




Dayananda Sagar College of Dental Sciences

Policy Document

Promotion of Advance Research Studies


PRINCIPAL
Dayananda Sagar College of Dental Sciences
Kumaraswamy Layout,
Bangalore - 560 073.



Dayananda Sagar College of Dental Sciences,
Shavige Malleshwara Hills, Kumaraswamy Layout, Bengaluru

POLICY DOCUMENT FOR ADVANCED RESEARCH STUDIES

Establishment of Policy for Promotion of Advanced Research:


Research is the foundation of knowledge that brings new energy, builds state of the art facilities, promotes research publications, develops collaborations and becomes part of active community that shares the mission objectives. Rapid growth in scientific knowledge is an indication of quest for discovery and has an impact on economic and societal development. Science, technology and innovation are often initiated at the University to create research environment and that is also the mission of Dayananda Sagar College of Dental sciences. Research and developmental activities creates and disseminates new knowledge in a range of fields, promotes innovation and these will motivate better learning and teaching among faculties and students of our institute.

Goal:

To promote research and research culture among faculty and students so that the research productivity of the various departments and institution as a whole is comprehensively enhanced.

Objectives:

1. To form sub-committees to shoulder the duties and responsibilities related to planning, organizing and Implementing specific research activities / schemes in the institution.
2. To empower the faculty and students in conducting and publishing quality research which can be beneficial to all the stakeholders of health research through conducting regular training programs (seminars, workshops, symposia) in the institution.
3. To enable the faculty and students in taking their research output in terms of quality and quantity to next higher level.
4. To promote 'funded research projects' in the institution which results in enhancement of scholarship in research.
5. To promote the faculty and students in getting patencies in their names for the innovations done by them in the institution and to provide required support system to that end.
6. To monitor the research of all the faculty and students in the institution.
7. To keep a constant tab and update the publications of all the departments.


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8. To guide and scrutinize the research proposal and research writing which is to be sent for publication and funding.

Policy on Promotion of Academic Research

A policy on academic research faculty to promote faculty involvement in research and developmental activities shall be prepared and implemented. This policy shall deal with the higher education and up skilling of faculty members in conducting and publishing research.

The policy will spell out measures to encourage the enrolment of faculty in Ph.D programmes. It shall also declare suitable incentives for Ph.D holders and other faculty who publish research articles in reputed journals.

Policy on Seed Money for Internal Research

1. Every faculty is eligible to apply for internal project which shall lead to collaborative / externally funded research projects.
2. The college shall provide the basic infrastructure required to conduct research projects.
3. Faculties are encouraged to identify inter-disciplinary research in their chosen field of research.
4. All innovative projects of faculty completed using the seed money would be earmarked for filing patents.
5. Recognition and remuneration will be given to those faculties who get patents.
6. The responsibility lies on the faculty members to take appropriate actions so that their innovations are covered by IPR and copyright protected.

Policy on Centre of Excellence

The college shall develop and nurture Centre for Excellence in the frontier areas of research which shall be open to faculty, students and industry persons to conduct research and engage in innovation. The faculty and students commitment to research is enhanced in order to attract funding from governmental / international agencies and also from industry in relevant sectors. Excellence in the research skills from any faculty and student in the institution would be honored with incentives and promotion.

Policy on Consultancy Projects

The college recognizes that consultancy is an effective way to disseminate knowledge. Hence it is seriously committed to make the expertise accessible and available the available to industry and society. The policy enables the researchers to take the research output to the end users by encouraging consultancies.

The college, as a socially responsible institution wants to make an early and direct impact on society through consultancy, whereas maintaining balance between consultancy and the

traditional role as a teacher. All Research and Non-research consultancies are governed by the established norms as described in the Policy on Consultancy Projects.

Policy on Innovations, Incubations and Entrepreneur Development

Innovation is given thrust in the institution. Students and faculty are encouraged to develop innovative frame of mind. In this regard institution has developed an MOU with the Derby Foundation, Bangalore. Few seminars and lectures were organised related to 'Patency procedural protocols'. Innovations happen when the problems are converted into ideas and, the ideas are further tested.

Creating research and innovation culture in the institution is a priority area and the 'Advanced Research Committee' is working on it. Innovation in research and development (R&D) can be a strategic weapon in which top institutions employ definable strategies and practices to catalyze high levels of organic growth, support above average margins and separate themselves from the competition.

Sustaining innovations: Are improvements that build on existing technology, products/ services, market strategy, etc. also referred to as "incremental" innovations.

Disruptive innovations: They are offerings, processes, methods, technologies, etc. that represent a major shift from everything

The college shall promote Innovations, Incubation, and Entrepreneurial Development among the teachers and students leading to development of innovative, commercially viable and socially relevant products / materials which shall lead to Patents and Copyrights.

Policy on Ethical Research

A separate policy and committee (IRB) is established to review and oversee the ethical issues of the research undertaken. Any research intended to be conducted should first obtain the approval from IRB (Institutional Review Board), without such an approval no research is permitted by the institution. The researcher/s should submit a proposal and that would be scrutinized for its scientific and ethical integrity by the IRB. There are internal and external members in the IRB who have the required expertise to scrutinize the proposal. The committee conducts meeting periodically for the same purpose and the researcher has to present the proposal in front of the committee.

Establishment of Intellectual Property Rights (IPR) Cell

Steps shall be taken to establish an Intellectual Property Right Cell to assist the researchers and inventors to get protected their inventions and intellectual properties. A separate cell shall be created with the assistance from Central and/or state government. In this connection our institution has conducted multiple CDE programs on IPR related topics. Experts in the area have catered to the intellectual needs of our researchers.

Constitution of the Advanced Research Committee

- Chairperson
- Co-chairpersons
- Member Secretary
- Members

Roles and Responsibilities of the Committee members:

Chairperson

- Responsible for ensuring that the committee members are effectively engaged in order to achieve the objectives of the committee.
- Responsible to make the most of all the committee members, building and leading the team.
- Responsible for giving approval for any activity under the committee.
- Provide general advice and guidance to the staff, committee members and researchers.
- Offer support, and mentorship as required to the co-chairpersons, secretary, assistant coordinators and the members.
- Develops agendas along with the secretary.
- Chair all committee meetings.
- Check and approve the Minutes in a timely manner.
- Has to apprise the Principal of the institution periodically about the activities of the committee and submit a written report annually.
- Responsible for assuming the lead reviewer role for the research synopsis submitted to the board.
- Will actively seek input from committee members during regularly scheduled meetings and conference calls.
- Will actively assign tasks to committee members that are tailored to the needs discussed.

