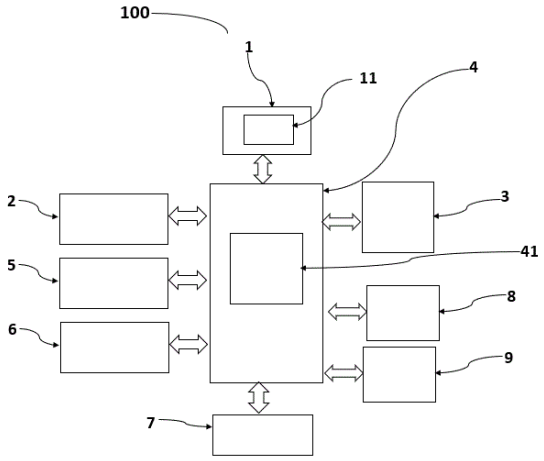


21: 2024/01293. 22: 2024/02/12. 43: 2024/08/15
51: G06Q
71: Dr. Murugesan Selvam, Dr. J.M. Velmurugan, Dr. S. Mohan, Elavarasan Chinnaraj, Sakthivel Santhoshkumar, Dr. Basuvaraj Marappan, Dr. Ashutosh Mohan, Dr. Ishi Mohan
72: Dr. Murugesan Selvam, Dr. J.M. Velmurugan, Dr. S. Mohan, Elavarasan Chinnaraj, Sakthivel Santhoshkumar, Dr. Basuvaraj Marappan, Dr. Ashutosh Mohan, Dr. Ishi Mohan

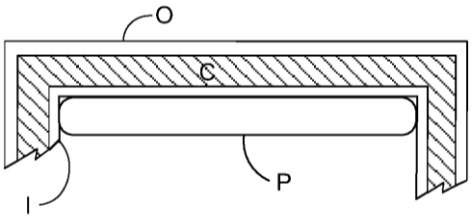
54: CNN AND IMAGE PROCESSING BASED DEVICE FOR EVALUATION AND ANALYSIS OF FINANCIAL REPORT

00: -

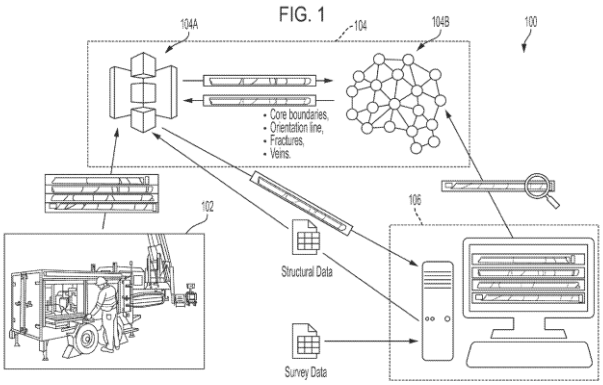
The present invention relates to a financial analysis device equipped with advanced image capture, fraud detection, consumer identification, and data analysis capabilities, aimed at providing comprehensive financial document analysis, fraud detection, and market trend forecasting. Through the use of convolutional neural networks (CNN), intelligent adaptive learning, and time series analysis, the device offers accurate financial predictions and analyses, enhancing user experience with multi-language support and auditory output features.



21: 2024/01353. 22: 2024/02/14. 43: 2024/07/03
51: B32B
71: INNOVIA FILMS LTD
72: SINGH, Shalendra, LEWUCHA, Cezary
33: GB 31: 2105310.3 32: 2021-04-14
33: GB 31: 2111513.4 32: 2021-08-11
54: NAKED COLLATION PACKAGE FILM
00: -
A naked collation film comprises a core layer (C), an inner sealing layer (I) of polyolefinic material and an outer sealing layer (O) of polyolefin material, each sealing layer comprising at least two, and preferably three, polyolefins selected from C4, and at least one of C2 and C3 polyolefins. At least oneof the inner layer and the outer layer has at least one of: i. a C4 content of greater than about 10mol%; ii. a C4/C2 molar ratio of at least about 1.2; and/or iii. a C4/C3 molar ratio of at least about 0.15. The collation film is preferably non-blocking and has a large incompatibility window with the individually wrapped packages (P) of a naked collation package and has a strong optical performance.



21: 2024/01496. 22: 2024/02/20. 43: 2024/07/03
51: G06K
71: LONGYEAR TM, INC.
72: GEORGE, Luke
33: US 31: 63/062,975 32: 2020-08-07
54: SYSTEMS AND METHODS FOR IMPROVED CORE SAMPLE ANALYSIS
00: -
Provided herein are methods and systems for improved core sample analysis. At least one image of a core sample may be analyzed to determine structural data associated with the core sample (e.g., attributes of the core sample). A machine learning model may analyze the at least one image and determine one or more attributes associated with the core sample. The machine learning model may generate a segmentation mask. An output image may be generated. A user may interact with the output image and provide one or more user edits. The one or more user edits may be provided to the machine learning model for optimization thereof.



21: 2024/01628. 22: 2024/02/26. 43: 2024/07/04
51: C21B; H01M
71: ELECTRASTEEL, INC.
72: PHAM, Ai Quoc, NIJHAWAN, Sandeep, ALVAREZ, Adolfredo, WALLACE, Colleen, FATUR, Steven
33: US 31: 63/165,502 32: 2021-03-24
54: 2-STEP IRON CONVERSION SYSTEM