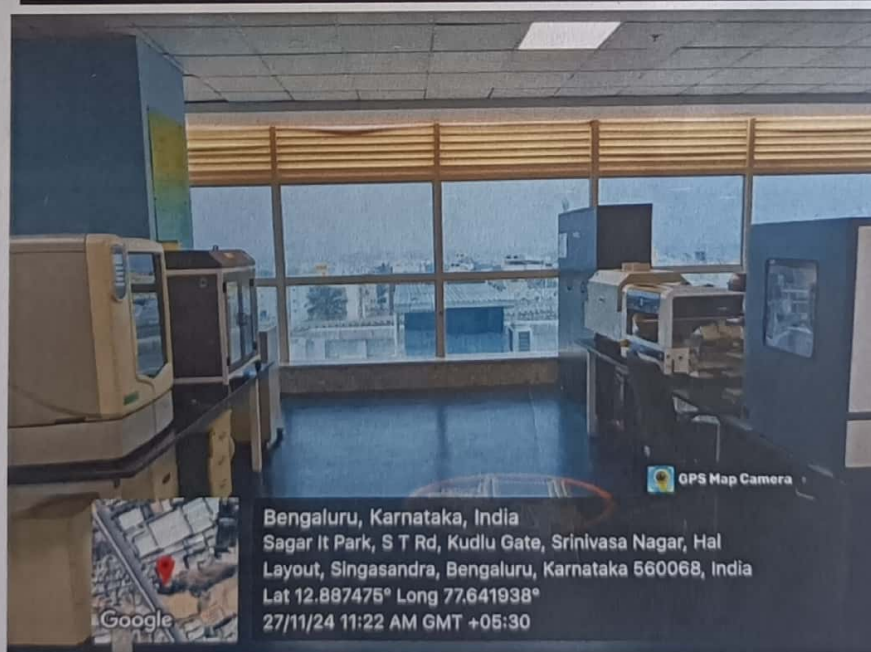
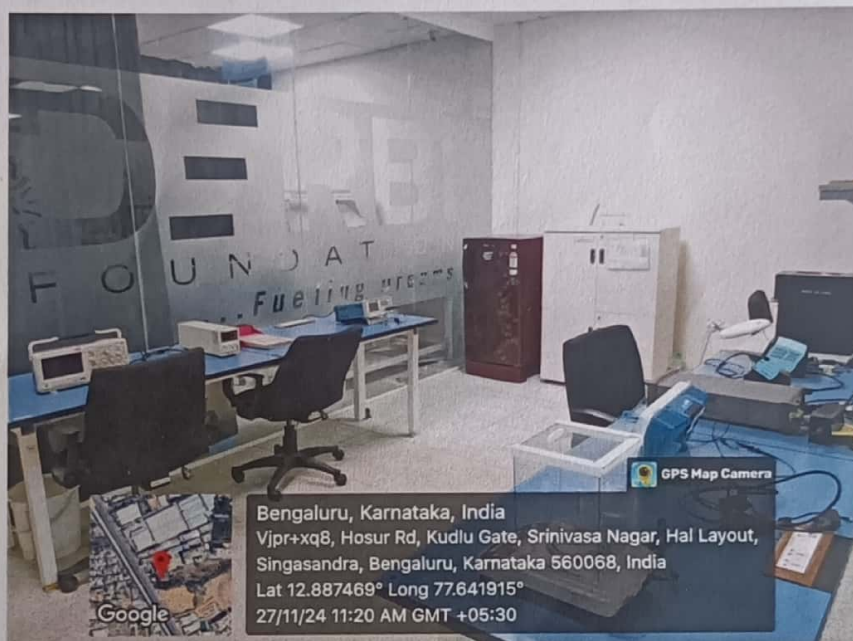




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DSCDS/ARSC/IMF(Faculty)/2023-24/

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DSCDS/ARSC/IMF(Faculty)/2023-24/

Details of Faculty Patents

Sr No	Name of the Faculty	Title of the Patent	Category Utility/ Design	Patent Number	Date of Application	Date of Publication	Date of Patent Grant
1	Dr Dharam Hinduja	Automated Tooth Shade Matching system Using Artificial Intelligence	Design	418646-001	31/05/2024		04/07/2024
2	Dr Dharam Hinduja	An Endodontic Equipment With Adaptive Control	Design	421488-001	27/06/2024		19/07/2024

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3	Dr Dharam Hinduja	Automated Dental Radiograph Analysis System for Early Detection of Caries and Periodontal Disease	Design	418648-001	31/05/2024		18/07/2024
4	Dr Dharam Hinduja	System and Method to detect the size of unerupted canines using unsupervised Machine Learning Technique	Utility	20234108295 A	5/12/23	5/1/24	Yet to be
5	Dr Dharam Hinduja	System and Method to detect periapical granuloma using convolutional neural networks	Utility	202441042228 A	31/05/24	07/06/2024	Yet to be