Co-Chairpersons

- In absence of the chairperson, take his/her responsibilities.
- Assist the chairperson in all the duties as assigned by him/her.
- Organize scientific programs after consultation with the chairperson
- Providing updates on relevant and contemporary issues related to health research, as well as relevant contemporary literature to the committee

Member Secretary/Co-ordinator

- Organize the committee meetings regularly and ensure that they are conducted in an orderly and efficient manner.
- To prepare, in conjunction with the president, the agenda for the committee meetings.
- To ensure that all members are kept informed of dates, times and venues for meetings.
- To report all important correspondence received by the committee to the meeting.
- Arrangement of training for staff members along with the chair and co-chairs.
- Organizing an effective and efficient tracking procedure for each proposal received.
- Allocation of proposal (in consultation with the chairperson) for reviews to specific members to facilitate efficient dispensation of the projects.

Members:

- Work along with the secretary in all aspects
- Take minutes of meetings and provide it to the committee chair within ten working days of each meeting, for distribution to the entire committee within twenty working days.
- To maintain a register of all member attendance at meetings
- For online meetings, take a record of all those in attendance
- Maintain and report accounts to all the members regularly
- Receive and check for the completeness of the proposals sent for review
- Preparation, maintenance and distribution of proposals for review
- Collection and compilation of proposals after review
- Uploading proposals to relevant websites when required
- Prepare an "action item" calendar for the meetings which will consist of all of the deadlines for abstract submissions and research grants, and the evaluation and notification dates associated with them
- Take the lead in organizing scientific programs after consultation with the chairperson and secretary
- Providing updates on relevant and contemporary issues related to health research, as well as relevant contemporary literature to the committee.


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**Dayananda Sagar College of Dental Sciences,
Shavige Malleshwara Hills, Kumaraswamy Layout, Bengaluru**

SCDS/Internal/2018-19/

Date: 14/08/2018


OFFICE ORDER

COMMITTEE FOR ADVANCED RESEARCH STUDIES

Committee for Advanced Research Studies has been constituted to implement setting up of Centers for Learning and Excellence and to promote research culture among faculty and students at Dayananda Sagar College of Dental Sciences. Tenure of committee will be of One year.

The committee members are as follows:

Sl. No.	Name	Designation	Position
1	Dr. Hernanth M	Principal	Chairperson
2	Dr. Nagesh L	Prof & HOD - Public Health Dentistry	Member Secretary
3	Dr. Shobha ES	Prof & Head - OMFS	Member
4	Dr. Krishnanand PS	Prof & HOD - Oral Pathology	Member
5	Dr. Prashanth NT	Professor- Oral Medicine & Radiology	Member
6	Dr. Gargi S Murthy	Reader - Pedodontics	Member
7	Dr. Veena Pai S	Reader - Conservative Dentistry & Endodontics	Member
8	Dr. Mahesh DR	Reader - Oral Medicine & Radiology	Member
9	Dr. Sreeharsha TV	Reader - Prosthodontics	Member
10	Dr. Sharmada BK	Reader - Orthodontics	Member
11	Dr. Pallavi K	Senior Lecturer - Periodontics	Member
12	Dr. Jayaprasad Darsan	Senior Lecturer - Orthodontics	Member


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SCDS/Internal/2019-20/31

Date: 14/08/2019


OFFICE ORDER

COMMITTEE FOR ADVANCED RESEARCH STUDIES

Committee for Advanced Research Studies has been constituted to implement setting up of Centers for Learning and Excellence and to promote research culture among faculty and students at Dayananda Sagar College of Dental Sciences. Tenure of committee members will be of three years.

The committee members are as follows:

Sl. No.	Name	Designation	Position
1	Dr. Hemanth M	Principal	Chairperson
2	Dr. Nagesh L	Prof & HOD - Public Health Dentistry	Member Secretary
3	Dr. Shobha ES	Prof & Head - OMFS	Member
4	Dr. Krishnanand PS	Prof & HOD - Oral Pathology	Member
5	Dr. Prashanth NT	Associate Professor- Oral Surgery	Member
6	Dr. Gargi S Murthy	Reader - Pedodontics	Member
7	Dr. Veena Pai S	Reader - Conservative Dentistry & Endodontics	Member
8	Dr. Mahesh DR	Reader - Oral Medicine & Radiology	Member
9	Dr. Sreeharsha TV	Reader - Prosthodontics	Member
10	Dr. Sharmada BK	Reader - Orthodontics	Member
11	Dr. Pallavi K	Senior Lecturer - Periodontics	Member
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DS/DS/Internal/2022/ 33

Date: 16/08/2022

OFFICE ORDER

COMMITTEE FOR ADVANCED RESEARCH STUDIES

Committee for Advanced Research Studies has been reconstituted to implement setting up of Centers for Learning and Excellence and to promote research culture among faculty and students at Dayananda Sagar College of Dental Sciences. The committee shall also look into Research Funding Avenues for Faculty and Student Research and shall also monitor Faculty and Student Publication and Publications. Tenure of committee will be of three years.

The committee members are as follows:

Sl. No.	Name	Designation	Position
1	Dr. Hemanth M	Principal	Chairperson
2	Dr. Nagesh L	Professor Emeritus – Research Head	Co-Chairperson
3	Dr. Shobha ES	Prof & Head – Oral Surgery	Member
4	Dr. Avinash J	Prof & HOD – Public Health Dentistry	Member
5	Dr. Krishnanand PS	Prof & HOD – Oral Pathology	Member
6	Dr. Prashanth NT	Professor- Oral Surgery	Member
7	Dr. Gargi S Murthy	Reader - Pedodontics	Member
8	Dr. Veena Pai S	Reader - Conservative Dentistry & Endodontics	Member
9	Dr. Mahesh DR	Reader – Oral Medicine & Radiology	Member Secretary
10	Dr. Sreeharsha TV	Reader - Prosthodontics	Member
11	Dr. Afshan Saman Waremani	Reader - Orthodontics	Member
12	Dr. Koduru Sravani	Senior Lecturer - Periodontics	Member
13	Dr. Ambili C	Senior Lecturer – Conservative Dentistry	Member
14	Ms. Shilpa K	Asst. Professor – Microbiology	Member
15	Ms. Ashitha Mariam Leslie	Lecturer – Pharmacology	Member

