YENEPOYA
(DEEMED TO BE UNIVERSITY)
Recognized under Sec 3(A) of the UGC Act 1956
Accredited by NAAC with 'A' Grade

3.4.3 Total number of Patents/Copyrights published/ awarded/ technology-transferred during the last five years.

E-Copies of the Letters of Award/Publication of Patent

3.4.3 Total number of Patents/Copyrights published/ awarded/ technology-transferred during the last five years

Consolidated Statement by Head of the Institution: List of Patents Published/Awarded

Sl. No.	Name of the Inventors	Title of the patent (Number)	Year	Status
2020-21				
1.	Riaz Abdulla K Jagadish PD Rekha AB Arun B H Sripathi Rao	A Radiation shielding composition (201841031824)	2021	Published
2.	Shetty Sanath Ragher Mallikarjuna Shetty Rajesh Bhat Vidya Shetty Naresh Gangadharan A Lakshmi Girish Job Subin	A Dental Articulator (201941032950)	2021	Published
3.	Renjith P. Johnson Supriya Jain Namitha K	Nanogel-Based Sustained Drug Delivery System (202041008226)	2021	Published
4.	K.Sudhakara Prasad Arun A.B. Sapna Kannan	Thermal Biosensor Based Diagnostic Kit for Leptospirosis (202041011481)	2021	Published
5.	Yashodar P. Bandhary Sadiya Bi Shaikh Mohd. Altaf Nazar Ashwini Prabhu Prashant Kumar Modi T.S Keshava Prasad	Molecular Biomarkers for Detection of Idiopathic Pulmonary Fibrosis (201941048222)	2021	Published
6.	Sandeep Shetty Katheesa Parveen Stanly Selva Kumar GS	Universal Ergonomic Driver (UED) For Bone Screws (201941048213)	2021	Published
7.	Renjith P. Johnson Rajesh P Shastry Namitha K. Preman Nikhitha Amin	Anti-Dermatophytic hydrogel for topical applications (201941047486)	2021	Published
8.	Sudhakara Prasad Arun AB Sapna Kannan	Electrochemical Biosensor and Method For Diagnosing Leptospirosis (201941047489)	2021	Published
9.	Yashodar P Bandhary	Biomarkers for	2021	Published

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	Sadiya Bi Shaikh Irfan	Detection/Diagnosis Of Pulmonary Disorders And Users Thereof (201941051398)		
10.	Sandeep G Shetty	An innovative approach to design the save appliance, maxillary protraction device (201941006367)	2021	Published
11.	Sandeep G Shetty Faiz Ahmad Bhat Stanly Selva Kumar GS	An Orthodontic Bracket (201941008082)	2021	Published
12.	Rekha P. Sahana TG D	Process for extracting Exopolysaccharide from marine bacteria and composition thereof (201941020938)	2020	Published
13.	TS Keshava Prasad Srikanth Prasad Tripathy Devendra S. Chauhan Harsha Gowda Akhilesh Pandey Jayashree Advani Renu Verma Oishi Chatterjee	Method and kit for detection of drug resistant Mycobacterium Tuberculosis (201941006113)	2020	Published
14.	Sanjayagouda Mohammed gulzar	Toothpaste Sheets (202141046530)	2021	Applied
15.	Mallikarjuna	Digital occlusal plane analyzer (202141036635)	2021	Applied
16.	Keshava Prasad TS. DAB Rex Arun Kumar S T	Composition for wound healing (202141036627)	2021	Applied
17.	PD. Rekha TG. Sahana A.B. Arun	Composition Comprising Exopolysaccharide for the treatment of Skin Wounds, Culture Media and Applications thereof (202141023423)	2021	Applied
18.	G Sujaykumar	An Automatic Hand and Feet Sanitizing System (202141035236)	2021	Applied
19.	Nandish Kumar Pooja Harish	Orthodontic Systems and Methods for Efficient Disimpaction and Derotation of Tooth (202141024664)	2021	Applied
20.	S L. Hoti Keshava Prasad TS Ishwar Singh Arun AB. Prashant Kumar Modi	Parasitic Macrophage Migration Inhibitory Factor 2 of Filarial Parasite as a Novel Drug (202141018695)	2021	Applied
21.	Rajesh Hosadurga Rejeesh E.P Lathish Kumar	Multifunctional Surgical Table For Animals (202041032614)	2020	Applied
22.	K. Sudhakaraprasad Sonia Joseph	Diagnostic Test For Parkinson's Disease (202041032701)	2020	Applied

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23.	K.Sudhakar A Prasad Kumara.B. N.	Ocular Drug Delivery and Tracking Comprising Photoluminescent Carbon Nanodots (202041056414)	2020	Applied
24.	Gautham Shett Nisha Kumari	Formulation For Osteo-Arthritic and Musculo-Skeletal Pain Management (202041056417)	2020	Applied
25.	Sandeep G Shetty	An orthodontic appliance for correcting a deficient maxilla causing a skeletal class III malocclusion (201941006367)	2019	Applied
2019-20				
1.	Vidya Bhat Sanath Shetty Mallikarjuna Ragher Santoshi Naik Varsha P. Bhat	Herbal composition and a process of preparation thereof (201841047737)	2020	Published
2.	K. Sudhakaraprasad Ms. Sonia Joseph	A microfluidic device (201841034005)	2020	Published
3.	Mallikarjun Ragher Sanath Kumar Shetty Hasan Sarfaraz Savita Dandekeri Mohammed Zahid Shifa	Shade tab and process for its preparation (201841041983)	2020	Published
4.	Renjith P Johnson Namitha Kottapram Preman	Polymeric hydrogel (201841037809)	2020	Published
5.	Akhter Hussain	An additive infusion bottle (201841026975)	2020	Published
6.	Sanath Shetty Mallikarjun R. Rahul J.	Tool and method for measuring length of the maxillary arch (201841023063)	2019	Published
7.	Sanath Shetty Mallikarjun R. Rekha V.	Tool and method for measuring palatal depth (201841023270)	2019	Published
8.	Hasan Sarfaraz	A dental implant abutment (201841020091)	2019	Published
9.	Rohan Mascarenhas Satish Shenoy Akhter Husain Laxmikanth Chatra Shahistha Parveen	A computer implemented system for performing structural analysis of a maxilla and simulating treatment (201841004094)	2019	Published

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2018-19				
1.	Riaz Abdulla Rekha P.D. Sneha Pinto Yashwanth S. Anwar Arif Hafiz Johan Farhaad Yenepoya	Method for detection & diagnosis of oral cancer in a sample (US2018/0321244A1)	2018	Published
2.	Rohan Mascarenhas Satish Shenoy Akhter Husain Laxmikanth Chatra Shahistha Parveen	A method for simulating orthodontic treatment (201741029867)	2019	Published
3.	Dr. Rohan Mascarenhas Shahistha Parveen Satish Shenoy	An orthodontic bracket system for lingual braces (201741030940)	2019	Published
4.	T. S. Keshava Prasad Sneha M. Pinto Saketh Kapoor	Identification of novel peptides for diagnosis of brucellosis infection in humans and animals using MRM technology (201821006752)	2019	Published
5.	Manjunath Shenoy B. H. Shekhar Parameshwar R. Hegde	A system and method for masking and removing noise from digital images (201741003863)	2018	Published
6.	Rekha P.D. Arun A.B. Priyanka P.	Process for extraction of exopolysaccharide and carotenoids in single fermentation (201741002382)	2018	Published
2017-18				
1.	Riaz Abdulla Arun A.B. Rekha P.D. Sneha M. Pinto Yashwanth S. Anwar Asif Hafiz Johan Farhaad Yenepoya	Method for detection & diagnosis of oral cancer in a sample (AU2018100578A4) Patent Grant No. 2018100578	2018	Awarded/ Granted
2.	Vinitha R. Pai Vaishali Rai	An anticancer composition (WO2018/042323A1)	2018	Published
3.	Riaz Abdulla Arun A.B. Rekha P.D. Sneha M. Pinto Yashwanth S. Anwar Asif Hafiz Johan	Method for detection and diagnosis of oral cancer in a sample (201741015794)	2018	Published

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	Farhaad Yenepoya			
4.	Vinitha R. Pai Vaishali Rai	Anticancer compound and a process for isolating the same (201641029412)	2018	Published
5.	Anitha Magesh Akther Hussain Raghavendra Kini	A process for preparing a metal base for orthodontic applications (201641000962)	2017	Published
6.	Praveen Veigus Dinesh Naik	Power generation system (201641003405)	2017	Published
7.	Kallem Divya Tenneti Shanti	A portable dental scaler (201641003406)	2017	Published
8.	Rekha P.D. Arun A.B. Priyanka P.	Process for producing depolymerized exopolysaccharides (201641003579	2017	Published
9.	Roshini Shetty	A portable assembly for conducting on- site dental procedures (201641007397)	2017	Published
2016-17				
1.	Rohan Mascarenhas	An apparatus for determining space available for orthodontic correction (1551/CHE/2014)	2016	Published
2.	Badrunnisa Vinitha R. Pai	Coolant composition for use as metal working fluids in machine tools (3953/CHE/2014)	2016	Published
3.	Akther Husain	Orthodontic mini implant with a built-in retraction mechanism (2641/CHE/2012)	2016	Published
4.	Rohan Mascarenhas Satish Shenoy Nazeer P.	A computer implemented system for performing structural analysis and method thereof (3257/CHE/2014)	2016	Published
5.	Rohan Mascarenhas Shahista Parveen Raghavendra Shetty	A system and method of determining facial skeletal patterns (2064/CHE/2014)	2016	Published

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(12) PATENT APPLICATION PUBLICATION

(21) Application No.201841031824 A

(19) INDIA

(22) Date of filing of Application :24/08/2018

(43) Publication Date : 16/07/2021

(54) Title of the invention : A RADIATION SHIELDING COMPOSITION

(51) International classification	:G21F0003000000,G21F0001100000,G21F0001080000,C08K0003220000,G21F0001060000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No	:NA
Filing Date	:NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

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3)PUNCHAPPADY DEVASYA, Rekha
4)ANATHAPADMANABHA BHAGWATH, Arun
5)B H SRIPATHI RAO

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(57) Abstract :

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/08/2019

(21) Application No.201941032950 A
(43) Publication Date : 19/02/2021

(54) Title of the invention : A DENTAL ARTICULATOR

(51) International classification	:A61C0011080000, A61C0011020000, A61C0011000000, B41J0015040000, A61C0019000000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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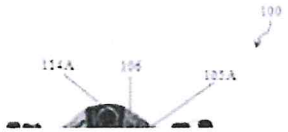
2)RAGHER, Mallikarjuna
3)SHETTY, Rajesh
4)BHAT, Vidya
5)SHETTY, Naresh
6)GANGADHARAN, Arunjith
7)LAKSHMI GIRISH
8)JOB, Subin

(57) Abstract :
The present disclosure envisages a dental articulator (100). The articulator (100) comprises a bottom plate (102), a plurality of support members (104), a top plate (106), a first plate (108) and a second plate (110). The plurality of support members (104) is extending operatively upwards from the bottom plate (102). The top plate (102) is pivotally connected to free ends of the support members (104). The first plate (108) is connected to operative top portion of the bottom plate (102). The first plate (108) is operatively vertically movable and is configured to receive and hold a mandibular dental cast. The second plate (110) being part of a housing (109) and is configured to receive and mount a maxillary dental cast. The first plate (108) and the second plate (110) are configured to facilitate holding of the maxillary and the mandibular dental casts in an anatomical relationship.