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6	Dr Shobha E.S	A NEW CLASSIFICATION FOR TEMPEROM ANDIBULAR DISORDERS BASED ON ALGOMETER READINGS	INDIAN UTILITY PATENT	202441051920	07/07/2024	12/07/2024	Yet to be
7	Dr Shobha E.S	PINNACLE POSITIONER (PPA): A CLINICAL ADVANCED INNOVATION	-	202341014335	03/03/2023	-	-
8	Dr Vinod Rangan	A NEW CLASSIFICATION FOR TEMPEROM ANDIBULAR DISORDERS BASED ON ALGOMETER READINGS	INDIAN UTILITY PATENT	202441051920	07/07/2024	12/07/2024	Yet to be
9	Dr.Pradeep	NOVEL MINIATURE DIGITAL GAUGE FOR ANALYSING DENTOFORCE	Design	202341035353A	22/05/2023	01/09/2323	
10	Dr.Pradeep	L ATTACHMET	DESIGN	419760-001	12/06/24	-	30/07/24

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		S FOR OVERDENTU RES TO INCREASE RETENTION ANS STABILITY					
11	Dr.Savita A M	A METHOD FOR TREATING PERIODONTI TIS USING HERBAL TOPICAL GEL	Utility	02441063 500 A	22-08- 2024	30-08- 2024	Awaiting
12	Dr Hemanth M	Microimplan t Positioning guide	Indian utility Patent	20234101 4334	03/03/202 3		Yet to be
13	Dr Hemanth M	Pinnacle Positioner(P PA):A Clinical Advanced Innovation	Indian Utility Patent	20234101 4335	03/03/202 3		Yet to be
14	Dr Aravind M	MicroImplan t Positioning guide	Indian utility Patent	20234101 4334	03/03/202 3		Yetto be
15	Dr Aravind M	Pinnacle Positioner(P PA):A Clinical Advanced Innovation	Indian Utility Patent	20234101 4335	03/03/202 3		Yet to be
16	Dr Afshan Saman Waremani	Microimplan t Positioning guide	Indian utility Patent	20234101 4334	03/03/202 3		Yet to be
17	Dr Afshan Saman Waremani	Pinnacle Positioner(P PA):A Clinical Advanced Innovation	Indian Utility Patent	20234101 4335	03/03/202 3		Yetto be
18	Dr Prajwal Prabhu	Microimplan t Positioning guide	Indian utility Patent	20234101 4334	03/03/202 3		Yet to be

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19	Dr Prajwal Prabhu	Pinnacle Positioner(P PA):A Clinical Advanced Innovation	Indian Utility Patent	20234101 4335	03/03/202 3		Yet to be
20	Dr Smitha Sharan	Artificial intelligence based device for detection of oral cancer	Design	412578- 001	05-03- 2024	04-042024	05-06- 2024
21	Dr Prashanth NT	A NEW CLASSIFICATI ON FOR TEMPOROM ANDIBULAR DISORDERS BASED ON ALGOMETER READINGS	INDIAN UTILITY PATENT	20244105 1920	07/07/202 4	12/07/202 4	Yet to be
22	DR PRASHANT H N T	MICROIMPL ANT POSITIONIN G GUIDE	-	20234101 4334	03/03/202 3	-	-
23	Dr Krishnana nd	Pinnacle Positioner (PP): A Clinical Advanced Innovation	Indian Utility Patent	20234101 4335	03/03/202 3	-	Yet to be
24	Dr.Sarand ha	NOVEL MINIATURE DIGITAL GAUGE FOR	Design	20234103 5353A	22/05/202 3	01/09/232 3	

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		ANALYSING DENTOFORC E					
25	Dr.Smitha	NOVEL MINIATURE DIGITAL GAUGE FOR ANALYSING DENTOFORC E	Design	20234103 5353A	22/05/202 3	01/09/232 3	
26	Dr Sreeharsh a	NOVEL MINIATURE DIGITAL GAUGE FOR ANALYSING DENTOFORC E	Design	20234103 5353A	22/05/202 3	01/09/232 3	
27	Dr Brunda	NOVEL MINIATURE DIGITAL GAUGE FOR ANALYSING DENTOFORC E	Design	20234103 5353A	22/05/202 3	01/09/232 3	
28	Dr.Sarand ha	L ATTACHMET S FOR OVERDENTU RES TO INCREASE RETENTION ANS STABILITY	DESIGN	419760- 001	12/06/24	-	30/07/24
29	Dr.Smitha	L ATTACHMET S FOR OVERDENTU RES TO INCREASE	DESIGN	419760- 001	12/06/24	-	30/07/24

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		RETENTION ANS STABILITY					
30	Dr.Shreeh arsha	L ATTACHMET S FOR OVERDENTU RES TO INCREASE RETENTION ANS STABILITY	DESIGN	419760- 001	12/06/24	-	30/07/24
31	Dr.Brunda	L ATTACHMET S FOR OVERDENTU RES TO INCREASE RETENTION ANS STABILITY	DESIGN	419760- 001	12/06/24	-	30/07/24
32	Dr.Harshit ha	L ATTACHMET S FOR OVERDENTU RES TO INCREASE RETENTION ANS STABILITY	DESIGN	419760- 001	12/06/24	-	30/07/24


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(Recognized by Dental Council of India, New Delhi)

Accredited A+ Grade by NAAC

DSCDS/ARSC/IMF(Faculty)/2023-24/

Details of Faculty PATENTS and INNOVATIONS

INTELLECTUAL PROPERTY INDIA
भारत सरकार, भारत सरकार
The Patent Office, Government Of India

