

APR-JUN 2024
Vol 11, Issue 2

OIL
100/1.25



جامعة الإمام عبد الرحمن بن فيصل
IMAM ABDULRAHMAN BIN FAISAL UNIVERSITY
كلية طب الأسنان | College of Dentistry

IAUDENT RESEARCH BULLETIN

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Congratulations

We congratulate Prof. Abdul Samad Khan for obtaining a patent from the US Patent and Trademark Office (USPTO).



US011957782B2

(12) **United States Patent**
Khan

(10) **Patent No.:** US 11,957,782 B2
(45) **Date of Patent:** *Apr. 16, 2024

(54) **TREATMENT METHOD FOR TEETH AND GUMS**

(58) **Field of Classification Search**
None
See application file for complete search history.

(71) Applicant: **Imam Abdulrahman Bin Faisal University, Dammam (SA)**

(56) **References Cited**

(72) Inventor: **Abdul Samad Khan, Dammam (SA)**

U.S. PATENT DOCUMENTS

(73) Assignee: **Imam Abdulrahman Bin Faisal University, Dammam (SA)**

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2014/0308219	A1	10/2014	Ibrahim

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

This patent is subject to a terminal disclaimer.

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(21) Appl. No.: **18/336,433**

CN	103445977	B	5/2016
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(22) Filed: **Jun. 16, 2023**

(65) **Prior Publication Data**

US 2023/0346687 A1 Nov. 2, 2023

OTHER PUBLICATIONS

Related U.S. Application Data

(63) Continuation of application No. 17/705,904, filed on Mar. 28, 2022, now Pat. No. 11,744,795, which is a continuation of application No. 16/252,039, filed on Jan. 18, 2019, now Pat. No. 11,318,087.

Young et al., 2016, One minute or two: how long should you brush? (Year: 2016).*

Sprinjene ; Sprinjene Natural Sensitivity Relief Cavity Protection Toothpaste with Black Seed Oil & Zinc—3.5 oz ; <https://www.vitacost.com/sprinjene-natural-sensitivity-relief-cavity-protection-tooth-paste-with-black-seed-oil-zinc>.

Taha, et al. ; The effect of bioactive glasses on enamel remineralization: A systematic review ; Journal of Dentistry, vol. 67 ; pp. 9-17 ; Dec. 2017 ; 2 Pages ; Abstract Only.

Luiza Pereira Dias da Cruz, et al. ; Dentine Tubule Occlusion by Novel Bioactive Glass-Based Toothpastes ; International Journal of Dentistry ; vol. 2018 ; Apr. 4, 2018 ; 11 Pages.

Dr. Young et al., 2016. (<https://www.equidental.com/one-minute-or-two-how-long-should-you-brush/#:~:text=Most%20dentists%20agree%20that%20two,is%20especially%20true%20for%20children.>) (Year: 2016).

(51) **Int. Cl.**
A61K 8/9789 (2017.01)
A61K 8/25 (2006.01)
A61K 8/27 (2006.01)
A61K 8/29 (2006.01)
A61K 8/34 (2006.01)
A61K 8/368 (2006.01)
A61K 8/46 (2006.01)
A61K 8/73 (2006.01)
A61Q 11/00 (2006.01)

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Primary Examiner — Celeste A Roney

(74) *Attorney, Agent, or Firm* — Oblon, McClelland, Maier & Neustadt, L.L.P.

(52) **U.S. Cl.**
CPC *A61K 8/9789* (2017.08); *A61K 8/25* (2013.01); *A61K 8/27* (2013.01); *A61K 8/29* (2013.01); *A61K 8/345* (2013.01); *A61K 8/368* (2013.01); *A61K 8/463* (2013.01); *A61K 8/731* (2013.01); *A61Q 11/00* (2013.01); *A61K 2800/28* (2013.01); *A61K 2800/48* (2013.01); *A61K 2800/524* (2013.01)

(57) **ABSTRACT**

A tooth paste composition comprising black cumin oil (*Nigella sativa*) and fluoride-doped bioactive glass, zinc oxide, and/or titanium oxide is disclosed.

5 Claims, 5 Drawing Sheets

We congratulate best intern research poster presentation award winners on the 10th Annual Dental Research Day, CoD, IAU.