(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :27/02/2020

(21) Application No.202041008226 A
(43) Publication Date : 03/09/2021

(54) Title of the invention : NANOGEL-BASED SUSTAINED DRUG DELIVERY SYSTEM

(51) International classification	:A61K0047690000, A61K0009000000, A61K0047340000, A61K0009510000, A61K0047420000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(72)**Name of Inventor :**
1)DR. RENJITH P. JOHNSON
2)SUPRIYA JAIN
3)NAMITHA K

(57) Abstract :
ABSTRACT NANOPARTICLE-BASED SUSTAINED DRUG DELIVERY SYSTEM Invention deals with systems, methods, and compositions for a nanogel (NG)-based cell targeted drug delivery. More particularly, invention may include a NG with a targeting component and a therapeutic component or drug including peptides, proteins, nucleic acids or synthetic chemical drugs. The NG is thermos-responsive, and releases the drug in a slow and sustained manner in physiological conditions. The formulation is an efficient option for treatment of a disease condition, more particularly, degenerative eye disease, diabetic macular edema. The injectable NG exhibits temperature responsive phase transition behaviour in the physiological temperature range. Furthermore, NG-based drug delivery systems as described herein may provide improved efficacy and/or reduced toxicity. In addition, the invention also provides delivery methods and a specific formulation.

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :17/03/2020

(21) Application No.202041011481 A
(43) Publication Date : 17/09/2021

(54) Title of the invention : THERMAL BIOSENSOR BASED DIAGNOSTIC KIT FOR LEPTOSPIROSIS

(51) International classification	:G01N0033543000, A61K0047690000, B82Y0005000000, A61K0041000000, B82Y0015000000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No	:NA
Filing Date	:NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

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(72)**Name of Inventor :**
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3)SAPNA KANNAN

(57) Abstract :
ABSTRACT THERMAL BIOSENSOR BASED DIAGNOSTIC KIT FOR LEPTOSPIROSIS The primary objective of the present invention is to provide functionalized photothermal biosensors comprising gold nanoparticle antibody bio-conjugated with a label for detection of biomolecules, antigen, protein or any analyte of interest. In particular, herein a functionalized photothermal biosensors includes gold nanoparticle antibody bioconjugate with CNT label for detection of Leptospira. The gold nanoparticle (AuNp) was modified with glutathione for the formation of self-assembled monolayer (SAM) around the gold nanoparticle to facilitate the binding of monoclonal antibody. Also provided are kits comprising of gold nanoparticle monoclonal antibody bioconjugate (Au-Mab), CNT labeled monoclonal antibody (CNT-Ab), 808nm laser light for laser irradiation, pricking needle for drawing patient serum and thermometer for measuring the temperature variation. In addition, invention deals with systems and methods for detecting biomolecules, such as Leptospira, with the disclosed functionalized photothermal biosensors.

No. of Pages : 26 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :25/11/2019

(21) Application No.201941048222 A

(43) Publication Date : 28/05/2021

(54) Title of the invention : MOLECULAR BIOMARKERS FOR DETECTION OF IDIOPATHIC PULMONARY FIBROSIS

(51) International classification	:G01N0033574000, G01N0033680000, C12Q0001688300, C12Q0001688600, C07D0471100000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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2)Sadiya Bi Shaikh
3)Mohd. AltafNazar
4)Dr. Ashwini Prabhu
5)Dr. Prashant Kumar Modi
6)Dr. T. S. Keshava Prasad

(57) Abstract :

ABSTRACT MOLECULAR BIOMARKERS FOR DETECTION OF IDIOPATHIC PULMONARY FIBROSIS Invention relates to novel biomarkers for the identification, prediction or monitoring of fibrotic pulmonary diseases, for example, idiopathic pulmonary fibrosis (IPF). The present invention also allows quantification of prognostic and/or therapeutic response in patients who have a disease associated with pulmonary inflammation. In preferred embodiments, the identified proteins are SMARCA5-SWI/SNF, SUN-1, BLM, DAXX, CDC37, NDUFB, PDMB7, KRT-18 and Cyclooxygenases. The biomarkers provided herein may further be used for therapeutic treatment of IPF and enable design of novel therapies targeted against diseases associated with pulmonary inflammation. Identified biomarkers would contribute in development of reliable, rapid and confirmatory diagnostic tools for IPF. In addition, the invention also provides kits that are useful for the practice of the methods of the invention.

No. of Pages : 27 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :25/11/2019

(21) Application No.201941048213 A

(43) Publication Date : 28/05/2021

(54) Title of the invention : UNIVERSAL ERGONOMIC DRIVER (UED) FOR BONE SCREWS

(51) International classification	:A61B0017880000, A61B0017000000, A61B0090000000, A61B0017170000, A61C0007140000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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3)DR STANLY SELVA KUMAR G S

(57) Abstract :

ABSTRACT UNIVERSAL ERGONOMIC DRIVER (UED) FOR BONE SCREWS The present disclosure relates to a universal ergonomic driver (UED) for bone screws. More particularly, the drivers are adapted for use by clinicians for the insertion of screws into bones in oral cavity. UED device helps in accurate angulation while inserting the bone screws, avoiding damage to the roots of the posterior teeth. It also increases the comfort to the orthodontist providing better ergonomics by allowing him to be seated while inserting the screw. The patient comfort is also enhanced by keeping the driver in a manner that enables easy and precise access to the site of screw placement, hence no severe retraction such as that of the cheek is required. In addition, the invention also provides kits that are useful for the practice of the methods of the invention.

No. of Pages : 28 No. of Claims : 12

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(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :21/11/2019

(21) Application No.201941047486 A

(43) Publication Date : 28/05/2021

(54) Title of the invention : ANTI-DERMATOPHYTIC HYDROGEL FOR TOPICAL APPLICATIONS

(51) International classification	:A61K0009000000, A61K0047100000, A61K0009060000, A61K0045060000, A61K0031085000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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2)Dr. Rajesh P Shastry
3)Ms Namitha K. Preman
4)Ms Nikhitha Amin

(57) Abstract :
ABSTRACT ANTI-DERMATOPHYTIC HYDROGEL FOR TOPICAL APPLICATIONS The present disclosure relates to an Isoeugenol and Eugenol encapsulated HPMC/PEGMA hydrogel formulation for topical antifungal use. In particular, the invention relates to a gel or film forming formulation comprising Isoeugenol and Eugenol, a process of preparation and its use in the treatment of fungal infections or infections related to fungal infections of the skin. The hydrogel formulation helps in sustained release of the active compounds Isoeugenol and Eugenol, and the said active compounds inhibits dermatophytes at a lower concentration.

No. of Pages : 27 No. of Claims : 12

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(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :21/11/2019

(21) Application No.201941047489 A

(43) Publication Date : 28/05/2021

(54) Title of the invention : ELECTROCHEMICAL BIOSENSOR AND METHOD FOR DIAGNOSING LEPTOSPIROSIS

(51) International classification	:G01N0027327000, G01N0033543000, C12Q0001000000, C12Q0001682500, G01N0027414000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
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3)SAPNA KANNAN

(57) Abstract :

ABSTRACT ELECTROCHEMICAL BIOSENSOR AND METHOD FOR DIAGNOSING LEPTOSPIROSIS Disclosed herein are functionalized electrodes and biosensors that can be used to detect biomolecules/bacteria, such as a target analyte. In particular, a functionalized electrode includes a paper electrode modified by gold nanoparticle for the detection of Leptospira. Also provided are kits and biosensor arrays including one or more disclosed functionalized electrodes and/or biosensors. In addition, invention deals with systems and methods for detecting biomolecules, such as Leptospira. Invention relates to Point-of-Care (POC) diagnostic tool that is sensitive, rapid, reliable, affordable, easy-to-use, assist in early diagnosis and treatment.

No. of Pages : 27 No. of Claims : 11

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/12/2019

(21) Application No.201941051398 A
(43) Publication Date : 18/06/2021

(54) Title of the invention : BIOMARKERS FOR DETECTION/DIAGNOSIS OF PULMONARY DISORDERS AND USES THEREOF

(51) International classification	:G01N0033574000, G01N0033680000, C12Q0001688300, A61K0039000000, A61B0017000000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No	:NA
Filing Date	:NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

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3)Dr. Irfan

(57) Abstract :
ABSTRACT BIOMARKERS FOR DETECTION/DIAGNOSIS OF PULMONARY DISORDERS AND USES THEREOF Invention deals with novel biomarkers for identification, prediction and/or monitoring of Chronic Obstructive Pulmonary Disease (COPD). More particularly, invention enables quantification of prognostic and/or therapeutic response in patients with pulmonary inflammation associated disease. In preferred embodiments, the identified proteins are Claudin-1 (CLDN1), Claudin-3 (CLDN3), Claudin-5 (CLDN5), Claudin-10 (CLDN10), Claudin-19 (CLDN19), Claudin-25 (CLDN25), Tight Junction Protein-1 (TJP-1), Tight Junction Protein-2 (TJP-2), Tight Junction Protein-3 (TJP-3) and Tight Junction Associated Protein, Connective Tissue Growth factor (CTGF), Platelet Derived Growth Factor (PDGF), Zinc finger E-box-binding Homeobox 1(ZEB-1) and Zinc finger E-box-binding Homeobox 2 (ZEB-2). The biomarkers provided herein may further be used for therapeutic treatment of COPD and enable design of novel therapies targeted against diseases associated with pulmonary inflammation. Identified biomarkers would contribute in development of reliable, rapid and confirmatory diagnostic tools for COPD. In addition, the invention also provides kits that are useful for the practice of invention.

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :18/02/2019

(21) Application No.201941006367 A
(43) Publication Date : 29/01/2021

(54) Title of the invention : AN INNOVATIVE APPROACH TO DESIGN THE SAVE APPLIANCE, MAXILLARY PROTRACTION DEVICE

(51) International classification	:A61F5/00
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No	:NA
Filing Date	:NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)**Name of Applicant :**
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Address of Applicant :Yenepoya University, University Road, Deralakatte, Mangalore- 575018, Karnataka, India Karnataka India
(72)**Name of Inventor :**
1)Sandeep Gopal Shetty

(57) Abstract :
ABSTRACT AN ORTHODONTIC APPLIANCE FOR CORRECTING A DEFICIENT MAXILLA CAUSING A SKELETAL CLASS III MALOCCLUSION The present disclosure relates to the field of orthodontic appliances. The present disclosure envisages an orthodontic appliance (100) for correcting a deficient maxilla causing class III malocclusion. The appliance (100) comprises brackets (102A, 102B), plates (104), arms (106A, 106B), hands (108), struts (110), and a plurality of biasing elements (116). Each bracket (102A, 102B) is configured to be fastened on either side at the angle of mandible or at the ramus respectively. The distal end (107B) of each arm (106A, 106B) is configured to receive the plate (104). The hand (108) is having a rigid pin (105A) configured at its end and a recess for receiving and clasping the rigid pin (105B) of the other hand (108) with its recess in front of the incisors. The plurality of biasing elements (116) couple the struts (110) and the elements (114) implanted in the maxilla to pull the maxilla to restore normal bite.