डिजाइन के पंजीकरण का प्रमाण पत्र | Certificate of Registration of Design

डिजाइन सं. / Design No. 418648-001
तारीख / Date 31/05/2024
पारस्परिकता तारीख / Reciprocity Date :
देश / Country

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो **AUTOMATED DENTAL RADIOGRAPH ANALYSIS SYSTEM FOR EARLY DETECTION OF CARIES AND PERIODONTAL DISEASE** से संबंधित है, का पंजीकरण, श्रेणी 24-01 में 1.Dr. Anagha Shete 2. Dr. Puneet Ahuja 3.Dr. Khushboo Rastogi 4.Dr. Harpreet Singh Chhabra 5.Dr. G. M. Sogi 6.Dr. Bennete Aloysius Fernandes 7.Dr. Abhishek Singh 8.Dr. Shilpi 9.Dr. Dharam M. Hinduja 10.Rakesh Kumar के नाम में उपर्युक्त संख्या और तारीख में कर लिया गया है।

Certified that the design of which a copy is annexed hereto has been registered as of the number and date given above in class 24-01 in respect of the application of such design to **AUTOMATED DENTAL RADIOGRAPH ANALYSIS SYSTEM FOR EARLY DETECTION OF CARIES AND PERIODONTAL DISEASE** in the name of 1.Dr. Anagha Shete 2. Dr. Puneet Ahuja 3.Dr. Khushboo Rastogi 4.Dr. Harpreet Singh Chhabra 5.Dr. G. M. Sogi 6.Dr. Bennete Aloysius Fernandes 7.Dr. Abhishek Singh 8.Dr. Shilpi 9.Dr. Dharam M. Hinduja 10.Rakesh Kumar.

डिजाइन अधिनियम, 2000 तथा डिजाइन नियम, 2001 के अन्वये प्रारम्भ के अनुसार।
In pursuance of and subject to the provisions of the Designs Act, 2000 and the Designs Rules, 2001.

जारी करने की तिथि : 18/07/2024
Date of Issue : 18/07/2024

प्रमुख पेटेंट डिजाइन और व्यापार चिह्न
Controller General of Patents, Designs and Trade Marks

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ORIGINAL
#म सं/ Serial No. : 175762



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Certificate of Registration of Design

डिजाइन सं. / Design No. : 418648-001

तारीख / Date : 31/05/2024

परस्परिकता तारीख / Reciprocity Date :

देश / Country :

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो **AUTOMATED DENTAL RADIOGRAPH ANALYSIS SYSTEM FOR EARLY DETECTION OF CARIES AND PERIODONTAL DISEASE**

से संबंधित है, का पंजीकरण, श्रेणी 24-01 में 1.Dr. Anagha Shete 2. Dr. Puneet Ahuja 3.Dr. Khushboo Rastogi 4.Dr. Harpreet Singh Chhabra 5.Dr. G. M. Sogi 6.Dr. Bennete Aloysius Fernandes 7.Dr. Abhishek Singh 8.Dr. Shilpi 9.Dr. Dharam M. Hinduja 10.Rakesh Kumar के नाम में उपर्युक्त संख्या और तारीख में कर लिया गया है।

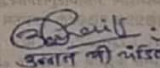
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जारी करने की तिथि :
Date of Issue : 18/07/2024




उपानयनी नरसिंह
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इम सं/ Serial No : 175925



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डिजाइन सं. / Design No. : 421488-001

तारीख / Date : 27/06/2024

पारस्परिकता तारीख / Reciprocity Date :

देश / Country :

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डिजाइन अधिनियम, 2000 तथा डिजाइन नियम, 2001 के अध्यापीन प्रावधानों के अनुसरण में।

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Date of Issue : 19/07/2024



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इम सं/ Serial No: 173957



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डिजाइन सं. / Design No. 418646-001

तारीख / Date 31/05/2024

पारस्परिकता तारीख / Reciprocity Date*

देश / Country

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो **AUTOMATED TOOTH SHADE MATCHING SYSTEM USING ARTIFICIAL INTELLIGENCE** से संबंधित है, का पंजीकरण, श्रेणी 24-01 में 1.Dr. N. Senthil Nathan 2. Dr. Swati Chhabra 3.Dr. Paras Mull J 4.Dr. Ankita Sharma 5.Dr. Siddharth Nautiyal 6.Dr. Rajinder Kumar Bansal 7.Dr. Shankar 8.Dr. Shivani Vinayakrao Chavan 9.Dr. Manu Bansal 10.Dr. Dharam M. Hinduja के नाम में उपर्युक्त संख्या और तारीख में कर लिया गया है।

Certified that the design of which a copy is annexed hereto has been registered as of the number and date given above in class 24-01 in respect of the application of such design to **AUTOMATED TOOTH SHADE MATCHING SYSTEM USING ARTIFICIAL INTELLIGENCE** in the name of 1.Dr. N. Senthil Nathan 2. Dr. Swati Chhabra 3.Dr. Paras Mull J 4.Dr. Ankita Sharma 5.Dr. Siddharth Nautiyal 6.Dr. Rajinder Kumar Bansal 7.Dr. Shankar 8.Dr. Shivani Vinayakrao Chavan 9.Dr. Manu Bansal 10.Dr. Dharam M. Hinduja.