Best Intern Research Poster Presentation Award

Biocompatibility and Cell Proliferative Activity of Ion-Loaded Collagen Plugs for Socket Preservation



Authors: Noor Al Sawad, Fatima Janahi, Alzahraa Alsubaie, Zahra Alshualah
Supervised by:
Dr. Afshen Tabassum, Dr. Omar Mukhtar,
Prof. Abdul Samad Khan



Best Intern Research Poster Presentation Award

Effect of Halloysite Nanotubes on the Flexural Properties and Hardness of 3D-Printed Resin after Thermal Aging: In Vitro Study



Authors: Ali Alkhatami, Shahad Alameer, Mohammed Alotaibi, Turki Alshehri
Supervised by:
Dr. Mohammed Gad



Best Intern Research Poster Presentation Award

Flexural Strength of 3D Printed Nanocomposite Provisional Resin: Impact of SiO₂ and ZrO₂ Nanoparticles and Printing Orientations in Vitro



Authors: Rawan Almedarham, Zainab Al Dawood, Fatimah Alatiyyah, Farah Alshaikhnesser, Shayma Alboryh
Supervised by:
Dr. Mohammed Gad, Dr. Maram AlGhamdi, Dr. Ahmed Elakel



Best Intern Research Poster Presentation Award

A Comparative Study of Strength and Surface Properties of Permanent 3D Printed Resins with CAD- CAM Milled Fixed Dental Prostheses



Authors: Kouthar Hashim, Hoor AlMahfoudh, Fatimah AlMahfoudh
Supervised by:
Dr. Mohammed Gad, Dr. Faisal AlQarni



Best Intern Research Poster Presentation Award

Evaluating the Efficacy of 3D Milled Zirconia Post in Oval-Shaped Canals with Different Post Lengths: An in Vitro Study



Author: Haneen Alzayer, Noor Almubarak, Lubabah Alajaj, Zahra Alsalem
Supervised by:
Dr. Haidar Alalawi, Dr. Yousif AlDulajjan, Dr. Jomana Alsenan
Dr. Soban Khan



Best Intern Research Poster Presentation Award

Evaluation of the Mechanical Properties, Surface Topographies, and Color Stability of Pink Composites



Author: Abdullah Alhashim, Ibrahim Alsaif, Hassan Alhamza, Saleh Alrashed
Supervised by:
Dr. Mohammed Gad, Dr. Hamad Alrumaih, Dr. Yousif Aldulijan,
Dr. Faris Alshahrani, Dr. Abdulrahman Balhaddad



Best Intern Research Poster Presentation Award

The Effect of Erosive/Abrasive Challenges on Enamel Topography Modulated by Different Toothpastes



Author: Shahad Alameer, Fatimah Alhassan, Razan Alghamdi, Deena Alghamdi, Sukinah Alabdulmohsin
Supervised by:
Dr. Laila Al Dehailan, Dr. Maria Ibrahim,
Dr. Abdulrahman Balhaddad



Best Intern Research Poster Presentation Award

Pediatric Patients Attendance of Dental Recall Visits after Treatment Under General Anesthesia: A Retrospective Study



Author: Abdulrahman AlQahtani, Sultan Althabit, Mathkar AlQahtani,
Abdullah Alrashed
Supervised by:
Dr. Maria Ibrahim





Best Intern Research Poster Presentation Award

The Interplay Between Toothbrush Stiffness and Charcoal-Containing Dentifrices on the Development of Enamel Topography Changes



Author: Riham Alzahrani, Fatimah Almalki, Raand Altayyar, Shahad Alotaibi
Supervised by: Dr. Laila Al Dehailan, Dr. Maria Ibrahim, Dr. Abdulrahman Balhaddad



Best Intern Research Poster Presentation Award

Evaluation of Ion-Substituted Injectable Bioactive Glass as Endodontic Sealer: An In Vitro Study



Author: Taif Alsueroor, Lujain Alkhalifah, Ferdos Alhalim, Mesk Alsaad
Supervised by: Prof Abdul Samad Khan, Dr. Asma Tufail Shah, Dr. Saad Bin Qasim, Dr. Suriya Rehman, Dr. Faraz Farooqi



We congratulate best student research poster presentation and research presentation award winners on the 10th Annual Dental Research Day, CoD, IAU.