No. of Pages : 21 No. of Claims : 11

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(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :01/03/2019

(21) Application No.201941008082 A

(43) Publication Date : 07/05/2021

(54) Title of the invention : AN ORTHODONTIC BRACKET

(51) International classification	:A61C 7/02
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No	:NA
Filing Date	:NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
1)SANDEEP GOPAL SHETTY
2)FAIZ AHMAD BHAT
3)STANLY SELVA KUMAR G S

(57) Abstract :
ABSTRACT AN ORTHODONTIC BRACKET The present disclosure relates to the field of orthodontic appliances. The present disclosure envisages an orthodontic bracket (100). The bracket (100) comprises a base plate (102), a face plate (104), and a plurality of wings (103). The base plate (102) is configured to be fastened to the front portion of each tooth. The face plate (104) is configured to be coupled to operative front surface of each base plate (104) via a plurality of biasing elements (108) and fasteners (106). Each of the wings (103) has a slot (110) to receive an arch wire therein. The face plate (104) is configured to be adjusted manually by either tightening or loosening of the fasteners (106) to compress or decompress each of the biasing elements (108) and adjust the force applied by the arch wire to facilitate desired rotation of the tooth to align and straighten each tooth.

No. of Pages : 20 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :27/05/2019

(21) Application No.201941020938 A
(43) Publication Date : 04/12/2020

(54) Title of the invention : PROCESS FOR EXTRACTING EXOPOLYSACCHARIDE FROM MARINE BACTERIA AND COMPOSITION THEREOF

(51) International classification	:C12P0019040000, A61K0009200000, A61K0009000000, A61K0031716000, C08B0037000000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
1)PUNCHAPPADY DEVESYA, Rekha
2)TALANJERI GOPALAKRISHNA, Sahana

(57) Abstract :
The present disclosure relates to a process for extracting exopolysaccharide from marine bacteria. The present disclosure also relates to a composition comprising exopolysaccharide for wound healing. The composition comprises exopolysaccharide in an amount in the range of 0.5 wt% to 2 wt% of the total weight of the composition, and a pharmaceutically acceptable excipient in an amount in the range of 98 wt% to 99.5 wt% of the total weight of the composition. The exopolysaccharide of the present disclosure can be used for wound healing.

No. of Pages : 30 No. of Claims : 10

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :15/02/2019

(21) Application No.201941006113 A
(43) Publication Date : 21/08/2020

(54) Title of the invention : METHOD AND KIT FOR DETECTION OF DRUG RESISTANT MYCOBACTERIUM TUBERCULOSIS

(51) International classification	:C12Q 1/00
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No	:NA
Filing Date	:NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)**Name of Applicant :**
1)YENEPOYA UNIVERSITY
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(72)**Name of Inventor :**
1)Prasad Thottethodi Subrahmanya Keshava
2)Srikanth Prasad Tripathy
3)Devendra S. Chauhan
4)Harsha Gowda
5)Akhilesh Pandey
6)Jayshree Advani
7)Renu Verma
8)Oishi Chatterjee

(57) Abstract :
ABSTRACT METHOD AND KIT FOR DETECTION OF DRUG RESISTANT MYCOBACTERIUM TUBERCULOSIS The present disclosure provides methods and kits for testing drug resistant Mycobacterium tuberculosis strains from clinical samples, said methods and kit comprise the identification of single nucleotide variations (SNVs), which are specific to the genes associated with drug resistance in Mycobacterium tuberculosis. A total of 342 SNVs is identified corresponding to 38 genes (Table 1), 258 SNVs corresponding to 24 genes are known to be resistant to first line of anti-tubercular drugs. Further, 84 out of 343 SNVs corresponding to 14 genes are known to confer resistance against second line drugs while 56 out of 342 SNVs corresponding to 6 genes are known to confer resistance against other first and second line drugs.

No. of Pages : 74 No. of Claims : 20

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Sr. No.	Ref. No./Application No.	App. Number	Amount Paid	C.B.R. No.	Form Name	Remarks
1	202141046530	TEMP/E-1/52695/2021-CHE	1600	38383	FORM 1	TOOTHPASTE SHEETS
2	E-106/1270/2021/CHE	202141046530	0	—	FORM28	—

TransactionID	Payment Mode	Challan Identification Number	Amount Paid	Head of A/C No
N-0000866834	Online Bank Transfer	1210210019290	1600.00	1475001020000001

Total Amount : ₹ 1600
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FORM 2

THE PATENTS ACT, 1970 (39 of 1970)
&
THE PATENTS RULES, 2003
PROVISIONALSPECIFICATION
[See section 10 and rule 13]

1. **TITLE OF THE INVENTION: TOOTHPASTE SHEETS**

2. APPLICANT **(A) NAME: YENEPOYA (DEEMED TO BE UNIVERSITY)**

(B) ADDRESS: YENEPOYA (DEEMED TO BE UNIVERSITY), UNIVERSITY ROAD, DERALAKATTE, MANGALORE PIN-575018.

3. **NATIONALITY:** **(C) INDIA**

THE FOLLOWING SPECIFICATION PARTICULARLY DESCRIBES THE INVENTION

ATTESTED

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Sr. No.	Ref. No./Application No.	App. Number	Amount Paid	C.B.R. No.	Form Name	Remarks
1	202141036635	TEMP/E-1/41129/2021-CHE	1600	29937	FORM 1	DIGITAL OCCLUSAL PLANE ANALYZER
2	E-106/916/2021/CHE	202141036635	0	----	FORM28	----

TransactionID	Payment Mode	Challan Identification Number	Amount Paid	Head of A/C No
N-0000840877	Online Bank Transfer	1308210002661	1600.00	1475001020000001

Total Amount : ₹ 1600
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FORM 2

THE PATENTS ACT, 1970 (39 of 1970)
&
THE PATENTS RULES, 2003
PROVISIONALSPECIFICATION
[See section 10 and rule 13]

1. **TITLE OF THE INVENTION: DIGITAL OCCLUSAL PLANE ANALYZER**

2. APPLICANT (A) NAME: YENEPOYA (DEEMED TO BE UNIVERSITY)

(B) ADDRESS: YENEPOYA (DEEMED TO BE UNIVERSITY), UNIVERSITY ROAD, DERALAKATTE, MANGALORE PIN-575018.

3. **NATIONALITY: (C)INDIA**

THE FOLLOWING SPECIFICATION PARTICULARLY DESCRIBES THE INVENTION

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CBR Detail:

Sr. No.	Ref. No./Application No.	App. Number	Amount Paid	C.B.R. No.	Form Name	Remarks
1	202141036627	TEMP/E-1/41100/2021-CHE	1600	29925	FORM 1	COMPOSITION FOR WOUND HEALING
2	E-106/915/2021/CHE	202141036627	0	—	FORM28	—

TransactionID	Payment Mode	Challan Identification Number	Amount Paid	Head of A/C No
N-0000840837	Online Bank Transfer	1308210000968	1600.00	1475001020000001

Total Amount : ₹ 1600
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FORM 2

THE PATENTS ACT, 1970 (39 of 1970)
&
THE PATENTS RULES, 2003
PROVISIONALSPECIFICATION
[See section 10 and rule 13]

1. **TITLE OF THE INVENTION: COMPOSITION FOR WOUND HEALING**

2. APPLICANT (A) NAME: YENEPOYA (DEEMED TO BE UNIVERSITY)

(B) ADDRESS: YENEPOYA (DEEMED TO BE UNIVERSITY), UNIVERSITY ROAD, DERALAKATTE, MANGALORE PIN-575018.

3. **NATIONALITY (C)INDIA**

THE FOLLOWING SPECIFICATION PARTICULARLY DESCRIBES THE INVENTION

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[See Rule 22(1)]
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CBR Detail:

Sr. No.	Ref. No./Application No.	App. Number	Amount Paid	C.B.R. No.	Form Name	Remarks
1	202141023423	TEMP/E-1/25881/2021-CHE	1920	18993	FORM 1	COMPOSITION COMPRISING EXOPOLYSACCHARIDE FOR THE TREATMENT OF SKIN WOUNDS, CULTURE MEDIA AND APPLICA
2	E-106/571/2021/CHE	202141023423	0	—	FORM28	—

TransactionID	Payment Mode	Challan Identification Number	Amount Paid	Head of A/C No
N-0000806606	Online Bank Transfer	2605210003893	1920.00	1475001020000001

Total Amount : ₹ 1920
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FORM 2

THE PATENTS ACT, 1970 (39 of 1970)
&
THE PATENTS RULES, 2003
PROVISIONAL SPECIFICATION
[See section 10 and rule 13]

1. **TITLE OF THE INVENTION:** **COMPOSITION COMPRISING EXOPOLYSACCHARIDE FOR THE TREATMENT OF SKIN WOUNDS, CULTURE MEDIA AND APPLICATIONS THEREOF**

2. APPLICANT **(A) NAME: YENEPOYA (DEEMED TO BE UNIVERSITY)**

(B) ADDRESS: YENEPOYA (DEEMED TO BE UNIVERSITY), UNIVERSITY ROAD, DERALAKATTE, MANGALORE PIN-575018.

3. **NATIONALITY** **(C) INDIA**

THE FOLLOWING SPECIFICATION PARTICULARLY DESCRIBES THE NATURE OF THIS INVENTION AND THE MANNER IN WHICH IT IS TO BE PERFORMED

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lipika@lifeintelect.com**

Sr. No.	Ref. No./Application No.	App. Number	Amount Paid	C.B.R. No.	Form Name	Fee Payment	Remarks
1	202141035236	TEMP/E-1/39564/2021-CHE	8000	28779	FORM 1	Full	AN AUTOMATIC HAND AND FEET SANITIZING SYSTEM

TransactionID	Payment Mode	Challan Identification Number	Amount Paid	Head of A/C No
N-0000837188	Online Bank Transfer	0508210005967	8000.00	1475001020000001

Total Amount : ₹ 8000

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FORM 2

THE PATENTS ACT, 1970 (39 of 1970)
&
THE PATENTS RULES, 2003
PROVISIONALSPECIFICATION
[See section 10 and rule 13]

1. **TITLE OF THE INVENTION: AN AUTOMATIC HAND AND FEET SANITIZING SYSTEM**

2. **APPLICANTS**

(A) NAME: YENEPOYA (DEEMED TO BE UNIVERSITY)

(B) ADDRESS: YENEPOYA (DEEMED TO BE UNIVERSITY), UNIVERSITY ROAD, DERALAKATTE, MANGALORE PIN-575018.

(A) NAME: YENEPOYA INSTITUTE OF TECHNOLOGY

(B) ADDRESS: YENEPOYA INSTITUTE OF TECHNOLOGY, NH 13, THODAR, VIDYANAGAR, MOODABIDRI, MANGALORE, KARNATAKA, INDIA, 574225.