डिजाइन अधिनियम, 2000 तथा डिजाइन नियम, 2001 के अन्वयेन प्रावधानों के अनुसरण में।

In pursuance of and subject to the provisions of the Designs Act, 2000 and the Designs Rules, 2001.

जारी करने की तिथि
Date of Issue: 04/07/2024



(Signature)
उपस्थान की प्रति
माहिमोहक पेटेंट, डिजाइन और व्यापार चिह्न
Controller General of Patents, Designs and Trade Marks

*पारस्परिकता तारीख (यदि कोई हो) जिसकी अनुमति दी गई है तथा देश का नाम। डिजाइन का स्वतः अधिकार पंजीकरण की तारीख से दस वर्षों के लिए होगा जिसका विस्तार, अधिनियम एवं नियम के निबन्धनों के अन्वीन, पाँच वर्षों की अतिरिक्त अवधि के लिए किया जा सकेगा। इस प्रमाण पत्र का उपयोग विधिक कार्रवाहियों अथवा विदेश में पंजीकरण प्राप्त करने के लिए नहीं हो सकता है।
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Design Application Details

Application Number:

421488-001

Cbr Number:

211276

Cbr Date:

27/06/2024 18:19:00

Applicant Name:

1. Dr. Ajay Paliwal
2. Dr. Sandeep Dubey
3. Dr. Hitesh Gupta
4. Dr. Harpreet Singh Chhabra
5. Dr. Kshiti Bhardwaj
6. Dr. Rakhee Sinha
7. Dr. Shweta Chaudhary
8. Dr. Mayur Chaudhary
9. Dr. Paras Mull J
10. Dr. Dharam M. Hinduja

Design Application Status

Application Status:

Application Under Process(wating for
Technical Examination)


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Department of Industrial Policy and Promotion
Ministry of Commerce and Industry

Design Application Details

Application Number:

427911-001

Cbr Number:

215098

Cbr Date:

23/08/2024 10:27:35

Applicant Name:

1. Dr. N. Senthil Nathan
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7. Dr. Siddharth Nautiyal
8. Dr. Priya Kumari
9. Dr. R. Tamilselvi
10. Dr. Dharam M. Hinduja

Design Application Status

Application Status:

Application Under Process(wating for
Technical Examination)

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Bangalore - 560 078.

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(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341082945 A

(19) INDIA

(22) Date of filing of Application :05/12/2023

(43) Publication Date : 05/01/2024

(54) Title of the invention : SYSTEM AND METHOD TO DETECT THE SIZE OF UNERUPTED CANINES USING UNSUPERVISED MACHINE LEARNING TECHNIQUE

(31) International Classification
(32) International Application No.
(33) International Publication No.
(34) Prior art document
(35) Priority
(36) International Classification
(37) Priority

(1) Name of Applicant
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(3) Name of Inventor
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(14) Address of Applicant
(15) Name of Inventor
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(95) Name of Inventor
(96) Address of Inventor
(97) Name of Applicant
(98) Address of Applicant
(99) Name of Inventor
(100) Address of Inventor

(39) Summary
The present invention relates to a system and method for detecting the size of unerupted canines using unsupervised machine learning technique. The system includes a data acquisition module, a data preprocessing module, a feature extraction module, a clustering module, and a size detection module. The method includes acquiring a set of dental X-ray images, preprocessing the images, extracting features from the images, clustering the features, and detecting the size of the unerupted canines based on the clustering results.

No. of Pages : 16 No. of Claims : 3

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Ministry of Commerce and Industry

Design Application Details

Application Number:

418646-001

Cbr Number:

209432

Cbr Date:

31/05/2024 18:02:56

Applicant Name:

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3. Dr. Paras Mull J
4. Dr. Ankita Sharma
5. Dr. Siddharth Nautiyal
6. Dr. Rajinder Kumar Bansal
7. Dr. Shankar
8. Dr. Shivani Vinayakrao Chavan
9. Dr. Manu Bansal
10. Dr. Dharam M. Hinduja

Design Application Status

Application Status:

Application Under Process(wating for

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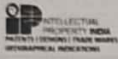
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Department of Industrial Policy and Promotion
Ministry of Commerce and Industry

Design Application Details

Application Number:

418648-001

Cbr Number:

209432

Cbr Date:

31/05/2024 18:02:56

Applicant Name:

1. Dr. Anagha Shete
2. Dr. Puneet Ahuja
3. Dr. Khushboo Rastogi
4. Dr. Harpreet Singh Chhabra
5. Dr. G. M. Sogi
6. Dr. Bennete Aloysius Fernandes
7. Dr. Abhishek Singh
8. Dr. Shilpi
9. Dr. Dharam M. Hinduja
10. Rakesh Kumar

Design Application Status

Application Status:

Application Under Process(wating for
Technical Examination)

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Office of the Controller General of Patents, Designs & Trade Marks
Department for Promotion of Industry and Internal Trade
Ministry of Commerce & Industry,
Government of India