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DAYANANDA SAGAR COLLEGE OF DENTAL SCIENCES

(Affiliated to Rajiv Gandhi University of Health Sciences, Karnataka)
(Recognised by Dental Council of India, New Delhi)



MEMORANDUM OF UNDERSTANDING (MoU)

of Usage of Incubation Centre

BETWEEN

DERBI FOUNDATION, BENGALURU

AND

DAYANANDA SAGAR COLLEGE OF DENTAL SCIENCES, BENGALURU

Dr. LAKSHMI JAGANNATHAN
CEO
DERBI Foundation, Bengaluru

Prof. Dr.Hemanth M MDS, Ph.D
Principal
Dayananda Sagar College of Dental Sciences, Bangalore

As on **18/10/2021**

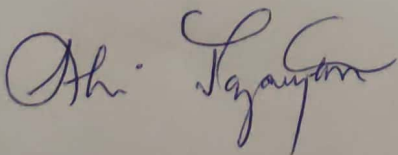
Introduction and Background:

DERBI Foundation is not for profit section 8 company, a healthtech focused technology business hosted by the Dayananda Sagar Institutions and is recognized and supported by Department of Science & technology, Ministry of Electronics & IT and Invest India from Government of India and Karnataka Innovation Society, Government of Karnataka. It supports healthcare startups across their business cycle, viz, from idea to commercialization through mentoring, go- to market strategies, pilot trials, prototyping support and grants and seed fund.

The Dayananda Sagar College of Dental Sciences is a part of the Dayananda Sagar Institutions located at Campus - 1, Kumaraswamy Layout Bangalore was begun in 1991 as an Institution that caters to all the Oral Health Care needs of patients and provides training to Under Graduate, Post-Graduate and Ph. D students and functions under the aegis of the prestigious Rajiv Gandhi University of Health Sciences, Bangalore, Karnataka. There are 9 sub-specialties of Dentistry out of which Post Graduation is being held at 7 specialties.

Now, in accordance to the mutual desire to promote and develop activities between two Institutions, namely DERBI Foundation and the Dayananda Sagar College of Dental Sciences and Hospital, we agree to the following statement of intent on technology and Research based educational training programme for the faculty and students in using the incubation Centre. This cooperation in specific areas may be designed by mutual consent and incorporated into specific additional agreements upon signature by the appropriate authorities of both the institutions.

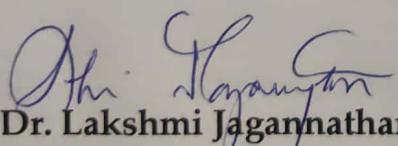
1. The two said institutions agree to the following general areas of interest and cooperation:
 - a. Sharing technical infrastructure with regard to using the Incubation centre and R & D facilities at DERBI Foundation, Bengaluru.
 - b. Sharing of Intellectual expertise for skill oriented training of Faculty, under Graduate and postgraduate Students






- c. Sharing of knowledge and promotion of skill based training in the field of Research and Development for the benefit of Post Graduate Students as well as per the existing University requirements.
 - d. Joint promotion of each other's' expertise and capabilities
 - e. Supporting innovators and startups in idea validation, pilot testing and clinical trials
2. The institution using the facility for training students at the Incubation Centre agree to pay the financial agreements necessary to implement this MoU or any subsequent agreement must be negotiated according to the regulation of the institution providing the facility.
 3. **Both the Institutions recognize that:**
 - a. This MoU establishes a foundation of mutual understanding and interest and does not itself entail any financial obligations for either institutions.
 - b. This MoU will take effect from the date of its signing and shall be valid immediately.

This MoU is being signed on **18/10/2021** and will stand effective from this date onwards.


Dr. Lakshmi Jagannathan
CEO

DERBI Foundation,
Bengaluru


Prof. Dr. Hemanth M MDS, Ph.D

Principal

Dayananda Sagar College of Dental
Sciences, Bengaluru

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INTELLECTUAL
PROPERTY INDIA
PATENTS | DESIGNS | TRADEMARKS
GEOGRAPHICAL INDICATIONS



सत्यमेव जयते

GOVERNMENT OF INDIA
THE PATENT OFFICE
PATENT
(RULE-74)

A-CH/0951

No. 198667 of 21.11.2002 20

WHEREAS NATESH KARE SUBHARAJA GUPTA & KASETTY SEETHARAMAYAH SATHYANARAYANASETTY
NO. 168, PHASE II, KAMALAPURI COLONY, SRINAGAR COLONY, HYDERABAD
500 073, A. P.
BOTH ARE INDIAN CITIZENS

has/have declared that he is/they are in possession of an invention for A process of using carbomer as a
drug carrier to the harder tissues of the oral cavity

and that he is /they are the true and first inventor(s) thereof (or the legal representative(s) or assignee(s) of the true and
the first inventor) and that he is/they are entitled to a patent for the said invention, having regard to the provisions of the
Patents Act, 1970, as amended and that there is no objection to the grant of a patent to him/them;

And whereas he has/they have by an application, requested that a patent may be granted to him/them for the said
invention;

And whereas he has /they have by and in his complete specification particularly described the said invention and the
manner in which the same is to be performed;

Now, these present(s) that the above-said applicant(s) (including his/their legal representative(s) and assignee(s) or any of
them) shall, subject to the provisions of the Patents Act, 1970, as amended and the conditions specified in Section 47 of the said
Act, and to the conditions and provisions specified by any other law for the time being in force, have the exclusive right to
prevent third parties from making, using, offering for sale, selling or importing for those purposes
the

XXXXX

XXXXX

and using the A process of using carbomer
as a drug carrier to the harder etc., and using, offering for sale, selling or importing for those
purposes the product obtained if any, directly by that process in India, provided that the product obtained if any is not a product
in respect of which no patent shall be granted under this Act for a term of twenty years from the Twenty first day
of November 2002 and of authorizing any other person to do so, subject to the conditions that the validity of
this patent is not guaranteed and that the fee prescribed for the continuance of this patent are duly paid.

