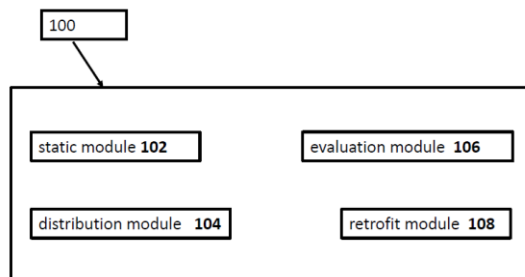
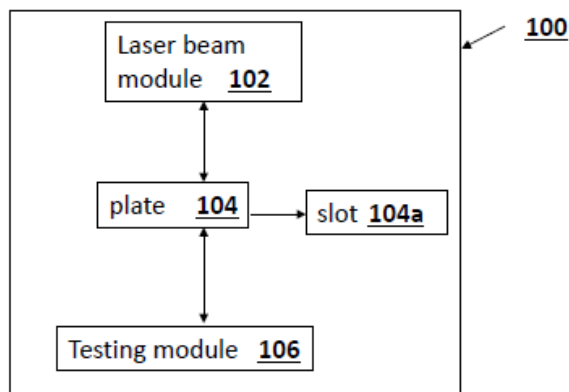


scanning speed, frequency, power and pitch of the laser beam module.



21: 2022/00324. 22: 2022/01/06. 43: 2022/06/03
51: E04G

71: SHENDKAR, Mangeshkumar Rajkumar
72: SHENDKAR, Mangeshkumar Rajkumar

54: A REFINED SYSTEM FOR SEISMIC EVALUATION AND RETROFIT OF REINFORCED CONCRETE BUILDINGS AND A METHOD THEREOF

00: -
A system and method for seismic evaluation and retrofit of reinforced concrete buildings, comprises of: a static module (102) to create a plurality of structural models for identifying the damage and the need of intervention/retrofit to the building using material strain technique and quadrants assessment method; a distribution module (104) for distributing the calculated base shear a teach floor of the building as per Indian Standards (IS) code provisions; an evaluation module (106) for performing a check of deficient members of the building based on critical deformations criterion using adaptive pushover analysis technique, such as check of the demand (D) to capacity (C) ratio (D/C), wherein based on material strain limit approach if the $D/C > 1$, then member is called the deficient member, and for identifying the need of intervention/retrofit to reinforced concrete structures based on quadrants assessment method; and a retrofit module (108) for retrofitting the deficient members using local and global retrofit techniques to retrofit the structure.

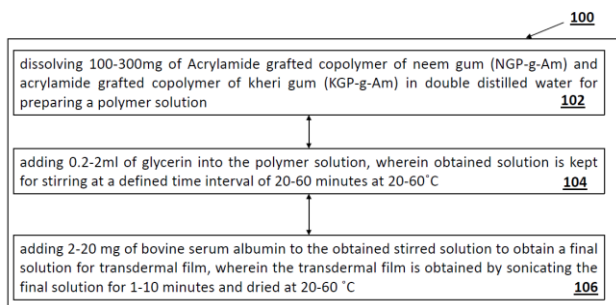
21: 2022/00715. 22: 2022/01/14. 43: 2022/06/03
51: A61K

71: MALVIYA, Rishabha, SUNDRAM, Sonali, ALAM, Md. Aftab, MISHRA, Prem Shankar, MISHRA, Rakhi, FULORIA, Neeraj Kumar, FULORIA, Shivkanya, SUBRAMANIYAN, Vetriselvan, GUPTA, Saurabh Kumar, CHAUDHARY, Shikha, SHARMA, Pradeep Kumar, NATESAN, Gopal, SEKAR, Mahendran, VERMA, Swati, CHAUHAN, Akash, DUBEY, Ayush, VARSHNEY, Sandesh

72: MALVIYA, Rishabha, SUNDRAM, Sonali, ALAM, Md. Aftab, MISHRA, Prem Shankar, MISHRA, Rakhi, FULORIA, Neeraj Kumar, FULORIA, Shivkanya, SUBRAMANIYAN, Vetriselvan, GUPTA, Saurabh Kumar, CHAUDHARY, Shikha, SHARMA, Pradeep Kumar, NATESAN, Gopal, SEKAR, Mahendran, VERMA, Swati, CHAUHAN, Akash, DUBEY, Ayush, VARSHNEY, Sandesh

54: A FORMULATION AND A METHOD TO DEVELOP TRANSDERMAL FILM FOR THE DELIVERY MODEL PROTEIN DRUG THROUGH NON-INVASIVE ROUTE

00: -
A formulation and a method for developing transdermal film for delivery model protein drug, comprises of: dissolving 100-300mg of Acrylamide grafted copolymer of neem gum (NGP-g-Am) and acrylamide grafted copolymer of kheri gum (KGP-g-Am) in double distilled water for preparing a polymer solution; adding 0.2-2ml of glycerin into the polymer solution, wherein obtained solution is kept for stirring at a defined time interval of 20-60 minutes at 20-60°C; and adding 2-20 mg of bovine serum albumin to the obtained stirred solution to obtain a final solution for transdermal film, wherein the transdermal film is obtained by sonicating the final solution for 1-10 minutes and dried at 20-60 °C.