Application Details

APPLICATION NUMBER	202441051920
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	07/07/2024
APPLICANT NAME	1 . Dr. Samiksha Gour 2 . Prof. Dr. Prashanth N.T 3 . Prof. Dr. Shobha E.S. 4 . Dr. Vinod Rangan 5 . Dr. Neha V Nainoor 6 . Dr. J. Shirisha 7 . Dr. Anusha B L
TITLE OF INVENTION	A NEW CLASSIFICATION FOR TEMPOROMANDIBULAR DISORDERS BASED ON ALGOMETER READINGS
FIELD OF INVENTION	BIO-MEDICAL ENGINEERING
E-MAIL (As Per Record)	subramaniannagu@gmail.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	12/07/2024

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FORM 2

THE PATENTS ACT, 1970

[39 of 1970]

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THE PATENTS RULES, 2003

COMPLETE SPECIFICATION

[See section 10 and rule 13]

"A NEW CLASSIFICATION FOR TEMPOROMANDIBULAR DISORDERS BASED ON ALGOMETER READINGS"

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PREAMBLE OF THE DESCRIPTION

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

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Declaration As To Inventorship - Form 5

Application Number: 202341014335

Date of Filing: 03/03/2023

Title Of Invention: Pinnacle Positioner (PP): A Clinical Advanced Innovation

Address Of Service: DR PRAJWAL PRABHU Address: SENIOR LECTURER, DEPARTMENT OF ORTHODONTICS AND DENTOFACIAL DAYANANDA SAGAR COLLEGE OF DENTAL SCIENCES, BENGALURU

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FORM I THE PATENTS ACT 1970 (39 OF 1970) & THE PATENTS RULES, 2003 APPLICATION FOR GRANT OF PATENT <i>[See sections 7,54 & 135 and rule 20 (1) of rule 20]</i>				(FOR OFFICE USE ONLY)	
				Application No.:	
				Filing Date:	
				Amount of Fee paid:	
				CBR No:	
				Signature:	
1. APPLICANT'S REFERENCE / IDENTIFICATION NO. (AS ALLOTTED BY OFFICE)					
2. TYPE OF APPLICATION [Please tick (✓) at the appropriate category]					
Ordinary (✓)		Convention ()		PCT-NP ()	
Divisional ()	Patent of Addition ()	Divisional ()	Patent of Addition ()	Divisional ()	Patent of Addition ()
3A. APPLICANT(S)					
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Prof. Dr. Shobha E.S.	Indian	India	House No.	Professor, Department of Oral and Maxillofacial Surgery, Dayananda Sagar College of Dental Sciences, Bangalore - 560078, Karnataka, India	
Dr. Vinod Rangan	Indian	India	House No.	Reader, Department of Oral and Maxillofacial Surgery, Dayananda Sagar College of Dental Sciences, Bangalore - 560078, Karnataka, India	
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File Form 18

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FORM 30 (NEW)

Renewal of Patent

Reply to Examination
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Fifth Schedule

Form History

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Declaration As To Inventorship -
Form 5

Application Number: 202341014334

Date of Filing: 03/03/2023

Title Of Invention: Micro - Implant Positioning Guide

Address Of Service: DR HEMANTH M Address: PRINCIPAL AND HEAD, DEPARTMENT OF ORTHODONTICS AND DENTOFACIAL ORTHODONTICS DAYANANDA SAGAR COLLEGE OF DENTAL SCIENCES, BENGALURU

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4	DR VEDAVATHI B	NP	PROFESSOR AND HEAD, DEPARTMENT OF CONSERVATIVE DENTISTRY AND ENDODONTICS DAYANANDA SAGAR COLLEGE OF DENTAL SCIENCES, BENGALURU
5	DR SUCHITRA M P	NP	SENIOR LECTURER, DEPARTMENT OF ORTHODONTICS AND DENTOFACIAL ORTHODONTICS DAYANANDA SAGAR COLLEGE OF DENTAL SCIENCES, BENGALURU
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10	DR PRASHANTH N T	NP	PROFESSOR, DEPARTMENT OF ORAL AND MAXILLOFACIAL SURGERY DAYANANDA SAGAR COLLEGE OF DENTAL SCIENCES, BENGALURU

Sl.No.	Inventor Name	Inventor Country	Inventor Nationality	Address
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3	DR ARAVIND M	India	India	PROFESSOR, DEPARTMENT OF ORTHODONTICS AND DENTOFACIAL ORTHODONTICS DAYANANDA SAGAR COLLEGE OF DENTAL SCIENCES, BENGALURU
4	DR VEDAVATHI B	India	India	PROFESSOR AND HEAD, DEPARTMENT OF CONSERVATIVE DENTISTRY AND ENDODONTICS DAYANANDA SAGAR COLLEGE OF DENTAL SCIENCES, BENGALURU
5	DR SUCHITRA M P	India	India	SENIOR LECTURER, DEPARTMENT OF ORTHODONTICS AND DENTOFACIAL ORTHODONTICS DAYANANDA SAGAR COLLEGE OF DENTAL SCIENCES, BENGALURU
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9	DR RAMNARAYAN B K	India	India	PROFESSOR AND INCHARGE HEAD, DEPARTMENT OF ORAL MEDICINE AND RADIOLOGY DAYANANDA SAGAR COLLEGE OF DENTAL SCIENCES, BENGALURU
10	DR PRASHANTH N T	India	India	PROFESSOR, DEPARTMENT OF ORAL AND MAXILLOFACIAL SURGERY DAYANANDA SAGAR COLLEGE OF DENTAL SCIENCES, BENGALURU