In witness thereof, the Controller has caused this patent to be granted as of the Twenty seventh day of January.
20.06

Controller of Patents

Grant Date of Sealing 27-01-2006 / 07th Magha 1927 (Saka)

Note: The fees for renewal of this patent, if it is to be maintained, will fall due on Twenty first day of
November 20.06, and on the same day in every year thereafter.

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Vaatsalya Inventures

Consultancy Solutions LLP.

Project Initiation Contract

Invention Details:

Invention Name	VIBRADONT
Inventor/s Name	DR. JAYANTH N. RAVI
Signature/s and date	 22/12/2017

Points to be noted:

1. Initiation contract amount includes fees for
 - a) Confidentiality Report
 - b) Patent search
2. Report will be ready in approx. One month
3. Based on report, upon Inventor/s confirmation, further process will be continued.
4. Project Initiation amount Rs. 10,000/- including taxes
5. Any/All amount once paid is Non-refundable

Bank account details:

Account Name	Vaatsalya Inventures
Account Number	1927201010532
Bank	Canara Bank
Branch	Bangalore Industrial Finance 001927
IFSC code	CNRB0001927
MICR code	560015088

www.vinvent.in

Registered Company Office at

#215/802, 7th B cross, Shastry Nagar, Thyagaraja Nagar P.O., Bangalore - 560028.
+91 9916091999, 080 26762192 e-mail: enquiry@vinvent.in


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Bangalore - 560028

CONFIDENTIALITY AND NON-DISCLOSURE AGREEMENT

This Agreement is made on 21st December 2017 (Effective Date) by and between, **Dr. Jayanthi N. Ravi**, having his residence at 'Sri Raaga', #24A/25, 4th cross, Swagath Layout, Vidyanarayapura, Bengaluru - 560097, hereinafter referred to as the "Discloser" and, **Vaatsalya Inventures LLP**, having their office registered office at #215/802, 7th B cross, Shastry Nagar, Thyagaraja Nagar P.O., Bangalore - 560028, hereinafter referred to as the "Recipient".

RECITALS

The Discloser intends to have his invention namely "Vibradont" examined, improvised, patented and manufactured; and for this purpose the Discloser has accepted the Recipient as a suitable entity to provide him/her/them the necessary information and facilities for furtherance of project. For the same purpose, the parties wish to ensure the confidential nature and treatment of this information.

For good and valuable consideration hereby acknowledged, Discloser and Recipient agree as follows:

1. In order to assess the device and the project, the Discloser would disclose to the Recipient certain confidential information for the sole purpose of patent, improvisation and manufacturing which shall mean all commercial, valuable, proprietary, confidential information and secrets with respect to the Discloser's patent ideas, work, application whether of a technical, business or other nature (including, without limitation, research, compilations, techniques, ideas, samples, algorithms, development efforts, inventions, processes, designs, drawings, know-how, future plans, promotional and marketing activities, finances and other affairs of patent work) that is disclosed to the Recipient or is otherwise learned by the Recipient in the course of its discussions or dealings with, or its physical or other access to the patent work that has been identified as being proprietary and/or confidential or that by the nature of the circumstances


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surrounding the disclosure or receipt ought to be treated as proprietary and confidential.

2. The Recipient agrees not to use the Confidential Information of the Discloser for any other purpose other than for project purpose/s only.
3. Both Discloser and Recipient agree that the relationship created under this agreement is confidential and it will hold the Confidential Information in confidence and will not disclose the same to any third party, and will limit disclosure of Confidential Information.
4. The provisions of this Agreement shall not apply to any Confidential Information which:
 - a. the Recipient can establish by competent documentation that was known to it without restriction prior to disclosure by the Discloser as independently obtained by the Recipient without reference to the Confidential Information; or,
 - b. is now or hereafter comes into the public domain through no fault of the Recipient;
 - c. if a subpoena or other legal process in any way concerning Confidential Information is served upon the Recipient, the Recipient shall notify the Discloser, shall cooperate with the Discloser, in any lawful effort to contest the validity of such subpoena or other legal process;
 - d. is required by operation of law to be disclosed, however, that the Discloser is given reasonable advance notice of the intended disclosure and reasonable opportunity to challenge such legal requirement(s).
5. This Agreement shall be effective as of the date set forth above and the term shall extend until the specified patented work comes into public domain or the same is withdrawn by the Discloser or rejected by Patents Office.
6. As part of this Agreement, the Recipient shall hold the Discloser's information and all other information disclosed to it in trust and strict confidence, and shall protect the confidentiality of the same. The Recipient shall neither disclose any of the Discloser's information nor participate in any direct or indirect business with any third party. Any business with any of the third party shall always be represented through the Discloser only.
7. This information also comes under the Confidentiality Agreement unless there is unforeseen dispute between the Discloser and the Recipient.
8. The validity, terms, performance and enforcement of this Agreement shall be governed and construed by its provisions and in accordance with the laws of India with due regard to its rules regarding conflicts of law.

9. Should any provision of this Agreement be deemed illegal or otherwise unenforceable, that provision shall be severed and the remainder of this Agreement shall remain in full force and effect. The waiver of any right or election of any remedy in one instance, by either party, shall not affect any rights or remedies in another instance. A waiver shall be effective only if made in writing and signed by an authorized representative of both parties.
10. The parties acknowledge and agree that monetary damages will not be an adequate remedy for any breach of this Agreement, and agree that any party shall be entitled to specific performance and injunctive relief to enforce this Agreement. Such remedies shall be cumulative with any other remedies otherwise available.
11. The Recipient shall not retain any copies of the confidential information and shall return all copies of confidential information on request by the Discloser.
12. The signatories hereto warrant and represent that they are authorized to bind themselves respectively, and to execute this Agreement.
13. Mutual trust, understanding and co-operation is the soul of this Agreement and resolution of any misunderstanding, disputes between the two parties shall be made by mutual discussion and understanding before resorting to any other remedy permitted under the terms of this Agreement.

IN WITNESS WHEREOF, the parties have executed this Agreement as of the date set forth above.

Discloser:

By



Name: DR. JAYANTH N. RAVI

Recipient:

By



Name: Vasunthara J.S.

For, Vaatsalya Inventures I.L.P.