Best Student Research Poster Presentation Award

Development of Novel Functionalized Thiazole-Based Thiourea Analogues as Dual of A-amylase and A-glucosidase Enzyme Inhibitors for Oral Side Effects Control in Patients with Type-II Diabetes: An in Silico Molecular Docking Analysis



Authors: Faisal Alharamlah
Supervised by: Dr. Muhammed Taha, Dr. Muhammed Nawaz



Best Student Research Poster Presentation Award

Benzyltrimethylammonium Chloride Doped Dental Denture-based Resins: Impact on Strength, Surface Properties, Antifungal Activities



Authors: Fatimah Alhassan, Raghad Alruwili, Rawan Almulaify
Supervised by: Dr. Abdulrahman Balhaddad, Dr. Yousif AlDulajjan, Dr. Mohammed Gad, Dr. Faris Alshahrani



Best Student Research Poster Presentation Award

Assessment of Bacterial Leakage: Comparison Between MTA, Bio-c Repair and Neoputty in Term of Sealing Ability for Repair of Furcal Perforations: In Vitro Study



Authors: Khawla Mohammed, Areeb Alotaibi, Esraa Alqattan, Zainab Alzayir
Supervised by: Dr. Maria Ibrahim, Dr. Faisal Alonazan



Best Student Research Poster Presentation Award

Impact of Nanoparticles Addition on Surface and Color Properties of 3-Dimensional (3D) Printed Polymer-based Provisional Restoration



Authors: Rawan Almedarham, Zainab Al Dawood, Fatimah Alatiyyah, Farah Alshaikhnesser, Shayma Alboryh
Supervised by: Dr. Mohammed Gad, Dr. Maram AlGhamdi, Dr. Reem Abualsaud



Best Student Research Poster Presentation Award

Development, Remineralization, and Antimicrobial Abilities of ICON Resin Infiltrants Containin Copper- and Cerium Nanohydroxyapatite (nHA): An in Vitro Study



Authors: Abdullah Aldarisi, Ali Alibrahim, Adnan Alsaif
Supervised by: Dr. Maria Ibrahim, Dr. Malik Bin Farraj, Prof. Abdul Samad Khan





Best 6th Year Student Research Presentation Award

Parental Perspectives on Barriers to Pediatric Oral Health Care: Association with Children's and Families Characteristics in Eastern Providence



Authors: Areeb Alotaibi, Israa Alkhalifa, Hibah Alhawaj
Supervised by:
Dr. Balgis Gaffar



Best 6th Year Student Research Presentation Award

Assessing the Mechanical Properties, Polymerization Kinetics, and Aesthetic Features of Anterior Resin-based Composites



Authors: Leena Bin-Jardan, Dalal Almadani, Leen Almutairi,
Hadi Almoabid, Mohammed Alesla
Supervised by:
Dr. Abdulrahman A. Balhaddad



Best 6th Year Student Research Presentation Award

ICON Resin Infiltrant Containing Copper and Cerium to Prevent Enamel White Spot Lesions (WSL)



Authors: Abdullah Aldarisi, Ali Alibrahim, Adnan Alsaif
Supervised by:
Dr. Maria Ibrahim, Dr. Malik Bin Farraj, Prof. Abdul Samad Khan



Best 6th Year Student Research Presentation Award

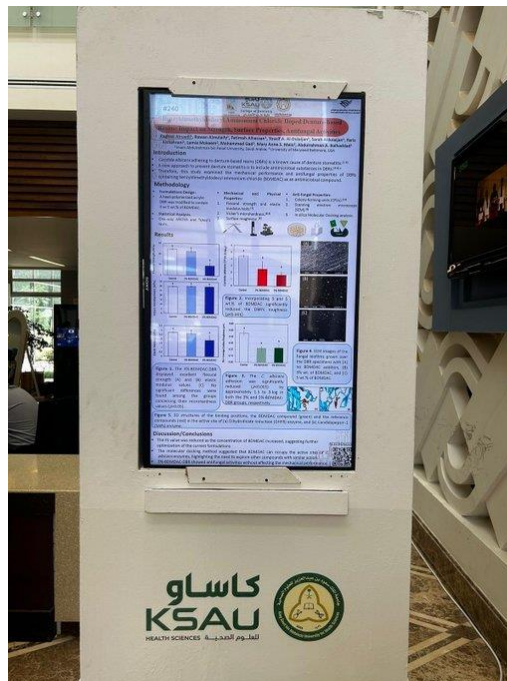
Assessing Suturing Knowledge and Efficacy of Digital Pedagogy: A Pre/Post Test Analysis of Video Tutorials Use in Dentistry



Authors: Rawan Almulaify, Nourah Alsudairi, Arwa Bashammakh
Supervised by:
Dr. Marwa Madi



We congratulate Raghad Alruwili, Fatimah Alhassan, and Rawan Almulaify for winning 2nd place in the poster presentation competition in Career and Research Day 2024, King Saud bin Abdulaziz University for health sciences.