3. **NATIONALITY:** **(C) INDIA**

THE FOLLOWING SPECIFICATION PARTICULARLY DESCRIBES THE INVENTION

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[See Rule 22(1)]
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Sr. No.	Ref. No./Application No.	App. Number	Amount Paid	C.B.R. No.	Form Name	Remarks
1	E-106/614/2021/CHE	202141024664	0	—	FORM28	
2	202141024664	TEMP/E-1/27689/2021-CHE	1600	19944	FORM 1	ORTHODONTIC SYSTEMS AND METHODS FOR EFFICIENT DISIMPACTION AND DEROTATION OF TOOTH

TransactionID	Payment Mode	Challan Identification Number	Amount Paid	Head of A/C No
N-0000809736	Online Bank Transfer	0206210008885	1600.00	1475001020000001

Total Amount : ₹ 1600
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FORM 2

THE PATENTS ACT, 1970 (39 of 1970)
&
THE PATENTS RULES, 2003
PROVISIONALSPECIFICATION
[See section 10 and rule 13]

1. **TITLE OF THE INVENTION: ORTHODONTIC SYSTEMS AND METHODS FOR EFFICIENT DISIMPACTION AND DEROTATION OF TOOTH**

2. APPLICANT **(A) NAME: YENEPOYA (DEEMED TO BE UNIVERSITY)**

(B) ADDRESS: YENEPOYA (DEEMED TO BE UNIVERSITY), UNIVERSITY ROAD, DERALAKATTE, MANGALORE PIN-575018.

3. **NATIONALITY:** **(C) INDIA**

THE FOLLOWING SPECIFICATION PARTICULARLY DESCRIBES THE INVENTION

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[See Rule 22(1)]
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CBR Detail:

Sr. No.	Ref. No./Application No.	App. Number	Amount Paid	C.B.R. No.	Form Name	Remarks
1	E-106/462/2021/CHE	202141018695	0	—	FORM28	
2	202141018695	TEMP/E-1/20747/2021-CHE	1600	14865	FORM 1	PARASITIC MACROPHAGE MIGRATION INHIBITORY FACTOR 2 OF FILARIAL PARASITE AS A NOVEL DRUG

TransactionID	Payment Mode	Challan Identification Number	Amount Paid	Head of A/C No
N-0000793343	Online Bank Transfer	2204210009399	1600.00	1475001020000001

Total Amount : ₹ 1600
Amount in Words: Rupees One Thousand Six Hundred Only

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FORM 2

THE PATENTS ACT, 1970 (39 of 1970)
&
THE PATENTS RULES, 2003
PROVISIONALSPECIFICATION
[See section 10 and rule 13]

1. **TITLE OF THE INVENTION: PARASITIC MACROPHAGE MIGRATION INHIBITORY FACTOR 2 OF FILARIAL PARASITE AS A NOVEL DRUG**

2. APPLICANT **(A) NAME: YENEPOYA (DEEMED TO BE UNIVERSITY)**

(B) ADDRESS: YENEPOYA (DEEMED TO BE UNIVERSITY), UNIVERSITY ROAD, DERALAKATTE, MANGALORE PIN-575018.

3. **NATIONALITY:** **(C) INDIA**

THE FOLLOWING SPECIFICATION PARTICULARLY DESCRIBES THE INVENTION

ATTESTED

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G.A.R.6
[See Rule 22(1)]
RECEIPT

Docket No 66482

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CBR Detail:

Sr. No.	Ref. No./Application No.	App. Number	Amount Paid	C.B.R. No.	Form Name	Remarks
1	E-2/2507/2021/CHE	202041032614	640	28045	FORM 2	

TransactionID	Payment Mode	Challan Identification Number	Amount Paid	Head of A/C No
N-0000834810	Online Bank Transfer	3007210013630	640.00	1475001020000001

Total Amount : ₹ 640
Amount in Words: Rupees Six Hundred Forty Only

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FORM 2

THE PATENTS ACT, 1970 (39 of 1970)
&
THE PATENTS RULES, 2003
COMPLETE SPECIFICATION
[See section 10 and rule 13]

1. **TITLE OF THE INVENTION: MULTIFUNCTIONAL SURGICAL TABLE FOR ANIMALS**

2. APPLICANT **(A) NAME: YENEPOYA (DEEMED TO BE UNIVERSITY)**

(B) ADDRESS: YENEPOYA (DEEMED TO BE UNIVERSITY), UNIVERSITY ROAD, DERALAKATTE, MANGALORE PIN-575018.

3. **NATIONALITY:** **(C) INDIA**

THE FOLLOWING SPECIFICATION PARTICULARLY DESCRIBES THE NATURE OF THIS INVENTION AND THE MANNER IN WHICH IT IS TO BE PERFORMED

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Dr.Gangadhara Somayaji K.S.
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PATENTS | DESIGNS | TRADE MARKS
GEOGRAPHICAL INDICATIONS

Docket No 66617

Date/Time 2021/07/30 22:55:54

Dr. Lipika Sahoo RGB-208, Purva Riviera, Marathahalli-Whitefield Main Road, Marathahalli.

Sr. No.	Ref. No./Application No.	App. Number	Amount Paid	C.B.R. No.	Form Name	Fee Payment	Remarks
1	E-2/2510/2021/CHE	202041032701	0	--	FORM 2	Full	ONLINE

Total Amount : ₹ 0
Amount in Words: Rupees Only

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FORM 2

THE PATENTS ACT, 1970 (39 of 1970)
&
THE PATENTS RULES, 2003
COMPLETE SPECIFICATION
[See section 10 and rule 13]

1. TITLE OF THE INVENTION: DIAGNOSTIC TEST FOR PARKINSON'S DISEASE

2. APPLICANT (A) NAME: YENEPOYA (DEEMED TO BE UNIVERSITY)

(B) ADDRESS: YENEPOYA (DEEMED TO BE UNIVERSITY), UNIVERSITY ROAD, DERALAKATTE, MANGALORE PIN-575018.

3. NATIONALITY: (C) INDIA

THE FOLLOWING SPECIFICATION PARTICULARLY DESCRIBES THE NATURE OF THIS INVENTION AND THE MANNER IN WHICH IT IS TO BE PERFORMED

ATTESTED

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G.A.R.6
[See Rule 22(1)]
RECEIPT

Docket No 111544

Date/Time 2020/12/24 20:43:30

To
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RGB-208, Purva Riviera, Marathahalli-
Whitefield Main Road, Marathahalli.

Userld: lipikas15

CBR Detail:

Sr. No.	Ref. No./Application No.	App. Number	Amount Paid	C.B.R. No.	Form Name	Remarks
1	E-106/1335/2020/CHE	202041056414	0	----	FORM28	
2	202041056414	TEMP/E-1/62769/2020-CHE	1600	43783	FORM 1	OCULAR DRUG DELIVERY AND TRACKING COMPRISING PHOTOLUMINESCENT CARBON NANODOTS

TransactionID	Payment Mode	Challan Identification Number	Amount Paid	Head of A/C No
N-0000741591	Online Bank Transfer	2412200011592	1600.00	1475001020000001

Total Amount : ₹ 1600
Amount in Words: Rupees One Thousand Six Hundred Only

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FORM 2

THE PATENTS ACT, 1970 (39 of 1970)
&
THE PATENTS RULES, 2003
PROVISIONALSPECIFICATION
[See section 10 and rule 13]

1. TITLE OF THE INVENTION: OCULAR DRUG DELIVERY AND TRACKING COMPRISING PHOTOLUMINESCENT CARBON NANODOTS

2. APPLICANT (A) NAME: YENEPOYA (DEEMED TO BE UNIVERSITY)

(B) ADDRESS: YENEPOYA (DEEMED TO BE UNIVERSITY), UNIVERSITY ROAD, DERALAKATTE, MANGALORE PIN-575018.

3. NATIONALITY: (C) INDIA

THE FOLLOWING SPECIFICATION PARTICULARLY DESCRIBES THE INVENTION

ATTESTED

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Mangalore- 575 018, Karnataka

Controller General of Patents, Designs & Trade Marks

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GEOGRAPHICAL INDICATIONS

G.A.R.6
[See Rule 22(1)]
RECEIPT

Docket No 111554

Date/Time 2020/12/24 21:07:59

To
Dr. Lipika Sahoo

Userld: lipikas15

RGB-208, Purva Riviera, Marathahalli-
Whitefield Main Road, Marathahalli.

CBR Detail:

Sr. No.	Ref. No./Application No.	App. Number	Amount Paid	C.B.R. No.	Form Name	Remarks
1	202041056417	TEMP/E-1/62778/2020-CHE	1600	43785	FORM 1	FORMULATION FOR OSTEO-ARTHRITIC AND MUSCULO-SKELETAL PAIN MANAGEMENT
2	E-106/1336/2020/CHE	202041056417	0	----	FORM28	----

TransactionID	Payment Mode	Challan Identification Number	Amount Paid	Head of A/C No
N-0000741600	Online Bank Transfer	2412200011712	1600.00	1475001020000001

Total Amount : ₹ 1600
Amount in Words: Rupees One Thousand Six Hundred Only

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FORM 2

THE PATENTS ACT, 1970 (39 of 1970)
&
THE PATENTS RULES, 2003
PROVISIONALSPECIFICATION
[See section 10 and rule 13]

1. **TITLE OF THE INVENTION: FORMULATION FOR OSTEO-ARTHRITIC AND MUSCULO-SKELETAL PAIN MANAGEMENT**

2. APPLICANT **(A) NAME: YENEPOYA (DEEMED TO BE UNIVERSITY)**

(B) ADDRESS: YENEPOYA (DEEMED TO BE UNIVERSITY), UNIVERSITY ROAD, DERALAKATTE, MANGALORE PIN-575018.

3. **NATIONALITY:** **(C) INDIA**

THE FOLLOWING SPECIFICATION PARTICULARLY DESCRIBES THE INVENTION

ATTESTED
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PATENTS | DESIGNS | TRADE MARKS
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Docket No 79908

Date/Time 08/09/2021

To
Dr. Lipika Sahoo

User Id: lipikas15

RGB-208, Purva Riviera,
Marathahalli-Whitefield Main
Road, Marathahalli.