Date: 21/12/2017

Place: Bangalore


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INVENTION DISCLOSURE FORM

1. **Title Of The Invention:**

VIBRADONT – A new accelerated orthodontic device

2. **Problem Solved by the Invention:** Describe the unmet need/problems in the current solutions and the problem that this invention solves.

Vibradont accelerates tooth movement in patients undergoing orthodontic treatment, thereby effectively reducing treatment time. It is also believed that these vibrations are helpful in reducing the Orthodontic Induced Root Resorption

3. **How have others solved this problem:**

By having fabricated and marketed a similar appliance, which currently, does not exist in India.

4. **Brief Description of the Invention:** Describe the invention in general terms: What does it do? How does it do it?

Vibradont is a device, which delivers mechanical vibrations to the tooth, fastening tooth movement.


5. **Detailed Description of the Invention:** Describe each component of your invention and describe how the components work together to make the invention work. Also explain in detail the new or novels aspects of your invention.

It uses a small vibrating component, which is embedded in the mouthpiece, that'd be placed outside the patient's mouth; and a main component/circuit part along with a rechargeable Li-ion 3.7V battery, placed away from the patient, in the pocket, clipped to the sleeve of the shirt, etc.

(like a portable mp3 player, except, it would be delivering vibrations instead of music)

6. **Describe how your invention is better or different compared to solutions from others?**

a. Design of the appliance is the main strong point; given that the appliance is not a menace to carry around, ergonomic and comfortable, safe and rechargeable, portability, convenience and most importantly – economic and affordable.


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b. Studies need to be undertaken in order to prevent relapse. Could aid in a more patient friendly retainer system.

7. **Diagrams:** Provide figures showing all the components of your invention.

8. **Embodiments:** Provide structural alternatives if any. That is, in what ways could the parts (steps) be changed or equivalent parts substituted without changing the basic invention?

- Bettering the material used for the mouthpiece
- Light LED indicators to indicate different activities/ mode function
- Timing device/ display feature/ auto off feature

Literature or Prior Arts: Provide any related patent information and available literature related to the invention, such as design documents, product specifications, web links, technical papers, marketing brochures, etc.

- a. The effect of mechanical vibration on orthodontically induced root resorption; Angle Orthod. 2016;86:740–745; Sumit Yadava; Thomas Dobiieb; Amir Assefniac; Zana Kalajzicd; Ravindra Nandae
- b. Cyclic loading (vibration) accelerates tooth movement in orthodontic patients: A double-blind, randomized controlled trial; Semin Orthod 2015; 21:187–194; Dubravko Pavlin, Ravikumar Anthony, Vishnu Raj, and Peter T. Gakunga
- c. [www.propelorthodontics.com/Vibropro/Propel VPro 5](http://www.propelorthodontics.com/Vibropro/PropelVPro5)
- d. www.acceledent.com

FORM 2
THE PATENT ACT 1970 &
The Patents Rules, 2003
COMPLETE SPECIFICATION
(See section 10 and rule 13)
Indian Patent office. /Delhi/ Mumbai/ Chennai/ Kolkata

TITLE OF THE INVENTION:

Title: Advanced Micro Implant Positioning Process.

Name	Nationality	Address
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ABSTRACT

[500] Our Invention "Advanced Micro Implant Positioning Process" is a orthodontic maxillary miniature embed incorporates a plate and a restorative embellishment. The plate is embedded into the keratinized epidermal tissue in the maxilla of the orthodontic patient's oral hole. First and second locking components are gone through first and second locking openings arranged at the two finishes of the plate individually to tie down the plate to the maxilla, lastly a third locking component is joined through a fourth locking opening arranged on the remedial extra and a third locking opening arranged on the plate to tie down the restorative accomplice to the maxilla. The orthodontic maxillary miniature embed beats the trouble of tongue activity and decreased oral cleanliness support brought about by the enormous surface region that an ordinary maxillary gadget possesses. With the utilization of orthodontic wires, the orthodontic maxillary miniature embed turns into an orthodontic frill permitting the patient's teeth to be gone in reverse, pulled forward, pushed sideways or withdrew. A patient who was wanting to have orthodontic scaled down embed treatment on the back maxilla was selected to survey the possibility of utilizing CBCT pictures in and-embed situating guide program. Procurement cuts for the back maxilla were 0.1501 mm in all-encompassing method of PSR 9000N model (Asahi Roentgen, Kyoto, Japan). The careful aide for the small embed was created from the shipped CBCT information. The finished careful aide was handily positioned intra-orally and allowed basic and quick situation of the smaller than expected embed. The site of the embed situation was exact, while the vector changed marginally from the arranged vector.

FIELD OF THE INVENTION

[501] Our Invention is related to an Advanced Micro Implant Positioning Process.

BACKGROUND OF THE INVENTION

[502] Ideal situating of orthodontic smaller than expected inserts is fundamental for a fruitful treatment with skeletal jetty. This study plans to look at the precision of two-layered radiographs with a cone bar registered tomography (CBCT) for scaled down embed position.

[503] An optimal site for smaller than expected embed situation at the buccal interradicular space between the subsequent premolar and the principal not entirely settled for 40 destinations (in 13 patients matured 14 to 28 years) by utilizing CBCT information.

[504] the smaller than normal embed position methodology was then isolated into two gatherings. In CBCT bunch, smaller than expected inserts were set at not entirely set in stone from CBCT information.

[505] In RVG bunch, scaled down inserts were put with the assistance of two-layered computerized radiographs and a specially crafted guide. Postplacement CBCT filters

ordinary maxillary gadget possesses. With the utilization of orthodontic wires, the orthodontic maxillary miniature embed turns into an orthodontic frill permitting the patient's teeth to be gone in reverse, pulled forward, pushed sideways or withdrew.

4. The other objective of the invention is to provide a patient who was wanting to have orthodontic scaled down embed treatment on the back maxilla was selected to survey the possibility of utilizing CBCT pictures in and-embed situating guide program. Procurement cuts for the back maxilla were 0.1501 mm in all-encompassing method of PSR 9000N model (Asahi Roentgen, Kyoto, Japan).
5. The other objective of the invention is to provide a careful aide for the small embed was created from the shipped CBCT information. The finished careful aide was handily positioned intra-orally and allowed basic and quick situation of the smaller than expected embed. The site of the embed situation was exact, while the vector changed marginally from the arranged vector.