Presentations

We congratulate Atheer Alabdullatif, Zainab Albazroun, Sarah Aldhalib, and Ferdoos alhalimi for presenting in the ICDS (International Dental Students Conference) In Kuala Lumpur - Malaysia Supervised by Dr. Mohammed Gad.



CoD faculty Prof. Abdul Samad Khan did oral presentation in 1st International KCD-Con 2024, Pakistan and Symposium and Workshop on Translational Research in Advanced Materials, Qatar.



CoD faculty Dr. Saqib Ali did oral presentation in 1st Interantional Khyber College of Dentisty Conference, Pakistan.



CoD students Faisal alharamlah and Aminah Alsayoud presented posters in 8th HPC Research Competition, Riyadh and Career and Research Day at KSAU-HS, Riyadh, respectively.

We congratulate the following CoD PG students for presenting their graduating research projects.

Fellowship in Endodontics	Mohammed Abduljawad
	Abdullah Albeladi
	Mohammed Algharni
	Fawaz Altuwaijri
	Mulham Almaliki
	Abdurrahman Assalman
Fellowship in Periodontics	Bader Alzaben
	Nora Aloatibi
	Aminah Alesavy
	Marwa Alalshaikh
Fellowship in Prosthodontics	Abdullah Alfayez
	Abdulrahman Aldakhili
	Tahani Abushowmi
	Anwar Alramdhan

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- 2 [The effect of beverage temperature on the surface roughness, microhardness, and color stability of the monoshade composite resin: An in vitro study.](#)
AlSheikh R, Almajed Y, Al Eid F, Zainaldeen S, Siddiqui I, Gaffar B.
Saudi Dent J. 2024 May;36(5):740-744.
Indexing: Scopus: ● Web of Science: ● PubMed: ●
- 3 [In Vitro Evaluation of Candida albicans Adhesion and Related Surface Properties of CAD/CAM Denture Base Resins.](#)
Fouda SM, Gad MM, Abualsaud R, Ellakany P, AlRumaih HS, Farooqi FA, Matin A, Al-Eraky DM, Al-Qarni FD, Al-Harbi FA.
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- 4 [Modulation of gene expression and bone formation by expanded and dense polytetrafluoroethylene membranes during guided bone regeneration: An experimental study.](#)
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- 5 [Prevalence of canine impaction in different cities of Saudi Arabia: A systematic review.](#)
Alamri A, Alqanas S, Aljar Y, Alqahtani F, Ahmed S.
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- 6 [Comparative analysis of dimensional changes in autoclavable polyvinyl siloxane \(PVS\) impressions under various Sterilization/Disinfection Protocols: A randomized controlled trial.](#)
Taymour N, Hussein Abdel Kader S, Aboushelib MN, Gad MM.
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- 7 [Associations between maxillary labial frenum Morphology, Attachment, and Patient-Related clinical factors in Saudi Arabian Adults: Cross-sectional study.](#) **Madi M, Alamri A, Aleisa D, Almusallam O, AlQahtani S, Al-Aql ZS, Alagl AS.**
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- 8 [Navigating the practical-knowledge gap in deep margin elevation: A step towards a structured case selection - a review.](#)
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Al-Subaie A, Kamaraj B, Ahmad F, Alsamman K.
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- 25 [The Use of Instagram Among Dental Patients in Saudi Arabia.](#)
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- 27 [Effect of Different Primers on the Shear Bond Strength of Orthodontic Brackets Bonded to Reinforced Polyetheretherketone \(PEEK\) Substrate.](#)
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29. [Effect of Dietary Simulating Solvents on the CAD-CAM Provisional Restorative Materials' Microhardness and Color Stability Properties: An in vitro Study.](#)
Alalawi H, Al-Qanas S, Al-Ghamdi S, Al-Fuhaid R, Khan S, AlGhamdi MA, Almulhim KS, Aljofi FE, Khan ZA, Al-Dulaijan YA.
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INDEXED UG STUDENT PUBLICATIONS

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For further information and comments,
please contact Tel: 013-33-31510 | Email: vdpg.dent@iau.edu.sa