Sr. No.	Ref. No./Application No.	App. Number	Amount Paid	C.B.R. No.	Form Name	Remarks
1	201941006367	E-91/14837/2021/CHE	0		FER_SER_REPLY	

Total Amount : ₹ 0
Amount in Words: Rupees Only

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FORM 2

THE PATENTS ACT, 1970

(39 of 1970)

&

THE PATENTS RULES, 2003

COMPLETE SPECIFICATION

(See section 10 and rule 13)

1. Title of the Invention

AN ORTHODONTIC APPLIANCE FOR CORRECTING A DEFICIENT MAXILLA CAUSING A SKELETAL CLASS III MALOCCLUSION

2. Applicant(s)

Name	Nationality	Address
YENEPOYA UNIVERSITY	INDIAN	Yenepoya University, University Road, Deralakatte, Mangalore- 575018, Karnataka, India

3. Preamble to the description

The following specification particularly describes the invention and the manner in which it is to be performed

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :17/12/2018

(21) Application No.201841047737 A
(43) Publication Date : 19/06/2020

(54) Title of the invention : HERBAL COMPOSITION AND A PROCESS OF PREPARATION THEREOF

(51) International classification	:A61Q0011000000, A61K0008460000, A61K0036480000, A61K0036750000, A61K0036539000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
1)YENEPOYA UNIVERSITY
Address of Applicant :Yenepoya University, University Road, Deralakatte, Mangalore- 575018, Karnataka, India Karnataka India
(72)**Name of Inventor :**
1)Vidya Bhat
2)Sanath Shetty
3)Mallikarjuna Ragher
4)Santoshi Naik
5)Varsha P Bhat

(57) Abstract :
ABSTRACT HERBAL COMPOSITION AND A PROCESS OF PREPARATION THEREOF The present disclosure provides an herbal composition for maintaining oral hygiene. The composition can remove bio films and stains on dentures, and has antimicrobial effect. The composition comprises powdered Acacia concinna obtained from the pods Acacia concinna, in an amount ranging from 20% to 40 wt% of the total weight of the composition, at least one abrasive, in an amount ranging from 15wt% to 25wt% of the total weight of the composition, at least one humectant, in an amount ranging from 30 wt% to 50 wt% of the total weight of the composition, a fluid medium, in an amount ranging from 1 wt% to 15 wt% of the total weight of the composition, and at least one additive, in an amount ranging from 0.001 wt% to 12 wt% of the total weight of the composition. The present disclosure further provides a process of preparation of the herbal composition.

No. of Pages : 21 No. of Claims : 10

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(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/09/2018

(21) Application No.201841034005 A

(43) Publication Date : 13/03/2020

(54) Title of the invention : A MICROFLUIDIC DEVICE

(51) International classification :B01L0003000000,G01N0033558000,G01N0033543000,G01N0033520000,G01N0021750000

(31) Priority Document No :NA

(32) Priority Date :NA

(33) Name of priority country :NA

(86) International Application No :NA

Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA

Filing Date :NA

(62) Divisional to Application Number :NA

Filing Date :NA

(71)**Name of Applicant :**

1)YENEPOYA UNIVERSITY

Address of Applicant :University Road, Deralakatte, Mangalore, Karnataka India, Pin code-575018 Karnataka India

(72)**Name of Inventor :**

1)K. Sudhakaraprasad

2)Sonia Jospeh

(57) Abstract :

ABSTRACT A MICROFLUIDIC DEVICE The present disclosure relates to the field of paper analytical devices. The present disclosure envisages a microfluidic device (100) configured to detect presence of an analyte within a sample. The device (100) comprises a porous substrate (108), a sample inlet (102), a pre-storage zone (104), and a test zone (106). The pre-storage zone (104) is configured downstream of the sample inlet (102) to receive the sample to be analysed. The pre-storage zone (104) is configured to pre-store at least one reagent therein. The pre-storage zone (104) is configured to facilitate mixing of the sample with the reagent to form a mixture. The test zone (106) is configured on the porous substrate (108) and is in fluid communication with the pre-storage zone. The test zone (106) includes a colorimetric test zone (106A) and an electrochemical test zone (106B) configured to facilitate identification of an analyte present in the mixture.

No. of Pages : 15 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :06/11/2018

(21) Application No.201841041983 A
(43) Publication Date : 08/05/2020

(54) Title of the invention : SHADE TAB AND PROCESS FOR ITS PREPARATION

(51) International classification	:A61C0005770000, A61C0013000000, E04H0004140000, A61C0005730000, C23D0005020000	(71)**Name of Applicant :** **1)YENEPOYA UNIVERSITY** Address of Applicant :Yenepoya University, University Road, Deralakatte, Mangalore- 575018, Karnataka, India. Karnataka India
(31) Priority Document No	:NA	(72)**Name of Inventor :**
(32) Priority Date	:NA	**1)Mallikarjuna Ragher**
(33) Name of priority country	:NA	**2)Sanath Kumar Shetty**
(86) International Application No	:NA	**3)Hasan Sarfaraz**
Filing Date	:NA	**4)Savita Dandekeri**
(87) International Publication No	: NA	**5)Mohammed Zahid**
(61) Patent of Addition to Application Number	:NA	**6)Shifa**
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :
ABSTRACT A SHADE TAB AND A PROCESS FOR ITS PREPARATION The present disclosure relates to a shade tab comprising a metal coping, a first coat of an opaque layer coated on an operative outer surface of the metal coping, a second coat of a dentin layer coated on the opaque layer and an enamel layer coated on the dentin layer. The shade tab of the present disclosure provides the exact shade for metal ceramic crowns and increases the aesthetic appearance. The present disclosure also relates to a process for preparing the shade tab.

No. of Pages : 21 No. of Claims : 10

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :05/10/2018

(21) Application No.201841037809 A
(43) Publication Date : 10/04/2020

(54) Title of the invention : POLYMERIC HYDROGEL

(51) International classification	:A61K0009000000, A61K0047360000, A61K0009060000, A61L0015600000, A61K0009160000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
1)YENEPOYA UNIVERSITY
Address of Applicant :University Road, Deralakatte, Mangalore- 575018, Karnataka, India Tamil Nadu India
(72)**Name of Inventor :**
1)JOHNSON, Renjith Puthiyamadathil
2)PREMAN, Namitha Kottapram

(57) Abstract :
ABSTRACT POLYMERIC HYDROGEL FORMULATION AND PROCESS FOR PREPARING THE SAME. The present disclosure relates to a polymeric hydrogel formulation comprising sodium alginate, poly(N-vinyl caprolactam), at least one cross linking agent. The active agent is embedded in polymeric hydrogel formulation. The polymeric hydrogel formulation is prepared from cross linked polymer of poly(N-vinyl caprolactam) embedded with tannic acid active agent. The hydrogel of the present disclosure is effective as anti-oxidant, anti-inflammatory, anti-bacterial and shows in-vivo wound healing and hemostatic performance. The polymeric hydrogel formulation is biodegradable, water soluble and provides sustained release of active agent.

No. of Pages : 37 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :19/07/2018

(21) Application No.201841026975 A

(43) Publication Date : 24/01/2020

(54) Title of the invention : AN ADDITIVE INFUSION BOTTLE

(51) International classification :B65D0051280000,A61B0005145000,A61M0005145000,B65D0001040000,D06F0039020000

(31) Priority Document No :NA

(32) Priority Date :NA

(33) Name of priority country :NA

(86) International Application No :NA

Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA

Filing Date :NA

(62) Divisional to Application Number :NA

Filing Date :NA

(71)**Name of Applicant :**

1)YENEPOYA UNIVERSITY

Address of Applicant :Yenepoya University, University Road, Deralakatte, Mangalore- 575018, Karnataka. India. Tamil Nadu India

(72)**Name of Inventor :**

1)AKHTER Husain

(57) Abstract :

ABSTRACT AN ADDITIVE INFUSION BOTTLE The present disclosure is related to the field of additive infusers. The envisaged bottle (100) comprises a membrane (115) provided within the bottle (100) to divide the bottle (100) into a primary chamber (105) and a secondary chamber (110). The primary chamber (105) is configured to house a beverage/liquid therein. At least one chamber, configured to house an additive therein, is defined within the secondary chamber (110). The membrane (115) has at least one friable wall (115A) configured thereon. The bottle (100) includes an additive infuser (125) provided in each compartment. Application of pressure on the compartment causes the infuser (125) to rupture the friable wall (115A) and facilitate addition of the additive, stored in the compartment, with the beverage/liquid.

No. of Pages : 16 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :20/06/2018

(21) Application No.201841023063 A
(43) Publication Date : 27/12/2019

(54) Title of the invention : TOOL AND METHOD FOR MEASURING LENGTH OF THE MAXILLARY ARCH

(51) International classification	:A61C19/04; A61C7/00	(71)**Name of Applicant :** **1)YENEPOYA UNIVERSITY** Address of Applicant :Yenepoya University, University Road, Deralakatte, Mangalore- 575018, Karnataka, India. Karnataka India
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	(72)**Name of Inventor :**
Filing Date	:NA	**1)SHETTY, Sanath Kumar**
(87) International Publication No	: NA	**2)J, Rahul**
(61) Patent of Addition to Application Number	:NA	**3)RAGHER, Mallikarjuna**
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :
A hand tool (100) for measuring length of maxillary arch in a subject is disclosed. The hand tool (100) comprises an elongate element (102) having a longitudinal axis, a measuring scale (104) for measuring length of the maxillary arch, the measuring scale (104) pivotably mounted at a distal end of the elongate element (102) for movement about an axis substantially parallel to the longitudinal axis of the elongate element (102), an incisive papilla pointer (106) movably coupled to the longitudinal axis of the elongate element (102), a horizontal adjusting screw (108) and a vertical adjusting screw (110) configured for controlling the movement of the incisive papilla pointer (106), a hamular notch pointer (112) movably coupled to the longitudinal axis of the elongate element (102), and a vertical hamular notch adjusting screw (116) for controlling the movement of the hamular notch pointer (112).

No. of Pages : 19 No. of Claims : 10

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University Road, Deralakatte
Mangalore - 575 018, Karnataka

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :21/06/2018

(21) Application No.201841023270 A
(43) Publication Date : 27/12/2019

(54) Title of the invention : TOOL AND METHOD FOR MEASURING PALATAL DEPTH

(51) International classification	:A61B5/00	(71)**Name of Applicant :**
(31) Priority Document No	:NA	**1)YENEPOYA UNIVERSITY**
(32) Priority Date	:NA	Address of Applicant :Yenepoya University, University Road,
(33) Name of priority country	:NA	Deralakatte, Mangalore- 575018, Karnataka. India Karnataka
(86) International Application No	:NA	India
Filing Date	:NA	(72)**Name of Inventor :**
(87) International Publication No	: NA	**1)SHETTY, Sanath**
(61) Patent of Addition to Application Number	:NA	**2)V, Rekha**
Filing Date	:NA	**3)RAGHER, Mallikarjuna**
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :
A hand tool (100) for measuring palatal depth in a subject and method of measuring palatal depth using the hand tool (100) are disclosed. The hand tool (100) comprises an elongate element (102) having a longitudinal axis, a measuring scale (104) for measuring depth of palate, the measuring scale (104) pivotably mounted at a distal end of the elongate element (102) for movement about an axis substantially perpendicular to the longitudinal axis of the elongate element (102), an incisive papilla pointer (106) movably coupled to the longitudinal axis of the elongate element (102), a horizontal adjusting screw (108) and a vertical adjusting screw (110) for controlling the movement of the incisive papilla pointer (106), a molar jaws pointer (112) movably coupled to the longitudinal axis of the elongate element (102), the movement which is controlled using a molar jaws adjusting screw (114).