SUMMARY OF THE INVENTION

[511] The motivation behind this creation is to give a sort of orthodontic maxillary miniature embed, utilizing a plate and a restorative assistant to do orthodontics and re-arrangement of the maxillary teeth and maxilla in the oral depression where the plate is introduced inside the keratinized epidermal tissue of the orthodontic patient's maxilla.

[512] A first locking component and a second locking component join the plate to the maxilla, and a third locking component passes into the highest point of the remedial extra of the fourth fixed locking opening and the third fixed locking opening, which is between the principal fixed locking opening and second fixed locking opening arranged on the highest point of the plate, consequently accomplishing the motivation behind immovably locking the restorative assistant to the plate.

[513] this creation to give a sort of orthodontic maxillary miniature embed, is using the plate and the remedial assistant to realign the maxillary teeth of the orthodontic patients oral pit, empowering it to work unobstructed no matter what a tooth's development or situation point, and this innovation gives a decent grip technique as it joins to the hard cortical bone of the maxilla, and not a bond strategy depending on the teeth to stand firm on the plate in situation.

BRIEF DESCRIPTION OF THE DIAGRAM

Fig.1: Advanced Micro Implant Positioning Process Flow.

Fig.2: Advanced Micro Implant Positioning Process Status.

Fig.3: Advanced Micro Implant Positioning Process.

DESCRIPTION OF THE INVENTION

[514] a plate, having a first locking opening and a subsequent locking opening arranged at furthest edges of the plate separately and entering through the plate, and a third locking opening arranged between the primary locking opening and the subsequent locking opening.

were acquired to decide the exactness of the little embed arrangement. The outcomes were genuinely examined with a Mann-Whitney test.

PRIOR ART SEARCH

[506] KR100918966B1: The present invention relates to an orthodontic appliance used in orthodontics of the dentistry, having an excellent bone quality and a thin palatal thickness of the palatal that is, fixing the implantation part using a fixed source on the palate site, both sides By engaging the buccal part and pulling the anterior tooth to the rear to correct it, the tooth movement of the posterior part is allowed and repositioning of the fixed source is unnecessary.

[507] It is very easy to apply force (correction force), and it naturally leads to the expansion of dental arch (orthodontic arch), and it can significantly reduce the possibility of tooth extraction by moving the dental brace to the rear. It would be.

[508] KR200464089Y1: The present invention strengthens the palatal fixation source in the palatal bone area that can exert the maximum fixation power during orthodontic treatment, while providing uniform corrective force for the left and right dentition. Accordingly, to provide a palatal fixation source to effectively solve the difficulties experienced by the operator and the patient in the orthodontic treatment process.

[509] To this end, the present invention, the base member 110 which can be fixed to the palate by the implantation nail during orthodontic treatment for orthodontic treatment, and the hook portion 120 is formed to extend to both sides of the base member 110, respectively.

[510] A palatal orthodontic palatal fixed source comprising a, one side of the hook portion 120, when the base member 110 is settled in a position eccentrically left or right with respect to the palatal midline, palatal midline It provides a palatal orthodontic palatal fixed source extending the length of one side hook portion to balance the left and right traction force applied to the ends of both hook portion 120 as a reference.

OBJECTIVES OF THE INVENTION

1. The objective of the invention is to provide a "Advanced Micro Implant Positioning Process" is a orthodontic maxillary miniature embed incorporates a plate and a restorative embellishment. The plate is embedded into the keratinized epidermal tissue in the maxilla of the orthodontic patient's oral hole.
2. The other objective of the invention is to provide a First and second locking components are gone through first and second locking openings arranged at the two finishes of the plate individually to tie down the plate to the maxilla, lastly a third locking component is joined through a fourth locking opening arranged on the remedial extra and a third locking opening arranged on the plate to tie down the restorative accomplice to the maxilla.
3. The other objective of the invention is to provide a orthodontic maxillary miniature embed beats the trouble of tongue activity and decreased oral cleanliness support brought about by the enormous surface region that an

[515] A restorative frill, having a fundamental body, a fourth locking opening arranged at a focal situation on the principal body, and a first depression and a subsequent score shaped on the fundamental body for obliging something like one orthodontic wire

[516] A measurably tremendous contrast (p value=0.02) was seen between the two gatherings for deviation from an optimal level of situation of the smaller than usual inserts. Deviations in Mesiodistal situating and precise deviation showed a genuinely non-massive contrast.

[517] Three out of twenty smaller than expected inserts in the RVG bunch showed root contact in the mandibular curve that might be ascribed to the smaller interradicular space and diminished openness in the mandibular back district.

[518] Despite the fact that CBCT gives an exact three-layered representation of the interradicular space, the two-layered intraoral radiograph of the interradicular region gives adequate data to smaller than usual embed position.

[519] Taking into account how much radiation openness and cost with the two procedures, involving two-layered radiographs with a careful aide for a standard smaller than expected embed placement is suggested.

[520] A postplacement CBCT exhibited exact situation of the small embed on the left and a minor error between the reenacted little embed position and clinical situation on the right. Enhancements in the CBCT goal and laser-examining innovation are probably going to wipe out any disparities.

WE CLAIMS

- 1) Our Invention "Advanced Micro Implant Positioning Process" is a orthodontic maxillary miniature embed incorporates a plate and a restorative embellishment. The plate is embedded into the keratinized epidermal tissue in the maxilla of the orthodontic patient's oral hole. First and second locking components are gone through first and second locking openings arranged at the two finishes of the plate individually to tie down the plate to the maxilla, lastly a third locking component is joined through a fourth locking opening arranged on the remedial extra and a third locking opening arranged on the plate to tie down the restorative accomplice to the maxilla. The orthodontic maxillary miniature embed beats the trouble of tongue activity and decreased oral cleanliness support brought about by the enormous surface region that an ordinary maxillary gadget possesses. With the utilization of orthodontic wires, the orthodontic maxillary miniature embed turns into an orthodontic frill permitting the patient's teeth to be gone in reverse, pulled forward, pushed sideways or withdrew. A patient who was wanting to have orthodontic scaled down embed treatment on the back maxilla was selected to survey the possibility of utilizing CBCT pictures in and-embed situating guide


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program. Procurement cuts for the back maxilla were 0.1501 mm in all-encompassing method of PSR 9000N model (Asahi Roentgen, Kyoto, Japan). The careful aide for the small embed was created from the shipped CBCT information. The finished careful aide was handily positioned intra-orally and allowed basic and quick situation of the smaller than expected embed. The site of the embed situation was exact, while the vector changed marginally from the arranged vector.