21: 2022/00717. 22: 2022/01/14. 43: 2022/06/03
51: G06K

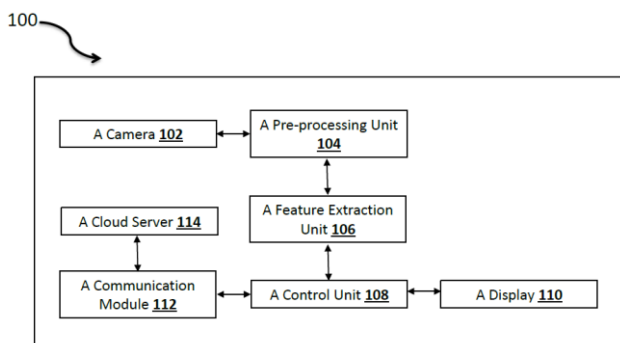
71: JAIN, Priyank, SAHU, Shriya, VERMA, Purna, PATLEY, Archana, JAIN, Anupama

72: JAIN, Priyank, SAHU, Shriya, VERMA, Purna, PATLEY, Archana, JAIN, Anupama

54: AN AUTOMATIC CROP DISEASE DETECTION SYSTEM

00: -

The present invention generally relates to an automatic crop disease detection system comprises a camera for capturing real time images of diseased leaves; a pre-processing unit for filtering irrelevant information from the captured images; a feature extraction unit for extraction a set of features from the pre-processed images; and a control unit equipped with a convolutional neural network model for detecting disease using the set of features upon comparing the set of features of the image with a threshold features.



21: 2022/00718. 22: 2022/01/14. 43: 2022/06/03
51: C12N

71: SAXENA, Ajit Kumar

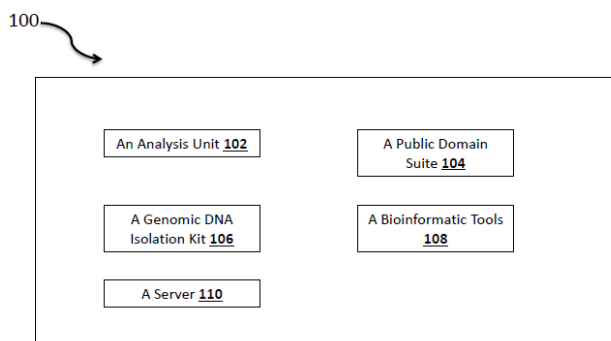
72: SAXENA, Ajit Kumar

54: A SYSTEM FOR EVALUATING GENE MUTATIONS AND PREDICTING 3D PROTEIN STRUCTURE FOR LIGAND BINDING ACTIVITY

00: -

The present invention generally relates to a system for evaluating gene mutations and predicting 3D

protein structure for ligand binding activity comprises an analysis unit configured for genetics analysis and confirmation of diagnosis using 2.0 ml blood samples proband after written informed consent clinically diagnosed cases of non-obstructive a zoospermia with age matched controls; a public domain suite for calculating sample size of the blood samples; a genomic DNA isolation kit for isolating genomic DNA from blood (2.0 ml) and a selected case is used for whole exome sequencing (WES) for identification of the genes, wherein the genes are A-kinase anchoring proteins 3 (AKAP3) and Procollagen-Lysine, 2-Oxoglutarate 5-Dioxygenase 3 (PLOD3); bioinformatic tools for decoding amino acid sequence from biological database; and a server connected to the bioinformatics tool for predicting 3D protein structure of AKAP3 and PLOD3 genes and binding energy is calculated by Ramachandran plot.



21: 2022/01060. 22: 2022/01/24. 43: 2022/06/03
51: G16H

71: YUSUFI, Faiz Noor Khan, AHMED, Aquil, AHMAD, Jamal

72: YUSUFI, Faiz Noor Khan, AHMED, Aquil, AHMAD, Jamal

54: A METHOD AND SYSTEM FOR DEVELOPING AND VALIDATING DUAL MODELS FOR THE 5-YEAR DIABETIC RETINOPATHY RISK SCORES ON TYPE 2 DIABETES MELLITUS PATIENTS

00: -

The present disclosure relates to a method and system for developing and validating dual models for the 5-year diabetic retinopathy risk scores on Indian type 2 diabetes mellitus (T2DM) patients. The method comprises: developing two new 5-year diabetic retinopathy risk score models. The two new models are full model and partial model, wherein a full model used 38 independent variables and the partial model used 23 independent variables. On the