No. of Pages : 22 No. of Claims : 10

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Mangalore - 575 018,

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :29/05/2018

(21) Application No.201841020091 A
(43) Publication Date : 06/12/2019

(54) Title of the invention : A DENTAL IMPLANT ABUTMENT

(51) International classification	:A61C8/00	(71)**Name of Applicant :**
(31) Priority Document No	:NA	**1)YENEPOYA UNIVERSITY**
(32) Priority Date	:NA	Address of Applicant :Yenepoya University, University Road,
(33) Name of priority country	:NA	Deralakatte, Mangalore- 575018, Karnataka India Karnataka India
(86) International Application No	:NA	(72)**Name of Inventor :**
Filing Date	:NA	**1)Sarfaraz Mohammed Hasan**
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :
ABSTRACT A DENTAL IMPLANT ABUTMENT A dental implant abutment (100) is described herein. The dental implant abutment (100) is fastened to an implant (200) that is fixed into a jawbone. The abutment supports a crown or an artificial tooth. The abutment (100) comprises a prosthetic interface (100a), an implant interface (100b), and a gingival interface (104) that emerges from the top surface implant interface (100b). Further at least one anti-rotation notch (108) provided around the prosthetic interface (100b). The implant interface (100b) is defined by a primary cone (110a) and three secondary cones (110b) formed around the outer surface of the implant interface (100b). The secondary cones provide positional indexing and stability to the abutment in the implant. The new design of the dental implant abutment (100) is capable of withstanding large magnitude of masticatory forces.

No. of Pages : 20 No. of Claims : 8

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Mangalore - 575 018, Karnataka

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :02/02/2018

(21) Application No.201841004094 A
(43) Publication Date : 09/08/2019

(54) Title of the invention : A COMPUTER IMPLEMENTED SYSTEM FOR PERFORMING STRUCTURAL ANALYSIS OF A MAXILLA AND SIMULATING TREATMENT

(51) International classification :A61C13/00
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
1)YENEPOYA UNIVERSITY
Address of Applicant :Yenepoya University, University Road, Deralakatte, Mangalore- 575018, Karnataka. India Karnataka India
(72)**Name of Inventor :**
1)MASCARENHAS Rohan
2)SHENOY, Satish
3)HUSAIN, Akhter
4)CHATRA, Laxmikanth
5)PARVEEN, Shahistha

(57) Abstract :
ABSTRACT A COMPUTER IMPLEMENTED SYSTEM FOR PERFORMING STRUCTURAL ANALYSIS OF A MAXILLA The present disclosure envisages a computer implemented system (100) for performing structural analysis of a maxilla including its periodontal ligament (PDL) and teeth when subjected to forces exerted by orthodontic appliances virtually. The system comprises a three dimensional model generator (20), a point cloud model generator (30), a solid model generator (40), a meshing module (50) and an analyzing module (60). The three dimensional model generator (20) is configured to generate an aligned three dimensional (3D) model of the maxilla. The point cloud model generator (30) is configured to generate a point cloud model. The solid model generator (40) is configured to generate a solid model of the maxilla. The meshing module (50) is configured to divide the solid model into a finite number of elements to form a finite element model of the maxilla. The analyzing module is configured to display displacement in the teeth and surrounding PDL.

No. of Pages : 35 No. of Claims : 9

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US 20180321244A1

(19) **United States**

(12) **Patent Application Publication** (10) **Pub. No.: US 2018/0321244 A1**

ABDULLA et al. (43) **Pub. Date: Nov. 8, 2018**

(54) **METHOD FOR DETECTION AND DIAGNOSIS OF ORAL CANCER IN A SAMPLE**

(71) Applicant: **YENEPOYA UNIVERSITY**, Mangalore (IN)

(72) Inventors: **Riaz ABDULLA**, Mangalore (IN); **Rekha PUNCHAPPADY DEVASYA**, Puttur (IN); **Sneha PINTO MARIA**, Bangalore (IN); **Yashwanth Subbannayya**, Manipal (IN); **Johan HAFIZ ISKANDAR**, Kuala Lumpur (MY); **Arif ANWAR**, Kuala Lumpur (MY); **Farhaad YENEPOYA MOHAMMED**, Mangalore (IN)

(21) Appl. No.: **15/971,570**

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(30) **Foreign Application Priority Data**

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Publication Classification

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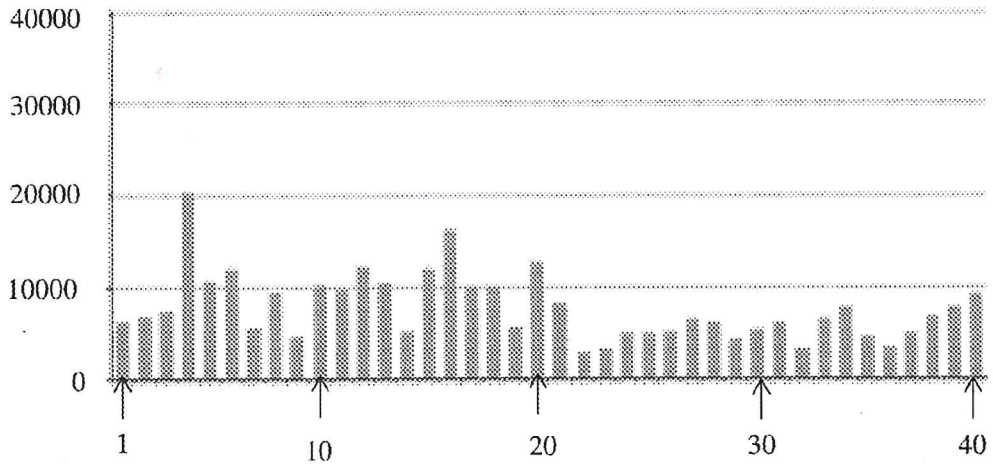
G01N 33/574 (2006.01)
C07K 16/18 (2006.01)

(52) **U.S. Cl.**
CPC ***G01N 33/574*** (2013.01); *G01N 2800/60* (2013.01); ***C07K 16/18*** (2013.01)

(57) **ABSTRACT**

The present disclosure relates to a method for detecting a biomarker selected from the group consisting of Nucleotide binding protein 2 (NUBP2), Testis specific protein Y-linked 3 (TSPY3), XAGE-4 protein (XAGE4), Testis specific protein Y-linked 2 (TSPY2), Replication protein A2 (RPA2), Pyrroline-5-carboxylate reductase 1 (PYCR1), Thymidine kinase 1 (TK1), High mobility group nucleosome binding domain 5 (HMGN5/NSBP1), Rhophilin associated protein 1 (ROPN1, Ropporin), RNA binding motif protein 46 (RBM46), Proteasome (prosome, macropain) activator subunit 3 (PSME3), Keratin 19 (KRT19), Transgelin (TAGLN), Peroxiredoxin (PRDX1), S100 Calcium binding protein A9 (S100A9), and Inosine monophosphate dehydrogenase 1 (IMPDH1), in a sample. The present disclosure provides for the use of biomarker for the detection of oral cancer in a sample. The detection of the biomarker helps in early diagnosis of oral cancer.



(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :23/08/2017

(21) Application No.201741029867 A
(43) Publication Date : 01/03/2019

(54) Title of the invention : A METHOD FOR SIMULATING ORTHODONTIC TREATMENT

(51) International classification	:A61F2/30, A61C9/00, A61C3/00, A61C7/14,
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
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Address of Applicant :University Road, Deralakatte, Mangalore- 575018, Karnataka. India Karnataka India
(72)**Name of Inventor :**
1)MASCARENHAS, Rohan
2)SHENOY, Satish
3)HUSAIN, Akhter
4)CHATRA, Laxmikanth
5)PARVEEN, Shahistha

(57) Abstract :
A method (100) of simulating orthodontic treatment by incorporating an orthodontic bracket based on cephalometric analysis is disclosed. The method (100) comprises steps of obtaining image of teeth of a subject (step 102), performing segmentation so as to generate a three-dimensional virtual model for each individual teeth (step 104), drawing a virtual arc (step 106), positioning the virtual arc at predetermined proximity to the lingual surface of the individual teeth (step 108), converting the virtual arc into a virtual arch wire template (step 110), drawing a virtual Sella-Nasion-A point (SNA) angle using cephalometric analysis (step 112), determining a predetermined teeth position based on the Sella-Nasion-A point (SNA) angle (step 114), incorporating a bracket prescription into the orthodontic bracket based on the predetermined teeth position (step 116), engaging the orthodontic bracket into the arch wire template (step 118) and attaching the orthodontic bracket to the teeth (step 120).

No. of Pages : 29 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :31/08/2017

(21) Application No.201741030940 A
(43) Publication Date : 01/03/2019

(54) Title of the invention : AN ORTHODONTIC BRACKET SYSTEM FOR LINGUAL BRACES

(51) International classification	:A61C 7/14	(71)**Name of Applicant :** **1)YENEPOYA UNIVERSITY** Address of Applicant :University Road, Deralakatte, Mangalore- 575018, Karnataka. India Karnataka India **2)MASCARENHAS Rohan** **3)PARVEEN, Shahistha** **4)SHENOY, Satish**
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	(72)**Name of Inventor :** **1)MASCARENHAS Rohan** **2)PARVEEN, Shahistha** **3)SHENOY, Satish**
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :
The present disclosure envisages a bracket system (100) for lingual orthodontics. The system (100) comprises a first set of vertical brackets in the form of upper anterior brackets (50), premolar brackets (85), first molar tubes (90) and second molar tubes (95), a second set of vertical brackets in the form of lower anterior brackets (80), the premolar brackets (85), the first molar tubes (90) and second molar tubes (95), and a plurality of slots (55). The plurality of slots (55) is configured in the first set of brackets and the second set of brackets. The plurality of slots (55) further configured to receive an upper arch wire (40) and a lower arch wire (41) therein. The bracket system (100) facilitates easy and effective de-crowding of teeth.

No. of Pages : 34 No. of Claims : 13

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/02/2018

(21) Application No.201821006752 A
(43) Publication Date : 01/03/2019

(54) Title of the invention : IDENTIFICATION OF NOVEL PEPTIDES FOR DIAGNOSIS OF BRUCELLOSIS INFECTION IN HUMANS AND ANIMALS USING MRM TECHNOLOGY

(51) International classification	:A61K 39/00
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No	:NA
Filing Date	:NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)**Name of Applicant :**
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4)Payal Khulkhule
5)Lokendra Singh
6)Prasad Thottethodi Subrahmanya Keshava
7)Sneha M. Pinto
8)Saketh Kapoor

(57) Abstract :
The present invention discloses novel peptides from Brucella sp. with the use of Multiple Reaction Monitoring mass spectrometry (MRM-MS) which can be identified in animal and human infected serum samples. Identification of specific peptides which are unique to Brucella sp. offers twin benefits of developing suitable vaccines as well as rapid diagnostic tests. Targeted mass spectrometric assays were developed for 13 peptides (Table 1). Out of 13 peptides, 2 peptides were consistently identified in the infected human and animal serum samples (Table 2). The novel peptides unique to Brucella sp. can be used as highly specific and novel targets for early diagnosis of brucellosis using MRM technology.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :02/02/2017

(21) Application No.201741003863 A
(43) Publication Date : 03/08/2018

(54) Title of the invention : A SYSTEM AND METHOD FOR MASKING AND REMOVING NOISE FROM DIGITAL IMAGES

(51) International classification :A61B5/6887,G06F19/3443
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
1)HEGDE Parameshwar Ramachandra
2)SHENOY Manjunath Mala
3)BASAVEGOWDA Shekar Hema

(57) Abstract :
The present disclosure envisages a system and method for masking and removing noise from digital images. The system (100) includes an image capturing unit (102), an image processing unit (104), a processing unit (114), a database (116), an edge detection unit (118), a segmentation unit (120), a determinator (122), a masking unit (124), a display unit (126), a processor (128), and a memory (130). The image processing unit (104) includes an image input unit (106), a conversion unit (108), a modeling unit (110), and an image output unit (112). The conversion unit (108) converts the captured image into a grayscale image and further converts the grayscale image into a binary image. The modeling unit (110) calculates pixel ratio and luminance from the binary image. The system (100) assists a user to examine large areas of skin quickly and effectively.