- 2) According to claim 1# the invention is to a "Advanced Micro Implant Positioning Process" is a orthodontic maxillary miniature embed incorporates a plate and a restorative embellishment. The plate is embedded into the keratinized epidermal tissue in the maxilla of the orthodontic patient's oral hole.
- 3) According to claim 1,2# the invention is to a First and second locking components are gone through first and second locking openings arranged at the two finishes of the plate individually to tie down the plate to the maxilla, lastly a third locking component is joined through a fourth locking opening arranged on the remedial extra and a third locking opening arranged on the plate to tie down the restorative accomplice to the maxilla.
- 4) According to claim 1,2,3# the invention is to a orthodontic maxillary miniature embed beats the trouble of tongue activity and decreased oral cleanliness support brought about by the enormous surface region that an ordinary maxillary gadget possesses. With the utilization of orthodontic wires, the orthodontic maxillary miniature embed turns into an orthodontic frill permitting the patient's teeth to be gone in reverse, pulled forward, pushed sideways or withdrew.
- 5) According to claim 1,2,3# the invention is to a patient who was wanting to have orthodontic scaled down embed treatment on the back maxilla was selected to survey the possibility of utilizing CBCT pictures in and-embed situating guide program. Procurement cuts for the back maxilla were 0.1501 mm in all-encompassing method of PSR 9000N model (Asahi Roentgen, Kyoto, Japan).
- 6) According to claim 1,2,3,4# the invention is to a careful aide for the small embed was created from the shipped CBCT information. The finished careful aide was handily positioned intra-orally and allowed basic and quick situation of the smaller than expected embed. The site of the embed situation was exact, while the vector changed marginally from the arranged vector.

FORM 2
THE PATENT ACT 1970 &
The Patents Rules, 2003
COMPLETE SPECIFICATION
(See section 10 and rule 13)
Indian Patent office. /Delhi/ Mumbai/ Chennai/ Kolkata

TITLE OF THE INVENTION:

IN-30-31: Pinnacle Positioner (PP): A Clinica Advanced Innovation

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ABSTRACT

[500] Our Invention “Pinnacle Positioner (PP): A Clinical Advanced Innovation” is a dental splint is an appliance designed for the immobilization or stabilization of loose/mobile teeth. Splinting provides rest during periodontal wound healing and comfort/support in performing a function in cases of reduced/weakened periodontium. In orthodontics, the stability of the final occlusion is as important as the correction achieved. Since the beginning of the century, fixed retainers have been recommended after correction of malocclusion (rotation, crowding, space closure etc.). However, bonding a lingual wire is still challenging as it requires a long working time and has a risk of contamination from saliva and moisture which can cause bonding failure. Several techniques are used to keep the retainer wire in the proper position during direct bonding, of lingual bonded retainers. Proper placement helps prevent occlusal wear of the composite over the retainer wire, thus reducing the risk of breakage. This article describes a new chairside time-saving, reusable wire positioner that allows accurate placement and direct bonding of all types of fixed lingual retainers/periodontal splinting with solid or multistrand wires.

FIELD OF THE INVENTION

[501] Our Invention is related to a Pinnacle Positioner (PP): A Clinica Advanced Innovation

BACKGROUND OF THE INVENTION

[502] The finding in an Egyptian burial chamber of two teeth ligated by a gold wire is proof that the treatment of periodontal illness and an endeavor to save free teeth has involved the consideration of those trying to treat the oral pit starting from the beginning of written history.

[503] Expanded tooth versatility has concerned dental specialist since nineteenth 100 years. Periodontal infection disables tooth backing and allows auxiliary injury to happen.

As an outcome, teeth might slacken, and the alveolar bone might be exposed to extra harm. Consequently the decrease of portability is a significant target of periodontal treatment.

PRIOR ART SEARCH

[504] CA950293A: With s'parkignitiori-type internal-combustion engines it has been known that closing the throttle valve as for rapid deceleration of the engine decreases the amount of air intake per engine cycle and thus causes incomplete fuel combustion and hence discharge of large quantities of unburned gases into the atmosphere, which contributes to air'pollution. To overcome this situation, it 'has already been a practice to employ an air pollution preventive device principally designed to involved a deficiencythat no satisfactory reduction in engine power output cannot be obtained and this results in marked impairment of the engine brake effect, rendering the engine unable to stop quickly.

[505] US3584318A: A PROSTHESIS USED AS AN ARTIFICIAL JOINT IN THE HUMAN BONE STRUCTURE COMPRISES A BEARING MEMBER ADAPTED TO BE HELD IN A FIXED POSITION BY A CUP-SHAPED SEATING MEMBER WHICH IS ANCHORED TO THE BONE STRUCTURE. THE CONCAVE, SPHERICAL BEARING SURFACE OF THE BEARING MEMBER HAS A RELIEVED PORTION FOR RECEIVING PARTICLES OF ATTRITION FROM THE JOINT MEMBERS FORMED DURING USE OF THE JOINT AND AN OPENING FOR RELEASING THE PARTICLES FROM THE JOINT. A FEMORAL MEMBER WITH A GENERALLY SPHERICAL SHAPED HEAD HAVING A FLAT AREA TO INSURE BETTER WEARING OF THE JOINT IS MOUNTED WITHIN THE BEARING MEMBER.

OBJECTIVES OF THE INVENTION

1. The objective of the invention is to provide a “Pinnacle Positioner (PP): A Clinica Advanced Innovation” is a dental splint is an appliance designed for the immobilization or stabilization of loose/mobile teeth. Splinting provides rest during periodontal wound healing and comfort/support in performing a function in cases of reduced/weakened periodontium.
2. The other objective of the invention is to provide a orthodontics, the stability of the final occlusion is as important as the correction achieved. Since the beginning of the century, fixed retainers have been recommended after correction of malocclusion (rotation, crowding, space closure etc.).
3. The other objective of the invention is to provide a bonding a lingual wire is still challenging as it requires a long working time and has a risk of contamination from saliva and moisture which can cause bonding failure. Several techniques are used to keep the retainer wire in the proper position during direct bonding, of lingual bonded retainers.
4. The other objective of the invention is to provide a Proper placement helps prevent occlusal wear of the composite over the retainer wire, thus reducing the risk of breakage.
5. The other objective of the invention is to provide a article describes a new chairside time-saving, reusable wire positioner that allows accurate placement and direct bonding of all types of fixed lingual retainers/periodontal splinting with solid or multistrand wires.