Add Additional Inventor (If any)

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APP.No.	Name	Address	Locality	Country	State	City	Nationality
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FORM 2

THE PATENTS ACT, 1970

[39 of 1970]

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THE PATENTS RULES, 2003

COMPLETE SPECIFICATION

[See section 10 and rule 13]

"A NEW CLASSIFICATION FOR TEMPOROMANDIBULAR DISORDERS BASED ON ALGOMETER READINGS"

Name of the Applicant(s)	Nationality	Address
Dr. Samiksha Gour	Indian	III Year MDS Postgraduate, Department of Oral and Maxillofacial Surgery, Dayananda Sagar College of Dental Sciences, Bangalore - 560078, Karnataka, India
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Prof. Dr. Shobha E.S.	Indian	Professor, Department of Oral and Maxillofacial Surgery, Dayananda Sagar College of Dental Sciences, Bangalore - 560078, Karnataka, India
Dr. Vinod Rangan	Indian	Reader, Department of Oral and Maxillofacial Surgery, Dayananda Sagar College of Dental Sciences, Bangalore - 560078, Karnataka, India
Dr. Neha V Nainoor	Indian	Consultant Oral and Maxillofacial Surgeon (Private Practice), #003, Shivashree Gardens-1 Apartm ents, 4th Cross, 1st Main Road, BEML 3rd Stage, Rajarajeshwari Nagar, Bangalore - 560098, Karnataka, India
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PREAMBLE OF THE DESCRIPTION

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

1

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**OFFICIAL JOURNAL
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निर्गमन सं. 28/2024
ISSUE NO. 28/2024

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दिनांक: 12/07/2024
DATE: 12/07/2024

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(12) PATENT APPLICATION PUBLICATION

(21) Application No. 202441051920 A

(19) INDIA

(22) Date of filing of Application : 07/07/2024

(43) Publication Date : 12/07/2024

(54) Title of the invention : A NEW CLASSIFICATION FOR TEMPOROMANDIBULAR DISORDERS BASED ON ALGOMETER READINGS

(51) International classification : A61B0005000000, G16H0010200000,
A61P0025240000, C07D0487040000,
A61K0031415000
(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

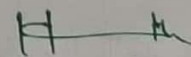
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(57) Abstract :
Temporomandibular joint disorder (TMDs) pain intensity has mostly been a subjective study of pain experienced by the patients. There are studies evaluating pain perception in TMD patients but limited literature is present quantifying the pain perception. It has been proposed that TMD may be a part of generalized pain condition. There is a need for a study investigating the general pain perception in TMD patients order to understand the underlying mechanism of TMD. The readings determined by algometer gives valuable proposition to adjust the dosage of analgesics before any treatment is initiated and also if any behavioural / psychosocial therapy needs to be provided. An algometer is used to measure the general pain pressure threshold (GPPT) at hypothenar region of healthy individuals and TMD patients three times. Mean T score was considered the GPPT of the subject. Upon analysis higher mean T score was recorded in healthy subjects compared to TMD subjects and the difference between them was found to be statistically significant ($P < 0.001$). The mean T score was higher in males compared to females but the difference between them was not statistically significant ($P > 0.05$). Temporomandibular disorders (TMD) tend to exhibit a lower pain threshold compared to those without the condition. This paper aids in providing a framework for classification of TMD on the basis of readings of pain pressure threshold on algometer. The classification aims at categorizing the treatment modality for TMD based on the reading considering if any behavioural / psychosocial therapy needs to be provided.

No. of Pages : 10 No. of Claims : 5

The Patent Office Journal No. 28/2024 Dated 12/07/2024

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Certificate of Registration of Design

Design No.

419760-001

Date

12/06/2024

Reciprocity Date*

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उत्ताप नी अंडिय

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Application Details

APPLICATION NUMBER	202341035353
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	22/05/2023
APPLICANT NAME	1 . Dr. Pradeep Chandra K 2 . Dr. Mir Shahid Ulla 3 . Dr. Sarandha D.L. 4 . Dr. Smitha Sharan 5 . Dr. Sreeharsha T.V. 6 . Dr. Brunda K 7 . Dr. C.M. Zameer Ahmed 8 . Dr. Shelvi Pandey 9 . Dr. Monika N 10 . Dr. Sujana S 11 . Dr. Syeda Noor Ayesha N 12 . Dr. Diksha
TITLE OF INVENTION	NOVEL-MINIATURE DIGITAL GAUGE FOR ANALYSING DENTOFORCE
FIELD OF INVENTION	PHYSICS
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ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	01/09/2023

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(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341035353 A

(19) INDIA

(22) Date of filing of Application :22/05/2023

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(54) Title of the invention : NOVEL-MINIATURE DIGITAL GAUGE FOR ANALYSING DENTOFORCE