No. of Pages : 29 No. of Claims : 10

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :21/01/2017

(21) Application No.201741002382 A
(43) Publication Date : 27/07/2018

(54) Title of the invention : PROCESS FOR EXTRACTION OF EXOPOLYSACCHARIDE AND CAROTENOIDS IN SINGLE FERMENTATION

(51) International classification	:C12P 19/00	(71)**Name of Applicant :** **1)YENEPOYA UNIVERSITY** Address of Applicant :Yenepoya University, University Road, Deralakatte, Mangalore - 575018, Karnataka, India Karnataka India
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	(72)**Name of Inventor :** **1)PUNCHAPPADY DEVASYA, Rekha** **2)ANATHAPADMANABHA BHAGWATH, Arun** **3)POTHEN,Priyanka**
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :
The present disclosure provides a process for the extraction of exopolysaccharide (EPS) and carotenoids from a single microorganism and in a single fermentation. The EPS secreted into the growth medium can be extracted using a hydrophilic fluid medium and the cell-bound carotenoids can be isolated using a polar fluid medium. The EPS extracted exhibit emulsifying, cell proliferative, wound healing and cytotoxic activities. The carotenoids extracted exhibit anti-oxidant activity.

No. of Pages : 30 No. of Claims : 9

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Australian Government

IP Australia

CERTIFICATE OF GRANT

INNOVATION PATENT

Patent number: 2018100578

The Commissioner of Patents has granted the above patent on 23 May 2018, and certifies that the below particulars have been registered in the Register of Patents.

Name and address of patentee(s):

YENEPOYA UNIVERSITY of Yenepoya University University Road Deralakatte Mangalore 575018 Karnataka India

Title of invention:

METHOD FOR DETECTION & DIAGNOSIS OF ORAL CANCER IN A SAMPLE

Name of inventor(s):

ABDULLA, Riaz; PUNCHAPPADY DEVASYA, Rekha; PINTO MARIA, Sneha; SUBBANNAYYA, Yashwanth; HAFIZ ISKANDAR, Johan; ANWAR, Arif and YENEPOYA MOHAMMED, Farhaad

Term of Patent:

Eight years from 4 May 2018

NOTE: This Innovation Patent cannot be enforced unless and until it has been examined by the Commissioner of Patents and a Certificate of Examination has been issued. See sections 120(1A) and 129A of the Patents Act 1990, set out on the reverse of this document.

Priority details:

Number	***Date***	***Filed with***
201741015794	4 May 2017	IN

ATTESTED

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Dated this 23rd day of May 2018

Commissioner of Patents

COMMONWEALTH OF AUSTRALIA
AUSTRALIA
PATENT OFFICE

PATENTS ACT 1990

The Australian Patents Register is the official record and should be referred to for the full details pertaining to this IP Right.

Extracts from the Patents Act, 1990

Sect 120(1A) Infringement proceedings in respect of an innovation patent cannot be started unless the patent has been certified.

Sec 128 **Application for relief from unjustified threats**

(1) Where a person, by means of circulars, advertisements or otherwise, threatens a person with infringement proceedings or other similar proceedings a person aggrieved may apply to a prescribed court, or to another court having jurisdiction to hear and determine the application, for:

(a) a declaration that the threats are unjustifiable; and

(b) an injunction against the continuance of the threats; and

(c) the recovery of any damages sustained by the applicant as a result of the threats.

(2) Subsection (1) applies whether or not the person who made the threats is entitled to, or interested in, the patent or a patent application.

Sec 129A **Threats related to an innovation patent application or innovation patent and courts power to grant relief.**

Certain threats of infringement proceedings are always unjustifiable.

(1) If:

(a) a person:

(i) has applied for an innovation patent, but the application has not been determined; or

(ii) has an innovation patent that has not been certified; and

(b) the person, by means of circulars, advertisements or otherwise, threatens a person with infringement proceedings or other similar proceedings in respect of the patent applied for, or the patent, as the case may be;

then, for the purposes of an application for relief under section 128 by the person threatened, the threats are unjustifiable.

Courts power to grant relief in respect of threats made by the applicant for an innovation patent or the patentee of an uncertified innovation patent

(2) If an application under section 128 for relief relates to threats made in respect of an innovation patent that has not been certified or an application for an innovation patent, the court may grant the application the relief applied for.

Courts power to grant relief in respect of threats made by the patentee of certified innovation patent

(3) If an application under section 128 for relief relates to threats made in respect of a certified innovation patent, the court may grant the applicant the relief applied for unless the respondent satisfies the court that the acts about which the threats were made infringed, or would infringe, a claim that is not shown by the applicant to be invalid.

Schedule 1 **Dictionary**

certified, in respect of an innovation patent other than in section 19, means a certificate of examination issued by the Commissioner under paragraph 101E(e) in respect of the patent

(12) INNOVATION PATENT (11) Application No. **AU 2018100578 A4**
(19) AUSTRALIAN PATENT OFFICE

(54) Title
METHOD FOR DETECTION & DIAGNOSIS OF ORAL CANCER IN A SAMPLE

(51) International Patent Classification(s)
G01N 33/574 (2006.01)

(21) Application No: **2018100578** (22) Date of Filing: **2018.05.04**

(30) Priority Data

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(45) Publication Date: **2018.06.07**
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(45) Granted Journal Date: **2018.06.07**

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Title: AN ANTICANCER COMPOSITION

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau

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08 March 2018 (08.03.2018)

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(10) International Publication Number
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(51) International Patent Classification:
A61K 36/00 (2006.01) *A61K 31/00* (2006.01)
A61K 36/53 (2006.01)

(21) International Application Number:
PCT/IB20 17/055 172

(22) International Filing Date:
29 August 2017 (29.08.2017)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
201641029412 29 August 2016 (29.08.2016) IN

(71) Applicant: **YENEPOYA UNIVERSITY** [IN/IN]; Yenepoya University, University Road, Deralakatte, Mangalore-, Karnataka 575018 (IN).

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(81) Designated States *(unless otherwise indicated, for every kind of national protection available):* AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IR, IS, JO, JP, KE, KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

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Declarations under Rule 4.17:
— *as to the identity of the inventor (Rule 4.17(i))*
— *of inventorship (Rule 4.17(iv))*

Published:
— *with international search report (Art. 21(3))*

(54) Title: AN ANTICANCER COMPOSITION

(57) Abstract: The present disclosure relates to an anticancer composition and a process for preparing the same. The present disclosure envisages an anticancer composition having urticic acid methyl ester, derived from Leucas linifolia, and at least one pharmaceutically acceptable carrier. The anticancer composition of the present disclosure can be used for treating breast cancer.

WO 2018/042323 A1

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :04/05/2017

(21) Application No.201741015794 A
(43) Publication Date : 11/05/2018

(54) Title of the invention : METHOD FOR DETECTION & DIAGNOSIS OF ORAL CANCER IN A SAMPLE

(51) International classification	:A61B 17/24	(71)**Name of Applicant :** **1)YENEPOYA UNIVERSITY** Address of Applicant :Yenepoya University, University Road, Deralakatte Mangalore Karnataka INDIA 575018 Karnataka India
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	(72)**Name of Inventor :**
(86) International Application No	:NA	**1)ABDULLA, Riaz**
Filing Date	:NA	**2)PUNCHAPPADY DEVASYA, Rekha**
(87) International Publication No	: NA	**3)PINTO MARIA, Sneha**
(61) Patent of Addition to Application Number	:NA	**4)SUBBANNAYYA, Yashwanth**
Filing Date	:NA	**5)HAFIZ ISKANDAR, Johan**
(62) Divisional to Application Number	:NA	**6)ANWAR, Arif**
Filing Date	:NA	**7)YENEPOYA MOHAMMED Farhaad**

(57) Abstract :
The present disclosure relates to a method for detecting a biomarker selected from the group consisting of Nucleotide binding protein 2 (NUBP2), Testis specific protein Y-linked 3 (TSPY3), XAGE-4 protein (XAGE4), Testis specific protein Y-linked 2 (TSPY2), Replication protein A2 (RPA2), Pyrroline-5-carboxylate reductase 1 (PYCR1), Thymidine kinase 1 (TK1), High mobility group nucleosome binding domain 5 (HMGN5/NSBP1), Rhophilin associated protein 1 (ROPN1, Ropporin), RNA binding motif protein 46 (RBM46), Proteasome (prosome, macropain) activator subunit 3 (PSME3), Keratin 19 (KRT19), Transgelin (TAGLN), Peroxiredoxin (PRDX1), S100 Calcium binding protein A9 (S100A9), and Inosine monophosphate dehydrogenase 1 (IMPDH1), in a sample. The present disclosure provides for the use of biomarker for the detection of oral cancer in a sample. The detection of the biomarker helps in early diagnosis of oral cancer.

No. of Pages : 28 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :29/08/2016

(21) Application No.201641029412 A
(43) Publication Date : 09/03/2018

(54) Title of the invention : ANTICANCER COMPOUND AND A PROCESS FOR ISOLATING THE SAME

(51) International classification	:C07K 14/00	(71)**Name of Applicant :** **1)YENEPOYA UNIVERSITY** Address of Applicant :University Road, Deralakatte, Mangalore- 575018. Karnataka India
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	(72)**Name of Inventor :** **1)PAI Vinitha Ramanath** **2)RAI Vaishali**
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :
ABSTRACT AN ANTICANCER COMPOSITION The present disclosure relates to an anticancer composition and a process for preparing the same. The present disclosure envisages an anticancer composition having urticic acid methyl ester, derived from Leucas linifolia, and at least one pharmaceutically acceptable carrier. The anticancer composition of the present disclosure can be used for treating breast cancer.

No. of Pages : 33 No. of Claims : 14

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/01/2016

(21) Application No.201641000962 A
(43) Publication Date : 17/11/2017

(54) Title of the invention : A PROCESS FOR PREPARING A METAL BASE FOR ORTHODONTIC APPLICATIONS

(51) International classification	:A61C 7/00	(71)**Name of Applicant :** **1)YENEPOYA UNIVERSITY** Address of Applicant :University Road, Deralakatte, Mangaluru 575018, Karnataka, India. Karnataka India
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	(72)**Name of Inventor :** **1)ALAGESAN Anitha Magesh** **2)HUSAIN Akhter** **3)KINI Raghavendra**
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :
The present disclosure envisages process for preparing a metal base for orthodontic applications. The process comprises the steps providing a metal substrate; etching the metal substrate to obtain an etched metal substrate; disposing the etched metal substrate in a reactor; forming carbon nanotubes by evaporation and decomposition, proximal to the etched metal substrate, of at least one carbon source in presence of at least one catalyst, wherein the at least one carbon source and the at least one catalyst are carried within the chemical vapour deposition reactor via a carrier gas; depositing the formed carbon nanotubes on the etched metal substrate; and processing the etched metal substrate at a temperature of 800oC for a pre-determined time period to obtain the metal base.

