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(21) Application No.202221052604 A
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(54) Title of the invention : VALUE ADDITION OF CHICKEN EGGS: A METHOD TO SUSTAIN EXTERNAL AND INTERNAL QUALITY AND TO ENHANCE SHELF LIFE OF EGGS BY EXTERNAL COATING OF COMBINATION OF A SOLUTION OF SHELLAC AND PROPOLIS THEREOF

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(86) International Application No :NA
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(61) Patent of Addition to Application Number :NA
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(57) Abstract :
The present invention includes method of value addition to chicken eggs to sustain their external and internal quality and to enhance their shelf life by external coating by a coating solution having combination of 15% shellac and 0.5% propolis in absolute alcohol. Effect of coating solution on external and internal quality of chicken eggs were examined from week 00 to week 10 considering specific parameters related to quality of eggs. It was found that coated eggs sustained their quality for more weeks than eggs of control group (non-coated). Thus, external coating was helpful to enhance shelf life of chicken eggs up to 08 weeks at room temperature without much changes in quality parameters.

No. of Pages : 29 No. of Claims : 4

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(22) Date of filing of Application :02/10/2022

(21) Application No.202221056592 A
(43) Publication Date : 21/10/2022

(54) Title of the invention : A METHOD OF VALUE ADDITION BY TRANSFORMING INDIAN PROPOLIS INTO ITS SILVER NANOPARTICLES AND THEIR THERAPEUTIC USES

(51) International classification :A61K0035644000, A61K0009000000, A61K0009160000, A61K0008980000, H01L0051520000
(86) International Application No :NA
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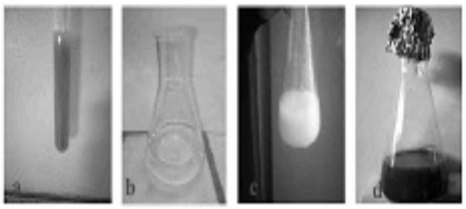
(57) Abstract :
The present invention includes a method of value addition to Indian propolis by transforming it into its silver nanoparticles for their therapeutic uses and their physicochemical characterization. The silver nanoparticles of Indian propolis as a transformed product reflects pharmacologically acceptable characters, including successful encapsulation of Indian propolis within carrier polymer of silver, stability against temperature, spherical shaped particles with size within the diameter range of 45-90 nm, sulphur containing compounds, antioxidant, cytoprotective, genoprotective and antifibrotic activity.

Fig. I.



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(21) Application No.202221059300 A
(43) Publication Date : 21/10/2022

(54) Title of the invention : MEDICAL IMAGE SEGMENTATION USING CONVOLUTIONAL NEURAL NETWORKS WITH AUTOENCODER

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(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
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(57) Abstract :
Abstract Imaging in medicine plays a significant part in a broad number of clinical applications, including those that are utilized for early detection, monitoring, diagnosis, and assessment of therapy for a wide variety of medical diseases. Deep learning and artificial neural networks are two concepts that you need to have a firm grasp on if you want to become an expert in medical image analysis using computer vision. Rapid progress is being made in the field of research known as deep learning approach (DLA), which focuses on medical image processing. DLA has had widespread use in the field of medical imaging as a diagnostic tool for determining the presence or absence of disease. Along with the construction of artificial neural networks and a comprehensive investigation of DLA, some of the potential applications for medical imaging are covered in this article. Digital pictures from X-rays, CT scans, mammograms, and histology are the primary focus of the majority of DLA applications. This article offers an in-depth analysis of the research that has been done on DLA for the classification, detection, and segmentation of medical images. When researchers use this summary, they may be better able to think about ways to enhance DLA-based medical image analysis.

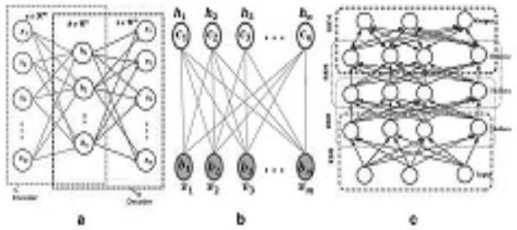

Fig. 1 (a) Autoencoder (b) Restricted Boltzmann Machine (c) Deep Belief Networks

No. of Pages : 11 No. of Claims : 3

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(54) Title of the invention : An AI-powered portfolio management system for automated algorithmic trading & process optimization

(51) International classification :G06Q0040040000, G06Q0040060000, G06N0020000000, G06Q0040020000, G06Q0020060000
(86) International Application No :PCT// Filing Date :01/01/1900
(87) International Publication No : NA
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(57) Abstract :
Algorithmic Trading has a special benefit over normal trading methodologies, that it can execute many numbers of orders at any instant depending on algorithms or we can say strategies predefined. Although SEBI has several algorithmic trading strategies defined, choosing the wrong strategy, considering the speed at which Algorithmic High-Frequency Trading (HFT) happens, can affect millions of stocks and can maximize the risk and loss. Further, the stock market or cryptocurrency market data is of huge volume and finding patterns from past data is not as dynamic as choosing an algorithm for the HFT. Simply, we can say, although there might be N number of strategies in the market, to know exactly which strategy will be executed for the current market environment (again considering complex features like market volatility, risk factors etc), we can't manually decide everything. This is where AI comes into the picture. The usage of AI in algorithmic trading is not new, and we can say this proposal is innovative interms of the usage of AI in the finance sector. Automation combines the entire process with Artificial Intelligence and machine learning adding an extra layer of intelligence to the Algorithmic Trading modules. AI-powered computer systems are trained in such a way that they are ready to recognise market movements with impressive accuracy, helping algorithms bid accordingly. By accessing and understanding large data sets, ML systems can predict future outcomes, enhance trading strategies and tweak portfolios accordingly. AI can be implemented to minimize the human risk of analysing a huge volume of data and devising new strategies. With the help of AI, it's also possible for computer systems to check multiple market conditions and adjust trades instantly depending on the market environment. Of course, if this were to be done manually, it would take hours and hours of physical labour, research and fact-checking. And even then, errors might occur. Opportunities are likely to be missed too which is not at all optimal for the finance sector of India Regarding the business perspective and industry centricity of this idea to devise better AI algorithms and automation techniques for the prediction of trends and strategies in a way better than the existing AI-powered algorithmic trading softwares is that the algorithmic trading market is expected to grow by $4 billion by 2024, bringing the total volume to $19 billion. The economic fallout from COVID-19 has seen a record-breaking drop in the American, European, and Chinese stock markets. Hence there is no better time to put our research and development to develop better algorithms and techniques to automate the entire process. As we know India has a large opportunity bucket in the financial sector, the data available to us is hugely unstructured and affected by several thousand factors. To develop something which is powered by AI and involves market volatility as well as risk, we need to start working as soon as possible to do proper research by utilizing our biggest strength, that's the huge availability of unstructured, unused data.

No. of Pages : 9 No. of Claims : 3