(51) International classification :G01L0005000000, G01L0025000000, A61B0005000000, G01N0021470000, A01K0097120000
(86) International Application No :PCT//
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(61) Patent of Addition to Application Number :NA
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(62) Divisional to Application Number :NA
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(57) Abstract :
NOVEL-MINIATURE DIGITAL GAUGE FOR ANALYSING DENTOFORCE A method for this paper presents the design and development of a low cost and reliable maximal voluntary bite force measurement device which can be manufactured in-house by using an Arduino Nano and flexi force sensor with chief advantage of it being portable which can be delivered to the patient, store the readings in the SD card as well as OTA display of forces. The device has been designed for ease of fabrication, assembly, calibration, and safe use. The device is capable of use within an hour of commencing production, allowing for rapid prototyping/ modifications and practical implementation. The measured data shows a good linear relationship between the applied force and the electrical resistance of the sensor. The output signal has low drift, excellent repeatability, and a large measurable range of 0 to 800 N. A high signal-to-noise response to human bite forces was observed, indicating the high potential of the proposed sensor for human bite force measurement.

No. of Pages : 11 No. of Claims : 1

The Patent Office Journal No. 35/2023 Dated 01/09/2023

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निर्गमन सं. 35/2024
ISSUE NO. 35/2024

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दिनांक: 30/08/2024
DATE: 30/08/2024

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(12) PATENT APPLICATION PUBLICATION

(21) Application No. 202441063500 A

(19) INDIA

(22) Date of filing of Application : 22/08/2024

(43) Publication Date : 30/08/2024

(54) Title of the invention : A METHOD FOR TREATING PERIODONTITIS USING HERBAL TOPICAL GEL

(51) International classification : A61K36/55, A61K31/78, A61K9/06, A61P1/02, A61P31/04

(86) International Application No : NA

Filing Date : NA

(87) International Publication No : NA

(61) Patent of Addition to : NA

Application Number : NA

Filing Date : NA

(62) Divisional to Application : NA

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Filing Date : NA

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(57) Abstract :

Abstract The present invention discloses a method of treatment of periodontitis using a topical gel formulation of flax seed extract. The invention also discloses the composition and method of preparation of the topical gel formulation of flax seed extract, method of application of topical gel formulation of flax seed extract for the treatment of periodontitis and the anti-microbial and clinical efficacy of topical gel formulation of flax seed extract.

No. of Pages : 29 No. of Claims : 5

The Patent Office Journal No. 35/2024 Dated 30/08/2024

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Declaration As To Inventionship -
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Application Number: 202341014334

Date of Filing: 03/03/2023

Title Of Invention: Micro - Implant Positioning Guide

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FORM 30 (NEW)

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Fifth Schedule

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Declaration As To Inventionship :
Form 5

Application Number: 202341014335

Date of Filing: 03/03/2023

Title Of Invention: Pinnacle Positioner (PP): A Clinical Advanced Innovation

Address Of Service: DR PRAJWAL PRABHU Address: SENIOR LECTURER, DEPARTMENT OF ORTHODONTICS AND DENTOFACIAL DAYANANDA SAGAR COLLEGE OF DENTAL SCIENCES, BENGALURU

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TITLE OF THE CLINICAL INNOVATION- SWISS KNIFE WAS NOT USED FOR BONDING MORE

NAME OF THE PRESENTER: DR. ADAN A MANDATY & DR. CHANDNI KESHRI



Indian Orthodontic Society

PRESIDENT
Dr. JAYESH S RAHALKAR

HON SECRETARY
Dr. SANJAY LABH

Table Clinic

Reg No	Prize	Category	Name	College	Topic
752 0980	I	Innovation C TAB I 010	Dr. Meghna S (SLM12491) Dr. Sreejit Saha (SLM12662)	Krishnadevaraya College of Dental sciences	Effortless Orthodontics (Redefining Bonding Techniques)
868 944	II	Innovation C TAB I 011	Dr. Adil Mohamed Ashraf (SLM14417) Dr. Niha. M (SLM14461)	Yenepoya Dental College	Nasoal veolar Molding an Artificial Intelligence
1523 1528	III	Innovation C TAB I 018	Dr. Radhika Agarwal (SLM12556) Dr. Pulkit Sharma (SLM13312)	Rajasthan dental college and hospital	Revolutionizing orthodonti care and Future paradigm

Reg No	Prize	Category	Name	College	Topic
1996 1992	I	Innovation (C TAB I 031)	Dr. Adnan A Mandaty (SLM12733) Dr. Chandni Keshri (SLM12728)	Dayananda Sagar College of Dental Sciences	Swiss Knife In Orthodontics
1749 1966	II	Innovation C TAB I 045	Dr. Santhosh Ram Kumar M (SLM12231) Dr. M Harivadhani (SLM12059)	K.S.R. Institute of Dental Science and Research	Do It yourself- Guided Miniscrews
17339 1412	III	Innovation (C TAB I 051)	Dr. Rajkumar, P (SLM14151) Dr. Sanjai J (SLM13655)	Sri Venkateswara Dental College and Hospital Chennai	Gearax (Gear Activated Rapid Expander)

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TITLE OF THE CLINICAL INNOVATION- SWISS KNIFE IN ORTHODONTICS
NAME OF THE PRESENTER: DR. ADNAN A MANDATY & DR. CHANDNI KESHRI



Indian Orthodontic Society

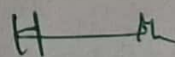
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1339 1412	III	Innovation (C TAB I 051)	Dr. Rajkumar.P (SLM14151) Dr. Sanjai J (SLM13655)	Sri Venkateswara Dental College and Hospital Chennai	Gearax (Gear Activated Rapid Expander)


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DAYANANDA SAGAR COLLEGE OF DENTAL SCIENCES

(Affiliated to Rajiv Gandhi University of Health Sciences, Karnataka)

(Recognized by Dental Council of India, New Delhi)

Accredited A+ Grade by NAAC

DSCDS/ARSC/IMF(Faculty)/2023-24/

This is to certify that the following innovation is being conducted in association with DERBI.