SUMMARY OF THE INVENTION

[506] A diminishing in supporting designs of teeth or an expansion in the greatness, course, span and recurrence of powers or a mix of both may bring about tooth mobility.

[597] A modification of the portability qualities of a tooth can address a transient or a super durable change in the periodontal tissues: An expanded versatility might be related with various physiologic or pathologic peculiarity, while a diminished versatility typically is the consequence of treatment.

[508] Actual powers are applied on the periodontium, superimposing their effect on anything that neighborhood and natural elements are available.

[510] Propensities, dental apparatuses, dental techniques, and horrible effect might deliver such powers. Stresses are likewise applied during rumination, gulping, bruxism, and holding. During rumination teeth and there.

[511] Supporting designs are for the most part exposed to serious occlusal powers, upto 50 Kgs. Essential disturbance is the creation of versatility in a tooth with ordinary help exposed to a power in overabundance of physiologic cutoff points.

[512] Optional disturbance is the creation of versatility by ordinary powers in a tooth with debilitated help. At the point when nearby and natural factors, for example, irritation and metabolic aggravation are available, ordinary powers might deliver versatility in a tooth with a full rigid help.

BRIEF DESCRIPTION OF THE DIAGRAM

Fig.1: Fabrication.

Fig.2: Methodology- Step-1 to 5

Fig.3: Pinnacle Positioner placed on the model stabilizing co-axial wire from canine to canine.

Fig.4: Splinting done for periodontal compromised lower anteriors using pinnacle positioners.

Fig.5: Working of Pinnacle Positioner for orthodontic fixed lingual retainer.

DESCRIPTION OF THE INVENTION

[513] Anticipation of Periodontally Involved Teeth: The visualization of Periodontally involved teeth relies frequently upon the underlying portability and whether it very well may be adjusted by treatment.

[514] The estimation of versatility is fundamental in deciding the treatment required and in assessing the consequences of such treatment. Level of Development: The level of development is shown on an erratic size of 0 to 3 given by Mill operator 1950.

[515] A perusing of o demonstrates no distinguishable development; Score 1-portability more prominent than typical Score 2-versatility of up to 1 mm in a buccolingual course. Score 3-development of more than 1mm in a buccolingual course joined with the capacity to push down the tooth.

[516] Armamentarium used to fabricate the Pinnacle retainer positioner. a) #139 (bird beak) plier. b) 0.019-inch \times 0.025-inch SS wire (0.021-inch \times 0.025 inches can also be used) c) Used O-ring module stem. d) Wire Cutter. e) Tube sleeve.

STEP 1: Take 0.019 inch \times 0.025 inch SS wire to make a helix as shown in below Figure

STEP 2: 2mm away from the helix bend the wire on both the sides as shown in the below figure.

STEP 3: With one end of the arm, pierce the small cylindrical piece (measuring approx 4-5mm in length) and secure it by giving a V bend.

STEP 4: With the other end of the arm, bend a right angle at the end of the wire.

STEP 5: Insert the tube sleeve and secure it with the bend.

[517] the versatility of teeth is a typical grievance of patients with genuinely progressed periodontal sickness. It is brought about by a deficiency of supporting bone caused because of periodontal illness.

[518] Dental Brace is a machine intended to immobilize and balance out portable free teeth. Different strategies for supporting ought to be applied relying on guess of versatile teeth and periodontal states of encompassing teeth.

WE CLAIMS

- 1) Our Invention "Pinnacle Positioner (PP): A Clinica Advanced Innovation" is a dental splint is an appliance designed for the immobilization or stabilization of

loose/mobile teeth. Splinting provides rest during periodontal wound healing and comfort/support in performing a function in cases of reduced/weakened periodontium. In orthodontics, the stability of the final occlusion is as important as the correction achieved. Since the beginning of the century, fixed retainers have been recommended after correction of malocclusion (rotation, crowding, space closure etc.). However, bonding a lingual wire is still challenging as it requires a long working time and has a risk of contamination from saliva and moisture which can cause bonding failure. Several techniques are used to keep the retainer wire in the proper position during direct bonding, of lingual bonded retainers. Proper placement helps prevent occlusal wear of the composite over the retainer wire, thus reducing the risk of breakage. This article describes a new chairside time-saving, reusable wire positioner that allows accurate placement and direct bonding of all types of fixed lingual retainers/periodontal splinting with solid or multistrand wires.

- 2) According to claim1# the invention is to a “Pinnacle Positioner (PP): A Clinica Advanced Innovation” is a dental splint is an appliance designed for the immobilization or stabilization of loose/mobile teeth. Splinting provides rest during periodontal wound healing and comfort/support in performing a function in cases of reduced/weakened periodontium.
- 3) According to claim1,2# the invention is to a orthodontics, the stability of the final occlusion is as important as the correction achieved. Since the beginning of the century, fixed retainers have been recommended after correction of malocclusion (rotation, crowding, space closure etc.).
- 4) According to claim1,2,3# the invention is to a bonding a lingual wire is still challenging as it requires a long working time and has a risk of contamination from saliva and moisture which can cause bonding failure. Several techniques are used to keep the retainer wire in the proper position during direct bonding, of lingual bonded retainers.

- 5) According to claim1,2,3# the invention is to a Proper placement helps prevent occlusal wear of the composite over the retainer wire, thus reducing the risk of breakage.
- 6) According to claim1,3,4# the invention is to a article describes a new chairside time-saving, reusable wire positioner that allows accurate placement and direct bonding of all types of fixed lingual retainers/periodontal splinting with solid or multistrand wires.


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Declaration As To Inventorship - Form 5

Application Number: 202341014335
Date of Filing: 03/03/2023
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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 OF Address: DAYANANDA SAGAR COLLEGE OF DENTAL SCIENCES, BENGALURU

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