No. of Pages : 14 No. of Claims : 6

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
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(21) Application No.201641003405 A
(43) Publication Date : 17/11/2017

(54) Title of the invention : POWER GENERATION SYSTEM

(51) International classification	:G01K 5/00	(71)**Name of Applicant :** **1)YENEPOYA UNIVERSITY** Address of Applicant :University Road, Deralakatte, Mangalore-575018, Karnataka, India Karnataka India
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	(72)**Name of Inventor :** **1)VEIGAS, Praveen** **2)NAIK, Dinesh**
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :
The present disclosure is related to power generating systems. The power generating system of the present disclosure is created using weight balancing principle and does not require fuel energy for generation of electric energy, does not require fuel or any chemical reaction for generation of electric energy, and does not cause pollution and thereby is non-hazardous to any living being or environment. The power generating system comprises a frame having plurality of support structure, at least two supporting levers, a plurality of loads, a first gearbox, a first lifter, a second lifter, and a power generating element. The power generating element receives a rotary drive from the rotating shaft connected to the gearbox and converts the rotary drive to electric power.

No. of Pages : 26 No. of Claims : 9

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(19) INDIA
(22) Date of filing of Application :30/01/2016

(21) Application No.201641003406 A
(43) Publication Date : 17/11/2017

(54) Title of the invention : A PORTABLE DENTAL SCALER

(51) International classification	:A61K 6/00	(71)**Name of Applicant :** **1)YENEPOYA UNIVERSITY** Address of Applicant :University Road, Deralakatte, Mangalore-575018, Karnataka, India Karnataka India
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	(72)**Name of Inventor :** **1)KALLEM Divya** **2)TENNETI Shanti**
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :
The present disclosure relates to the field of dental scaler. The portable dental scaler of the present disclosure is wireless, compact, battery operated in nature. The portable dental scaler has an inbuilt water reservoir and an LED light. As disclosed in the specification, the portable dental scaler comprises a battery pack configured to provide power supply, (ii) a submersible pump adapted to cooperate with the battery pack to receive the power supply and configured to pump water to a water tube, (iii) a vibration motor adapted to cooperate with the battery pack to receive the power supply and configured to generate high frequency vibrations, and (iv) a scaler tip adapted to cooperate with the water tube and the vibration motor to receive the water and the high frequency vibrations respectively, and configured to perform scaling operation on teeth.

No. of Pages : 18 No. of Claims : 6

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :02/02/2016

(21) Application No.201641003579 A
(43) Publication Date : 17/11/2017

(54) Title of the invention : PROCESS FOR PRODUCING DEPOLYMERIZED EXOPOLYSACCHARIDES

(51) International classification	:C12P 19/00	(71)**Name of Applicant :** **1)YENEPOYA UNIVERSITY** Address of Applicant :University Road, Deralakatte, Mangalore-575018, Karnataka, India Karnataka India
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	(72)**Name of Inventor :** **1)PUNCHAPPADY DEVASYA Rekha** **2)ANATHAPADMANABHA BHAGWATH Arun** **3)POTHEN Priyanka**
(86) International Application No Filing Date	:NA :NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number Filing Date	:NA :NA	
(62) Divisional to Application Number Filing Date	:NA :NA	

(57) Abstract :
The present disclosure relates to a process for producing depolymerized exopolysaccharides from native exopolysaccharides extracted from microorganisms.The process involves a method for producing depolymerized exopolysaccharide by sonication of native exopolysaccharide, followed by oversuphating to obtain sulphated depolymerized exopolysaccharide. The depolymerized exopolysaccharide and the sulphated depolymerized exopolysaccharide can be used in a composition to produce cell proliferative, wound healing, and cytotoxic activities.

No. of Pages : 27 No. of Claims : 9

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :02/03/2016

(21) Application No.201641007397 A
(43) Publication Date : 08/09/2017

(54) Title of the invention : A PORTABLE ASSEMBLY FOR CONDUCTING ON-SITE DENTAL PROCEDURES

(51) International classification	:A61C 1/00	(71)**Name of Applicant :** **1)YENEPOYA UNIVERSITY** Address of Applicant :University Road, Deralakatte, Mangalore-575018, Karnataka, India Karnataka India
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	(72)**Name of Inventor :** **1)SHETTY Roshini Chandra**
(86) International Application No Filing Date	:NA :NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number Filing Date	:NA :NA	
(62) Divisional to Application Number Filing Date	:NA :NA	

(57) Abstract :
The present disclosure envisages a portable assembly for conducting on-site dental procedures without the need of a dental chair. The assembly comprises a portable hand-held dental drill for performing the dental procedures, and a portable coolant reservoir that is in fluid communication with the portable hand-held drill via a first conduit. A portable compressor is in fluid communication with the portable hand-held drill via a second conduit, wherein the portable hand-held drill is configured to spray a mixture of a coolant and air on the location at which the dental procedure is performed to provide cooling, improved visibility, and cleansing thereof. Fig.1A

No. of Pages : 17 No. of Claims : 9

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :24/03/2014

(21) Application No.1551/CHE/2014 A
(43) Publication Date : 01/07/2016

(54) Title of the invention : AN APPARATUS FOR DETERMINING SPACE AVAILABLE FOR ORTHODONTIC CORRECTION

(51) International classification	:G06F	(71)**Name of Applicant :**
(31) Priority Document No	:NA	**1)YENEPOYA UNIVERSITY**
(32) Priority Date	:NA	Address of Applicant :University Road, Deralakatte,
(33) Name of priority country	:NA	Mangalore, Karnataka - 575018 Karnataka India
(86) International Application No	:NA	(72)**Name of Inventor :**
Filing Date	:NA	**1)MASCARENHAS ROHAN**
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :
An apparatus for determining space available for an orthodontic correction on teeth of a subject is disclosed. The apparatus includes a flexible metallic element bendable in a substantially arcuate configuration corresponding to an arch form selected for the subject. The metallic element includes gradations of pre-determined length defined thereon to facilitate determination of the space available for orthodontic correction, wherein each of the gradations comprises marking substantially at a midline coinciding with a midline of the arch form.

No. of Pages : 17 No. of Claims : 7

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :12/08/2014

(21) Application No.3953/CHE/2014 A
(43) Publication Date : 01/07/2016

(54) Title of the invention : COOLANT COMPOSITION FOR USE AS METAL WORKING FLUIDS IN MACHINE TOOLS

(51) International classification :B23Q
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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2)Vinitha Ramanath Pai
(72)**Name of Inventor :**
1)Badrunnisa.S
2)Vinitha Ramanath Pai

(57) Abstract :
This invention relates to a coolant composition for use as metal working fluid in machine tools, comprising at least one coolant oil and extracts of the plant Eucalyptus tereticornis and optionally water.

No. of Pages : 15 No. of Claims : 3

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :02/07/2012

(21) Application No.2641/CHE/2012 A
(43) Publication Date : 08/04/2016

(54) Title of the invention : ORTHODONTIC MINI IMPLANT WITH A BUILT-IN RETRACTION MECHANISM

(51) International classification	:A61C	(71)**Name of Applicant :**
(31) Priority Document No	:NA	**1)YENEPOYA UNIVERSITY**
(32) Priority Date	:NA	Address of Applicant :UNIVERSITY ROAD,
(33) Name of priority country	:NA	DERALAKATTE, MANGALORE - 575 018 Karnataka India
(86) International Application No	:NA	(72)**Name of Inventor :**
Filing Date	:NA	**1)HUSAIN AKHTER**
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :
ABSTRACT An orthodontic implant is disclosed. The orthodontic implant includes a mini screw, a holder, and a spring mechanism. The holder is functionally disposed on the mini screw. The holder has at least one holding member configured thereon. The spring mechanism includes a nitinol (Nickel titanium alloy) wire and at least one fastening element. The at least one fastening, element is connected to at least one operative end of said nitinol wire. The at least one fastening element is held in the at least one holding member configured on the holder. The spring mechanism is connected to the mini screw by means of the at least one fastening element and the at least one holding member configured on the holder.

No. of Pages : 17 No. of Claims : 7

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :02/07/2014

(21) Application No.3257/CHE/2014 A
(43) Publication Date : 12/02/2016

(54) Title of the invention : A COMPUTER IMPLEMENTED SYSTEM FOR PERFORMING STRUCTURAL ANALYSIS AND METHOD THEREOF

(51) International classification	:g06t	(71)**Name of Applicant :**
(31) Priority Document No	:NA	**1)YENEPOYA UNIVERSITY**
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(86) International Application No	:NA	(72)**Name of Inventor :**
Filing Date	:NA	**1)MASCARENHAS ROHAN**
(87) International Publication No	: NA	**2)SHENOY SATISH**
(61) Patent of Addition to Application Number	:NA	**3)PARAYAMPARAMPIL NAZEER**
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :
A computer implemented system for performing structural analysis of an asymmetrical structure typically a craniofacial structure, wherein the system comprises: an input/constructing module to receive a 2D image of the structure and construct a 3D model of the structure; a refining module to receive the 3D model and refine the 3D model to produce accurate contour of a 3D surface model of the structure; a meshing module to receive the 3D surface model and convert the 3Dimensional surface model into a corresponding 3D solid model; and an analyzing module to receive the 3D solid model and divide the 3Dimensional solid model into finite number of elements to form a finite element model of the structure. Fig 1

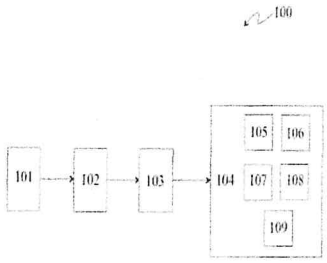

Figure 1

No. of Pages : 35 No. of Claims : 10

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :23/04/2014

(21) Application No.2064/CHE/2014 A
(43) Publication Date : 01/01/2016

(54) Title of the invention : A SYSTEM AND METHOD OF DETERMINING FACIAL SKELETAL PATTERNS

(51) International classification	:G06T7/00	(71)**Name of Applicant :**
(31) Priority Document No	:NA	**1)YENEPOYA UNIVERSITY**
(32) Priority Date	:NA	Address of Applicant :University Road, Deralakatte,
(33) Name of priority country	:NA	Mangalore 575018, Karnataka, India. Karnataka India
(86) International Application No	:NA	(72)**Name of Inventor :**
Filing Date	:NA	**1)MASCARENHAS ROHAN**
(87) International Publication No	: NA	**2)PARVEEN SHAHISTA**
(61) Patent of Addition to Application Number	:NA	**3)SHETTY RAGHAVENDRA**
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :
A computer implemented system and method for analyzing facial skeletal patterns of a subject is disclosed. The system includes an acquisition module to acquire cephalogram of the subject, a scaling module to identify and mark a plurality of cephalometric points on the cephalogram and further define a plurality of triangles by using at least two of the cephalometric points in combination with other cephalometric points, a calculating module to calculate an area of each of the plurality of triangles and an angle defined by each of the two cephalometric points in combination with other cephalometric points of each of the plurality of triangles and an analyzing module to analyze the calculated area and the angle to determine facial skeletal structures.

No. of Pages : 34 No. of Claims : 10

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