TITLE: DETERMINING DENTAL IMPLANT STABILITY QUOTIENT USING CONE BASED COMPUTERISED TOMOGRAPHY:

Name of the innovator :Dr.Anagha M D and Dr.Shobha

Date of submission: Jan 24,2024

Abstract:

- "Dental implant stability quotient" commonly referred to as ISQ could be determined using CBCT scans. In order to achieve this, we are going to be using a Machine Learning model in order to analyse the given CBCT datasets and train the model to provide a predicted result closest to the accurate value that would be most commonly be obtained using Resonance Frequency Analysis [RFA] technique which is found to be relatively more cumbersome and highly expensive when compared to our solution.
- The issue of the technique used through RFA technique is found to be not widely implemented due to the high costs associated with the devices involved with it. These devices include Ostell® Beacon and Penguin® instruments which are highly expensive which when paired with the accessories associated with it makes them highly unfeasible to use in common day to day clinical applications. This method also includes the added complications of inserting a probe into the implant which would increase the complexity and make it increasingly cumbersome.
- The solution developed by us would not only solve the problems associated with complexity and the higher cost, but it would also make it highly accessible to most doctors around the world and this solution could also be seamlessly integrated without the need of added equipment to the list generally rendering the solution almost free of cost.
- In order to achieve this, we would be using an ML model that would be trained by us with almost 450 datasets which would also result in this model being highly accurate*. The model assumes a Supervised Learning approach and a Support Vector Regressor [SVR] as the model.
- First off, the obtained Datasets* consisting of CBCTs will be "pre-processed". This process would begin with the encryption of the obtained patient data using SSH protocols which would generate unique SSH keys. This would ensure the 'complete anonymisation' of the obtained data sets by encoding their information.
- The obtained Datasets* (In the form of CSV files) would then be run through various pre-processing

algorithms in order to enhance their quality and facilitate accurate analysis before the data is to be fed into the model. This process includes converting the images to greyscale to generate a binary contrast gradient to facilitate easier attachment. Gaussian blur to remove any noise in the image and a contrast enhancing histogram to increase the contrast of the images.

- The model design comes up next. In order to achieve this, various libraries are used for various functionalities. The ones used are stated below.
 - 1) Numpy - for Numerical Operations.
 - 2) Pandas - for data handling
 - 3) Scikit learn - for image processing
 - 4) TensorFlow-for developing the Deep learning model
- The labelled CBCT Datasets* would then be loaded on from a CSV file and the features and labels would then be separated.
- The data would then be split into Training and testing sets. This would enable us to train the data from one subset and evaluate it using the other.
- We would then proceed to designing a Feedforward Neural Network using 'Keras' which would enable us to use libraries from TensorFlow which is a free and opensource library to develop Machine Learning models.
- The model being designed would have an input layer with 128 neurons and a ReLU Activation function. This would then be followed with a hidden layer with 64 neurons and another ReLU Activation function. The output layer would have only 1 neuron since it's a regression task.
- The model would then be compiled while specifying the optimiser. 'Adam' is the optimization algorithm being used here for deep learning. The loss function used here would be 'mean squared error' for regression tasks.
- The model would then be trained after this. The neural network is trained on the training data for 450 epochs with a batch size of 32. The 'validation_split' parameter would be specified to be 10% of the data sets to be used for validation during training.
- The model would then be evaluated to make predictions on the test set and evaluate its performance using Mean Squared Error and R-squared metrics.
- The model would then be interfaced with a user friendly UI to make it easier for seamless integration and make it more accessible to all the doctors around the globe for use in their clinical applications irrespective of their economic stature.
- In summary, this code uses a neural network to learn the mapping between CBCT features and dental implant stability quotient (ISQ). The training process involves feeding the model with labelled data, adjusting its parameters to minimize the prediction error, and then evaluating its performance on a separate test set. The trained model can then be used for making predictions on new, unseen data.
- In Summary,
 1. We reshape the input data to accommodate the CNN architecture.
 2. We load a pre-trained EfficientNetB0 model without the top layers.
 3. We build a custom model on top of the pre-trained base model, adding global average pooling and additional dense layers.
 4. We freeze the weights of the pre-trained layers to retain the knowledge learned from ImageNet.
 5. We compile the model using the Adam optimizer and mean squared error loss.
 6. We use early stopping and model checkpointing during training to prevent overfitting and save the best model.
 7. The model is trained on the reshaped training data.
 8. We evaluate the model on the reshaped test data and print the mean squared error and R-squared values.

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